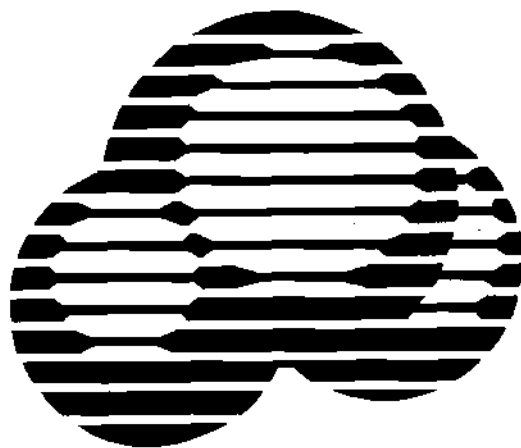


8th grade



**MATERIAL SAFETY DATA SHEETS (MSDS)  
FOR  
ISSUES AND EARTH SCIENCE**

**LaB-aids®**  
INCORPORATED

17 Colt Court, Ronkonkoma, New York 11779

## **Environmental Impact Material Safety Data Sheets**

### **LIMIT OF LIABILITY - NO WARRANTY**

#### **DISCLAIMER**

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Material listed in these MSDS are classified in accordance with the definitions set forth in 29CFR parts 1915, 1916 and 1917.

Dated: 7/11/00

**LAB-AIDS, INC.  
17 Colt Court  
Ronkonkoma, NY 11779**

07/02/1997

CHEMICAL NAME & SYNONYMS -	<b>Fine Sand</b>
CAS No.(s) -	14808-60-7
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence & You, Issues and Earth Science
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: majority usually is silicon dioxide (SiO <sub>2</sub> )
APPEARANCE AND ODOR -	Colorless or tan colored crystals
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not dispense sand into air other than what activity procedure describes.
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Vacuum the material
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Eye contact: Wash with water for 15 min. If irritation persists seek medical attention. Inhalation: if there is gross inhalation of sand remove the person to fresh air, seek medical attention as needed.

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ITEM NO. EHR-1-7E

11/12/2002

CHEMICAL NAME & SYNONYMS -	<b>Red Food Coloring</b> (7% solution)
CAS No.(s) -	7732-18-5; 25956-17-6; 77-92-9; 532-32-1
USED IN LAB-AIDS KIT # ('s) -	Waste Disposal: Computers and the Environment, Issues and Earth Science
FORMULA -	Mixture
FORMULA WEIGHT (FW.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Water, Red food coloring, citric acid, benzoate of soda
APPEARANCE AND ODOR -	Dark red liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid skin contact
HEALTH HAZARDS - (IF ANY)	It will stain skin. All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with suitable material
DISPOSAL METHOD -	Flush down drain if connected to a sewer line. If not, place in the trash
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water For Eyes: Wash continuously for 15 min., see physician

07/02/1997

CHEMICAL NAME & SYNONYMS -	<b>Brom Thymol Blue Indicator</b> (.1% solution)
CAS No.(s) -	7732-18-5; 0076-59-5; 1319-63-2
USED IN LAB-AIDS KIT # (s) -	12-03, 12-13, 80, 81R, 100A, FA-1, WH-1, SALLI, Issues and Earth Science
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture/Solution
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	An indicator solution. pH 6.0 yellow to 7.6 blue. A water based solution
APPEARANCE AND ODOR -	Odorless blue liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	None, except to practice prudent laboratory procedures
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable, non combustible
SPILLS AND LEAKS -	Absorb with suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	None
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician For Eyes: Wash continuously for 15 min., see physician

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ITEM NO. HC-2B12E

08/23/2002

CHEMICAL NAME & SYNONYMS -	Mineral Oil
CAS No.(s) -	08042-47-5
USED IN LAB-AIDS KIT # ('s) -	Hazardous Material Investigation, Issues and Earth Science
FORMULA -	Hydrocarbon
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp.Gr. 0.845-0.860 Only slightly soluble in water
APPEARANCE AND ODOR -	White, transparent fluid; odorless
INCOMPATIBILITY - (MATERIALS TO AVOID)	Chlorine; Nitric Acid; Strong oxidizers and Oxygen.
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	Material considered non-hazardous, however, all of its characteristics may not have been investigated.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Combustible liquid; use Triclass, dry chemical fire extinguisher, foam or carbon dioxide
SPIILLS AND LEAKS -	Absorb w/sand or vermiculite and place in a cardboard box for disposal
DISPOSAL METHOD -	All disposals must comply with federal, state and local regulations. Waste material may be landfilled or incinerated at an approved facility.
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

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ITEM NO. IAES-B002

09/15/2006

CHEMICAL NAME & SYNONYMS -	0.5M Hydrochloric Acid
CAS No.(s) -	7732-18-5; 7647-01-0
USED IN LAB-AIDS KIT # ('s) -	Science and Sustainability, Issues and Earth Science
FORMULA -	HCl
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Fully miscible in water
APPEARANCE AND ODOR -	Clear liquid, slight pungent odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidants
HAZARD CLASS -	Corrosive liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Strong oxidants. Avoid body contact.
HEALTH HAZARDS - (IF ANY)	Slight irritant to body tissues.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with sand or vermiculite and place in a suitable container
DISPOSAL METHOD -	Dilute with 20 x water. Add sodium carbonate or baking soda. Bring pH to neutral and flush the solution down the drain.
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician Respiratory: Transport to fresh air

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ITEM NO. IAES-B001

09/15/2006

CHEMICAL NAME & SYNONYMS -	0.2 M Potassium Permanganate Solution
CAS No.(s) -	7732-18-5; 7722-64-7
USED IN LAB-AIDS KIT # ('s) -	Issues and Earth Science
FORMULA -	KMnO <sub>4</sub>
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Potassium Permanganate and water
APPEARANCE AND ODOR -	Purple and odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid skin contact
HEALTH HAZARDS - (IF ANY)	It will stain skin. May be toxic by ingestion.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with sand or vermiculite and place in a suitable container
DISPOSAL METHOD -	Place container in a landfill site
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical splash safety goggles Avoid strong heating
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician



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ITEM NO. IAES-B003

09/15/2006

CHEMICAL NAME & SYNONYMS -	<b>Bentonite</b>
CAS No.(s) -	1302-78-9
USED IN LAB-AIDS KIT # ('s) -	Issues and Earth Science
FORMULA -	N/A
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: silicon dioxide (SiO <sub>2</sub> )
APPEARANCE AND ODOR -	White powder
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse bentonite into air other than what activity procedure describes.
HEALTH HAZARDS - (IF ANY)	May cause slight eye irritation, short term exposure to high dust levels could cause minor irritation.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	ACGIH TWA .1mg/cu.m. ACGIH STEL N/A
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Vacuum the material.
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: wash off with soap and water, Inhalation: remove person to fresh air. Eye: flush with water for 15min. Seek medical attention if shortness of breath or irritation persists.

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ITEM NO. IAES-B004

08/23/2002

CHEMICAL NAME & SYNONYMS -	Baking Soda (Sodium Bicarbonate)
CAS No.(s) -	0144-55-8
USED IN LAB-AIDS KIT # (s) -	Household Chemical: Better by Design, Issues and Earth Science
FORMULA -	NaHCO <sub>3</sub>
FORMULA WEIGHT (FW.) -	84.01 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 2.159 Soluble in water, no alcohol
APPEARANCE AND ODOR -	White powder or crystals
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE (DANGEROUS))	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

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ITEM NO. IAES-B005

09/15/2006

CHEMICAL NAME & SYNONYMS -	Less Gassy "Magma" (2.4% Acetic Acid)
CAS No.(s) -	7732-18-5, 0064-19-7, 9000-30-0, 25956-17-6
USED IN LAB-AIDS KIT # ('s) -	Issues and Earth Science
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Glacial acetic acid in water, red color and guar gum.
APPEARANCE AND ODOR -	Viscous red liquid with smell of vinegar
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid eye contact
HEALTH HAZARDS - (IF ANY)	May be irritating to the eyes
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with a paper towel or other suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical splash safety goggles
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician For Eyes: Wash continuously for 15 min., see physician

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ITEM NO. IAES-B006

09/15/2006

CHEMICAL NAME & SYNONYMS -	More Gassy "Magma" (4.7% Acetic Acid)
CAS No.(s) -	7732-18-5; 0064-19-7
USED IN LAB-AIDS KIT # ('s) -	Household Chemical: Better by Design, Issues and Earth Science
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Glacial acetic acid in water.
APPEARANCE AND ODOR -	Clear liquid with a strong smell of acetic acid
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid eye contact
HEALTH HAZARDS - (IF ANY)	May be irritating to the eyes
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with a paper towel or other suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical splash safety goggles
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician For Eyes: Wash continuously for 15 min., see physician

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ITEM NO. IAES-B007

09/15/2006

CHEMICAL NAME & SYNONYMS -	Calcium Chloride, Dihydrate, Flakes
CAS No.(s) -	10035-04-8
USED IN LAB-AIDS KIT # ('s) -	Science and Sustainability, Issues and Earth Science
FORMULA -	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
FORMULA WEIGHT (F.W.) -	147 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Soluble in water. Melting Point: 772 C Specific Gravity: .835
APPEARANCE AND ODOR -	White flakes; no odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong acids. Sulfuric acid: yields hydrogen gas, which is corrosive, irritating and reactive.
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid contact with eyes, skin or clothing. Avoid breathing dust or mist. Practice good laboratory procedure.
HEALTH HAZARDS - (IF ANY)	May irritate or burn eyes. Dust or mist may irritate nose, throat and lungs. Under prolonged contact or when moisture is present, superficial burns may result.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable, Non combustible
SPILLS AND LEAKS -	Gather up the material and place in a suitable container
DISPOSAL METHOD -	Place container in a landfill site. Local regulations should be consulted about exactly what you can and cannot place in the landfill in your area.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS))	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician immediately For Eyes: Wash continuously for 15 min., see physician if necessary Never give anything by mouth to unconscious person

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ITEM NO. IAES-P001

09/15/2006

CHEMICAL NAME & SYNONYMS -	Soil A
CAS No.(s) -	14808-60-7
USED IN LAB-AIDS KIT # ('s) -	Issues and Earth Science
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: majority usually is silicon dioxide (SiO <sub>2</sub> )
APPEARANCE AND ODOR -	Brownish color, powder to granular appearance
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into air other than what activity procedure describes.
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Vacuum the material
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE DANGEROUS)	Eye contact: Wash with water for 15 min. If irritation persists seek medical attention. Inhalation: if there is gross inhalation of sand remove the person to fresh air, seek medical attention as needed.

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ITEM NO. IAES-P002

09/15/2006

CHEMICAL NAME & SYNONYMS -	Soil B
CAS No.(s) -	N/A
USED IN LAB-AIDS KIT # ('s) -	Issues and Earth Science
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: organic material
APPEARANCE AND ODOR -	Charcoal color with fibrous constituents
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into air other than what activity procedure describes.
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Vacuum the material
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Eye contact: Wash with water for 15 min. If irritation persists seek medical attention. Inhalation: if there is gross inhalation of sand remove the person to fresh air, seek medical attention as needed.

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ITEM NO. IAES-P010

09/15/2006

CHEMICAL NAME & SYNONYMS -	Copper Strips
CAS No.(s) -	7440-50-8
USED IN LAB-AIDS KIT # (s) -	Issues and Earth Science
FORMULA -	Cu
FORMULA WEIGHT (FW.) -	63.55 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Ductile metal, insoluble in water, soluble in nitric acid
APPEARANCE AND ODOR -	Reddish-brown colored metal, odorless
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid acids, bases and oxidizers
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	None
HEALTH HAZARDS - (IF ANY)	Material considered to be non-hazardous
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD -	Dispose of in accordance with federal, state and local regulations
SPECIAL PRECAUTIONS - (IF ANY)	Prudent laboratory practice
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A



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ITEM NO. IAES-P028

09/15/2006

CHEMICAL NAME & SYNONYMS -	Sand Mixture
CAS No.(s) -	14808-60-7
USED IN LAB-AIDS KIT # (s) -	Issues and Earth Science
FORMULA -	Mixture
FORMULA WEIGHT (FW.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: mainly quartz (silicon dioxide SiO <sub>2</sub> )
APPEARANCE AND ODOR -	Rusty appearance, granular structure
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into air other than what activity procedure describes.
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Vacuum the material
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE DANGEROUS)	Eye contact: Wash with water for 15 min. If irritation persists seek medical attention. Inhalation: if there is gross inhalation of sand remove the person to fresh air, seek medical attention as needed.

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ITEM NO. IAES-P029

09/15/2006

CHEMICAL NAME & SYNONYMS -	Earth Material A
CAS No.(s) -	14808-60-7; 1302-78-9
USED IN LAB-AIDS KIT # ('s) -	Issues and Earth Science
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: quartz (silicon dioxide SiO <sub>2</sub> ), gravel, bentonite
APPEARANCE AND ODOR -	White and pink granular appearance with gravel pieces
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into air other than what activity procedure describes.
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Vacuum the material
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Eye contact: Wash with water for 15 min. If irritation persists seek medical attention. Inhalation: if there is gross inhalation of sand remove the person to fresh air, seek medical attention as needed.

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ITEM NO. IAES-P030

09/15/2006

CHEMICAL NAME & SYNONYMS -	Earth Material B
CAS No.(s) -	14808-60-7
USED IN LAB-AIDS KIT # ('s) -	Issues and Earth Science
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: mainly quartz (silicon dioxide SiO <sub>2</sub> )
APPEARANCE AND ODOR -	Rusty appearance, granular structure
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into air other than what activity procedure describes.
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Vacuum the material
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Eye contact: Wash with water for 15 min. If irritation persists seek medical attention. Inhalation: if there is gross inhalation of sand remove the person to fresh air, seek medical attention as needed.

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ITEM NO. IAES-P031

09/15/2006

CHEMICAL NAME & SYNONYMS -	Earth Material C
CAS No.(s) -	14808-60-7
USED IN LAB-AIDS KIT # ('s) -	Issues and Earth Science
FORMULA -	Mixture
FORMULA WEIGHT (FW.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: quartz (silicon dioxide SiO <sub>2</sub> ) and organic matter
APPEARANCE AND ODOR -	Rusty appearance with fibrous constituents
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into air other than what activity procedure describes.
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPLILLS AND LEAKS -	Vacuum the material
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Eye contact: Wash with water for 15 min. If irritation persists seek medical attention. Inhalation: if there is gross inhalation of sand remove the person to fresh air, seek medical attention as needed.

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**MATERIAL SAFETY DATA SHEET**

ITEM NO. IAES-P032

09/15/2006

CHEMICAL NAME & SYNONYMS -	Sphagnum, Chopped
CAS No.(s) -	N/A
USED IN LAB-AIDS KIT # ('s) -	Issues and Earth Science
FORMULA -	N/A
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: organic material
APPEARANCE AND ODOR -	Brown color, fibrous constituents
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into air other than what activity procedure describes.
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Vacuum the material
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Eye contact: Wash with water for 15 min. If irritation persists seek medical attention. Inhalation: if there is gross inhalation of sand remove the person to fresh air, seek medical attention as needed.

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ITEM NO. IAES-P033

06/01/2000

CHEMICAL NAME & SYNONYMS -	Gravel
CAS No.(s) -	N/A
USED IN LAB-AIDS KIT # ('s) -	FV-1, WH-1, Science and Sustainability, Issues and Earth Science
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: mainly quartz and sand
APPEARANCE AND ODOR -	Various sized pebbles and sand mixture
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

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ITEM NO. SA-1B03E

04/12/2001

CHEMICAL NAME & SYNONYMS -	Blue Food Coloring (1.5% solution)
CAS No.(s) -	7732-18-5; 3844-45-9
USED IN LAB-AIDS KIT # ('s) -	Science and Life Issues, Issues and Earth Science
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: water and blue food coloring
APPEARANCE AND ODOR -	Blue liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid skin contact
HEALTH HAZARDS - (IF ANY)	It will stain skin. All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with suitable material
DISPOSAL METHOD -	Flush down drain if connected to a sewer line. If not, place in the trash.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles.
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water For Eyes: Wash continuously for 15 min., see physician

**Lab-aids**  
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ITEM NO. SP-2B04E

06/01/2000

CHEMICAL NAME & SYNONYMS -	Sodium Chloride
CAS No.(s) -	7647-14-5
USED IN LAB-AIDS KIT # (s) -	Science and Sustainability, Issues and Earth Science
FORMULA -	NaCl
FORMULA WEIGHT (F.W.) -	58 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Density 2.16g/cm <sup>3</sup> , solubility 35.9g/100ml of water at 25C
APPEARANCE AND ODOR -	White powder or crystals
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb with sand or vermiculite and place in a suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS))	For Eyes: Wash continuously for 15 min., see physician



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ITEM NO. SS-1B26E

06/01/2000

CHEMICAL NAME & SYNONYMS -	Denatured Alcohol
CAS No.(s) -	0064-17-5; 7732-18-5; 0141-78-6; 0067-56-1; 0108-10-1
USED IN LAB-AIDS KIT # ('s) -	Science and Sustainability, Issues and Earth Science
FORMULA -	N/A
FORMULA WEIGHT (FW.) -	Mixture of alcohols
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Alcohol, ethyl is denatured
APPEARANCE AND ODOR -	Clear liquid; strong alcohol odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Flammable liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Heat, spark, open flame. Avoid inhaling fumes
HEALTH HAZARDS - (IF ANY)	Vapor toxic
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1000 ppm in air
FIRE HAZARDS - (IF ANY)	Flammable, use Triclass dry chemical fire extinguisher
SPILLS AND LEAKS -	Absorb with sand or vermiculite and place in a suitable container
DISPOSAL METHOD -	All disposals must comply with federal, state and local regulations. Waste material may be landfilled or incinerated at an approved facility.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles and fume hood
FIRST AID - (IF SUBSTANCE (DANGEROUS))	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician Respiratory: Transport to fresh air

04/12/01

CHEMICAL NAME & SYNONYMS -	Agar
CAS No.(s) -	9002-18-0
USED IN LAB-AIDS KIT # ('S) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture
FORMULA WEIGHT (FW.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Soluble in boiling water
APPEARANCE AND ODOR -	Pale yellow with characteristic odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Non-hazardous organic material
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	None, except to practice prudent laboratory procedures
HEALTH HAZARDS - (IF ANY)	Material considered non-hazardous All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	May absorb with a paper towel and throw in trash
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician For Eyes: Wash continuously for 15 min., see physician

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ITEM NO. CH-2-21

04/12/01

CHEMICAL NAME & SYNONYMS -	Vinegar, 5% Acetic Acid
CAS No.(s) -	7732-18-5; 0064-19-7
USED IN LAB-AIDS KIT # (s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Glacial acetic acid in water.
APPEARANCE AND ODOR -	Clear liquid with a strong smell of acetic acid
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid eye contact
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid eye contact
HEALTH HAZARDS - (IF ANY)	May be irritating to the eyes
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with a paper towel or other suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS))	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician For Eyes: Wash continuously for 15 min., see physician

04/12/01

CHEMICAL NAME & SYNONYMS -	Lugols Solution (3% Iodine and 8.33% Potassium Iodide)
CAS No.(s) -	7732-18-5; 7681-11-0; 7553-56-2
USED IN LAB-AIDS KIT # (s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (FW.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Iodine, potassium iodide and water
APPEARANCE AND ODOR -	Deep brown-colored liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	May be toxic by ingestion and an irritant to the skin
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb w/ sand or vermiculite and place in a suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical splash safety goggles
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician For Eyes: Wash continuously for 15 min., see physician

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ITEM NO. SA-1B01

04/12/01

CHEMICAL NAME & SYNONYMS -	Sand
CAS No.(s) -	N/A
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: majority usually is silicon dioxide (SiO <sub>2</sub> )
APPEARANCE AND ODOR -	Colorless or tan colored crystals
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS))	N/A

04/12/01

CHEMICAL NAME & SYNONYMS -	Blue Food Coloring (1.532% Blue Food Coloring)
CAS No.(s) -	N/A
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consist of: Water and Blue food coloring
APPEARANCE AND ODOR -	Blue liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	None
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb with suitable material
DISPOSAL METHOD -	Flush down drain if connected to a sewer line. If not, place in the trash.
SPECIAL PRECAUTIONS - (IF ANY)	Avoid contact with eyes
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water For Eyes: Wash continuously for 15 min., see physician

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ITEM NO. SA-1B05

04/12/01

CHEMICAL NAME & SYNONYMS -	Miriam Distilled Water
CAS No.(s) -	7732-18-5
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	H <sub>2</sub> O
FORMULA WEIGHT (F.W.) -	18.016
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 1.00
APPEARANCE AND ODOR -	Colorless, odorless, tasteless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	Non-hazardous materials
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	N/A
SPIILLS AND LEAKS -	N/A
DISPOSAL METHOD -	N/A
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

N/A - NOT APPLICABLE

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ITEM NO. SA-1B06

04/12/01

CHEMICAL NAME & SYNONYMS -	Alexender Distilled Water
CAS No.(s) -	7732-18-5
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	H <sub>2</sub> O
FORMULA WEIGHT (F.W.) -	18.016
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 1.00
APPEARANCE AND ODOR -	Colorless, odorless, tasteless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	Non-hazardous materials
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	N/A
SPILLS AND LEAKS -	N/A
DISPOSAL METHOD -	N/A
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A



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ITEM NO. SA-1B07

04/12/01

CHEMICAL NAME & SYNONYMS -	Ms. Shah Sodium Carbonate solution, 1%
CAS No.(s) -	7732-18-5; 0497-19-8
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: sodium carbonate and water
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb with any suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

04/12/01

CHEMICAL NAME & SYNONYMS -	Ed Sodium Carbonate solution, 1%
CAS No.(s) -	7732-18-5; 0497-19-8
USED IN LAB-AIDS KIT # (s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: sodium carbonate and water
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with any suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

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ITEM NO. SA-1B09

04/12/01

CHEMICAL NAME & SYNONYMS -	Mr. Klasky Sodium Carbonate solution, 1%
CAS No.(s) -	7732-18-5; 0497-19-8
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: sodium carbonate and water
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb with any suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

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ITEM NO. SA-1B10

04/12/01

CHEMICAL NAME & SYNONYMS -	Heather Sodium Carbonate solution, 1%
CAS No.(s) -	7732-18-5; 0497-19-8
USED IN LAB-AIDS KIT # (s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: sodium carbonate and water
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with any suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

N/A - NOT APPLICABLE

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ITEM NO. SA-1B11

04/12/01

CHEMICAL NAME & SYNONYMS -	Laura Sodium Carbonate solution, 1%
CAS No.(s) -	7732-18-5; 0497-19-8
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: sodium carbonate and water
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb with any suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

**LaB-aids**  
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ITEM NO. SA-1B12

04/12/01

CHEMICAL NAME & SYNONYMS -	Mr. Milligan Sodium Carbonate solution, 1%
CAS No.(s) -	7732-18-5; 0497-19-8
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (FW.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: sodium carbonate and water
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with any suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

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ITEM NO. SA-1B13

04/12/01

CHEMICAL NAME & SYNONYMS -	Jordan Blood Serum Type AB Distilled water with 0.015% yellow dye base
CAS No.(s) -	7732-18-5
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	H <sub>2</sub> O
FORMULA WEIGHT (F.W.) -	18.016
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 1.00
APPEARANCE AND ODOR -	yellow color liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	Non-hazardous materials
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	N/A
SPIILLS AND LEAKS -	N/A
DISPOSAL METHOD -	N/A
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

N/A - NOT APPLICABLE

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ITEM NO. SA-1B14

04/12/01

CHEMICAL NAME & SYNONYMS -	Donated Blood Type A 10% Calcium Chloride Solution with 0.213% Red Food Coloring
CAS No.(s) -	7732-18-5; 10043-52-4
USED IN LAB-AIDS KIT # (s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Calcium Chloride, red food coloring and water
APPEARANCE AND ODOR -	Red solution with a very mild characteristic Calcium Chloride
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid contact with organic material
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact
HEALTH HAZARDS - (IF ANY)	Slight irritant to body tissues
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb w/ sand or vermiculite and place in suitable container
DISPOSAL METHOD -	Place container in a landfill site
SPECIAL PRECAUTIONS - (IF ANY)	Wear chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician



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## MATERIAL SAFETY DATA SHEET

ITEM NO. SA-1B15

04/12/01

CHEMICAL NAME & SYNONYMS -	Donated Blood Type B 10% Sodium Carbonate with 0.213% Red Food Coloring
CAS No.(s) -	7732-18-5; 497-19-8
USED IN LAB-AIDS KIT # (s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Sodium Carbonate, red dye and water
APPEARANCE AND ODOR -	Red color liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	None
HEALTH HAZARDS - (IF ANY)	May be toxic by ingestion
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb w/ sand or vermiculite and place in suitable container
DISPOSAL METHOD -	Place container in a landfill site
SPECIAL PRECAUTIONS - (IF ANY)	Wear chemical splash safety goggles Avoid strong heating
FIRST AID - (IF SUBSTANCE (DANGEROUS))	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

**Lab-aids**  
INCORPORATED  
MATERIAL SAFETY DATA SHEET

ITEM NO. SA-1B16

04/12/01

CHEMICAL NAME & SYNONYMS -	Donated Blood Type O Distilled Water with 0.213% Red Food Coloring
CAS No.(s) -	7732-18-5
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	H <sub>2</sub> O
FORMULA WEIGHT (F.W.) -	18.016
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 1.00
APPEARANCE AND ODOR -	Red color liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	Non-hazardous materials
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	N/A
SPIILLS AND LEAKS -	N/A
DISPOSAL METHOD -	N/A
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE DANGEROUS)	N/A

**Lab-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. SA-1B17

04/12/01

CHEMICAL NAME & SYNONYMS -	Sasha Blood Serum Type A 10% Calcium Chloride with 0.3% yellow food coloring
CAS No.(s) -	7732-18-5; 10043-52-4
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Calcium Chloride, yellow dye and water
APPEARANCE AND ODOR -	Red solution with a very mild characteristic Calcium Chloride
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid contact with organic material
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact
HEALTH HAZARDS - (IF ANY)	Slight irritant to body tissues
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb w/ sand or vermiculite and place in suitable container
DISPOSAL METHOD -	Place container in a landfill site
SPECIAL PRECAUTIONS - (IF ANY)	Wear chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

**Lab-aids**  
INCORPORATED  
**MATERIAL SAFETY DATA SHEET**

ITEM NO. SA-1B18

04/12/01

CHEMICAL NAME & SYNONYMS -	Fong's Blood Serum Type B 10% Sodium Carbonate with 0.3% yellow food coloring
CAS No.(s) -	7732-18-5; 497-19-8
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/solution
FORMULA WEIGHT (FW.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Sodium Carbonate, yellow dye and water
APPEARANCE AND ODOR -	Yellow color liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	None
HEALTH HAZARDS - (IF ANY)	May be toxic by ingestion
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb w/ sand or vermiculite and place in suitable container
DISPOSAL METHOD -	Place container in a landfill site
SPECIAL PRECAUTIONS - (IF ANY)	Wear chemical splash safety goggles Avoid strong heating
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

# Lab-aids

INCORPORATED

## MATERIAL SAFETY DATA SHEET

ITEM NO. SA-1B19

04/12/01

CHEMICAL NAME & SYNONYMS -	Disease Indicator (70% Isopropyl Alcohol, 0.5% Phenolphthalein)
CAS No.(s) -	7732-18-5; 0064-17-5; 0077-09-8
USED IN LAB-AIDS KIT # (s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Phenolphthalein dissolved in denatured alcohol and diluted with water.
APPEARANCE AND ODOR -	Colorless in neutral or acid solution; pink to deep red in the presence of alkali.
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	May be toxic if ingested
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Flammable, use Triclass dry chemical fire extinguisher
SPIILLS AND LEAKS -	Absorb with vermiculite or sand. Follow procedure outlined in disposal method
DISPOSAL METHOD -	Place absorbed material in trash or in any approved landfill site.
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician For Eyes: Wash continuously for 15 minutes, see physician

04/12/01

CHEMICAL NAME & SYNONYMS -	<b>Phenolphthalein</b> <b>(70% Isopropyl Alcohol, 0.5% Phenolphthalein)</b>
CAS No.(s) -	7732-18-5; 0064-17-5; 0077-09-8
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Phenolphthalein dissolved in denatured alcohol and diluted with water.
APPEARANCE AND ODOR -	Colorless in neutral or acid solution; pink to deep red in the presence of alkali.
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	May be toxic if ingested
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Flammable, use Triclass dry chemical fire extinguisher
SPIILLS AND LEAKS -	Absorb with vermiculite or sand. Follow procedure outlined in disposal method
DISPOSAL METHOD -	Place absorbed material in trash or in any approved landfill site.
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE IS DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician For Eyes: Wash continuously for 15 minutes, see physician

**Lab-aids**  
INCORPORATED  
**MATERIAL SAFETY DATA SHEET**

ITEM NO. SA-1B21

04/12/01

CHEMICAL NAME & SYNONYMS -	Hydrochloric Acid, 0.1 M
CAS No.(s) -	7732-18-5; 7647-01-0
USED IN LAB-AIDS KIT # (s) -	SCIENCE AND LIFE ISSUES
FORMULA -	HCl
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: water and hydrochloric acid
APPEARANCE AND ODOR -	Clear liquid, slight pungent odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidants
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Strong oxidants. Avoid breathing vapor. Avoid body contact.
HEALTH HAZARDS - (IF ANY)	Slight irritant to body tissues
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb w/ sand or vermiculite and place in suitable container
DISPOSAL METHOD -	Dilute with 20 X water. Add sodium carbonate solution and flush in drain
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical splash safety goggles
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician Respiratory: Transport to fresh air

**LaB-aids**  
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ITEM NO. SA-1B22

04/12/01

CHEMICAL NAME & SYNONYMS -	0.1 M Sodium Hydroxide NaOH
CAS No.(s) -	7732-18-5; 1310-73-2
USED IN LAB-AIDS KIT # (s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture/Solution
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Sodium hydroxide and water
APPEARANCE AND ODOR -	Clear, colorless solution
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid body contact
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact
HEALTH HAZARDS - (IF ANY)	May be irritant to body tissues
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb w/ sand or vermiculite and place in suitable container
DISPOSAL METHOD -	May be flushed down the drain. Place container in the trash.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water For Eyes: Wash continuously for 15 min., see physician Internal: If ingested wash mouth and consult a physician



**Lab-aids**  
INCORPORATED  
**MATERIAL SAFETY DATA SHEET**

ITEM NO. SA-1B23

04/12/01

CHEMICAL NAME & SYNONYMS -	Sodium Hydroxide, 0.05M NaOH
CAS No.(s) -	7732-18-5; 1310-73-2
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture/Solution
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Sodium hydroxide and water
APPEARANCE AND ODOR -	Clear, colorless solution
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid body contact
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact
HEALTH HAZARDS - (IF ANY)	May be irritant to body tissues
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb w/ sand or vermiculite and place in suitable container
DISPOSAL METHOD -	May be flushed down the drain. Place container in the trash.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water For Eyes: Wash continuously for 15 min., see physician Internal: If ingested wash mouth and consult a physician

**Lab-aids**  
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ITEM NO. SA-1B27

04/12/01

CHEMICAL NAME & SYNONYMS -	<b>Corn Syrup</b>
CAS No.(s) -	7732-18-5; 0050-99-7; 50-00-0
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Corn syrup and formaldehyde for preservative. Soluble in water.
APPEARANCE AND ODOR -	Yellow to brown, syrupy liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	Material considered non-hazardous All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable, non combustible
SPIILLS AND LEAKS -	Absorb w/ sand or vermiculite and place in suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Do not swallow and use chemical goggles. Not to be used for any purpose other than this experiment.
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician For Eyes: Wash continuously for 15 min., see physician

**Lab-aids**  
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MATERIAL SAFETY DATA SHEET

ITEM NO. SA-1B28

04/12/01

CHEMICAL NAME & SYNONYMS -	Carbon Powder Charcoal
CAS No.(s) -	7782-42-5
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	C
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Not soluble in water
APPEARANCE AND ODOR -	Black solid, no odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	None
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	N/A
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS)	No first aid should be necessary

N/A - NOT APPLICABLE

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ITEM NO. SA-1B35

04/12/01

CHEMICAL NAME & SYNONYMS -	Carbon Pieces
CAS No.(s) -	7782-42-5
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	C
FORMULA WEIGHT (FW.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Not soluble in water
APPEARANCE AND ODOR -	Black solid, no odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	None
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	N/A
SPIILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS)	No first aid should be necessary

**LaB-aids**  
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ITEM NO. SA-1B38

04/12/01

CHEMICAL NAME & SYNONYMS -	Corn Starch
CAS No.(s) -	9005-25-8
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	N/A
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Soluble in hot water
APPEARANCE AND ODOR -	White powder, odorless
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Practices which produce dust
HEALTH HAZARDS - (IF ANY)	Material considered non-hazardous All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	Product dust may be combustible. Extinguishing media: Water spray, carbon dioxide, dry chemical extinguishers.
SPILLS AND LEAKS -	Gather up material in a pile (do not sweep to avoid production of dust). Place in container.
DISPOSAL METHOD -	Place container in a landfill site
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

**Lab-aids**  
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ITEM NO. SA-1B41

04/12/01

CHEMICAL NAME & SYNONYMS -	Glow Germ Powder
CAS No.(s) -	N/A
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture
FORMULA WEIGHT (FW.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Non Volatile Non soluble in water
APPEARANCE AND ODOR -	Colored powder
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD -	Place container in school trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

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ITEM NO. SA-1B42

04/12/01

CHEMICAL NAME & SYNONYMS -	Tobacco seeds
CAS No.(s) -	N/A
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	N/A
FORMULA WEIGHT (F.W.) -	
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Small seeds
APPEARANCE AND ODOR -	Blackish seeds
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	Material considered non-hazardous All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	combustible, use Triclass dry chemical fire extinguisher
SPIILLS AND LEAKS -	Absorb w/ sand or vermiculite and place in a suitable container
DISPOSAL METHOD -	Flush down drain or place in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water

**Lab-aids**  
INCORPORATED  
**MATERIAL SAFETY DATA SHEET**

ITEM NO. SA-1B43

04/12/01

CHEMICAL NAME & SYNONYMS -	Sodium Carbonate, 2%
CAS No.(s) -	7732-18-5; 0497-19-8
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: sodium carbonate and water
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb with any suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

N/A - NOT APPLICABLE

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**LaB-aids**  
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ITEM NO. SA-1P06

04/12/01

CHEMICAL NAME & SYNONYMS -	Unsweetened Lemon Mix
CAS No.(s) -	0077-92-9; 0492-62-6; 7647-14-5; 0134-03-2
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consist of: Citric acid, dextrose, artificial flavor, sodium chloride, ascorbic acid, U.S. certified color. Soluble in water
APPEARANCE AND ODOR -	Crystals readily soluble in water
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

**LaB-aids**  
INCORPORATED  
**MATERIAL SAFETY DATA SHEET**

ITEM NO. SA-1P50

04/12/01

CHEMICAL NAME & SYNONYMS -	Antacid Tablets (Calcium Carbonate)
CAS No.(s) -	471-34-1
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	CaCO <sub>3</sub>
FORMULA WEIGHT (F.W.) -	100.09
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 2.7-2.95 Slightly soluble in water, soluble in acids with evolution of carbon dioxide
APPEARANCE AND ODOR -	White, marble looking tabs
INCOMPATIBILITY - (MATERIALS TO AVOID)	Store away from acids
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable, non combustible
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

**Lab-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. SA-1P65

04/12/01

CHEMICAL NAME & SYNONYMS -	Clay
CAS No.(s) -	1132-58-7
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	N/A
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Aluminum silicate (kaolin) and silicon dioxide (sand)
APPEARANCE AND ODOR -	Yellowish gray to brownish mixture
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

**LaB-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. SA-1P76

04/12/01

CHEMICAL NAME & SYNONYMS -	Hay
CAS No.(s) -	N/A
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	N/A
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	N/A
APPEARANCE AND ODOR -	Dried branches
INCOMPATIBILITY - (MATERIALS TO AVOID)	Non-hazardous materials
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	N/A
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	N/A
SPILLS AND LEAKS -	N/A
DISPOSAL METHOD -	N/A
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

N/A - NOT APPLICABLE

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**Lab-aids**  
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ITEM NO. SA-1P83

04/12/01

CHEMICAL NAME & SYNONYMS -	PTC Paper (Paper dipped in isopropanol and 1 phenyl-2 thiourea)
CAS No.(s) -	67-63-0
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	N/A
FORMULA WEIGHT (FW.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Isopropanol and 1 phenyl-2 thiourea impregnated on absorbent paper.
APPEARANCE AND ODOR -	Light colored paper with a characteristic mild pungent odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid contact with organic materials
DOT CLASS -	N/A
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	None
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	N/A
SPIILLS AND LEAKS -	N/A
DISPOSAL METHOD -	N/A
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

N/A - NOT APPLICABLE

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**Lab-aids**  
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MATERIAL SAFETY DATA SHEET

ITEM NO. SA-1P84

04/12/01

CHEMICAL NAME & SYNONYMS -	Absorbent Paper
CAS No.(s) -	N/A
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	N/A
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	N/A
APPEARANCE AND ODOR -	White color paper
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	N/A
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	None
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	N/A
SPILLS AND LEAKS -	N/A
DISPOSAL METHOD -	N/A
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

N/A - NOT APPLICABLE

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ITEM NO. SS-1B17

04/12/01

CHEMICAL NAME & SYNONYMS -	<b>Methyl Cellulose Solution, Concentrated</b> (2.0% Methyl Cellulose)
CAS No.(s) -	7732-18-5; 9004-67-5
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture/Solution
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture Consists of: Methyl Cellulose and water
APPEARANCE AND ODOR -	Clear, viscous liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
DISPOSAL METHOD -	Gather up material in a pile and place in suitable container
DISPOSAL METHOD -	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician

**LaB-aids**  
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ITEM NO. TW-1-14

04/12/01

CHEMICAL NAME & SYNONYMS -	Aluminum Foil
CAS No.(s) -	7429-90-5
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Al
FORMULA WEIGHT (F.W.) -	29.982
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	N/A
APPEARANCE AND ODOR -	Metallic appearance, no odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	N/A
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Contact with acids liberates flammable hydrogen gas
HEALTH HAZARDS - (IF ANY)	Material considered non-hazardous
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	N/A
DISPOSAL METHOD -	Place in recyclable trash
SPECIAL PRECAUTIONS - (IF ANY)	None
FIRST AID - (IF SUBSTANCE (DANGEROUS)	No first aid necessary

N/A - NOT APPLICABLE

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ITEM NO. WH-1-9

04/12/01

CHEMICAL NAME & SYNONYMS -	<b>Brom Thymol Blue Indicator</b> <b>(0.1% Brom Thymol Blue and 0.01% Sodium Hydroxide)</b>
CAS No.(s) -	7732-18-5; 0076-59-5; 1319-63-2
USED IN LAB-AIDS KIT # ('s) -	SCIENCE AND LIFE ISSUES
FORMULA -	Mixture/solution
FORMULA WEIGHT (FW.) -	Mixture/solution
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	As indicator solution. pH 6.0 yellow to 7.6 blue. A water based solution
APPEARANCE AND ODOR -	Odorless blue liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	None, except to practice prudent laboratory procedures
HEALTH HAZARDS - (IF ANY)	All characteristics of this substance may not be investigated
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with suitable material
DISPOSAL METHOD -	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	None
FIRST AID - (IF SUBSTANCE DANGEROUS)	External: Wash affected parts with plenty of water Internal: If ingested wash mouth and consult a physician For Eyes: Wash continuously for 15 min., see physician

**Lab-aids**  
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ITEM NO. HM-2B01E

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Iron (III) Nitrate 40,000 PPM</b>
CAS No.(s) -	10421-48-4
USED IN LAB-AIDS KIT # ('s) -	Issues and Physical Science
FORMULA -	$\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$
FORMULA WEIGHT (F.W.) -	404.00 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Freely soluble. Specific gravity 1.684. Melting point 47.2°C
APPEARANCE AND ODOR -	Orange and violet crystals with slight nitric acid odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid contact with organic material and strong reducing agents
HOT CLASS -	Oxidizer
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact, heat and incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	In solution it is corrosive to eyes, skin and gastrointestinal track.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1mg/cu.m for iron salts, soluble in water as Fe
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb with sand or vermiculite and place in a suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations
SPECIAL PRECAUTIONS - (IF ANY)	Wear gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Wash affected parts with soap and water. Remove contaminated clothing. Seek medical attention if irritation or burns develop. Internal: If swallowed, give a conscious person two glasses of water or milk, and induce vomiting supervised by first-aid personnel. Consult a physician immediately. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

**Lab-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. TW-1-14W

11/14/07

CHEMICAL NAME & SYNONYMS -	Aluminum Washers
CAS No. (s) -	7429-90-5
USED IN LAB-AIDS KIT # (S) -	Waste Disposal: Computers and the Environment Using Chemical reactions to Reduce Waste
FORMULA -	Al
FORMULA WEIGHT (FW) -	29.982 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 2.71 Melting Point 660° C Boiling Point 2450° C
APPEARANCE AND ODOR -	Silvery white metal
ENVIRONMENTAL DATA (MATERIALS TO AVOID)	Strong oxidizing agents
REGULATORY DATA	Not regulated
REACTIVITY	Stable
CONDITIONS TO AVOID (IF ANY)	Contact with acids liberates flammable hydrogen gas Avoid incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	Material considered non-hazardous
TOLERANCE LIMIT VALUE (TELV) (IF ESTABLISHED) -	None
FIRE HAZARD - (IF ANY)	Non flammable
SPILLS AND CLEANUP	Gather up material in a pile and place in a suitable container
DISPOSAL AND TREATMENT (CONSIDERATIONS)	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE DANGEROUS)	Internal: If ingested see physician

**Lab-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. Z1-002A

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Zinc Pieces</b>
CAS No.(s) -	7440-66-6
USED IN LAB-AIDS KIT # (s) -	Issues and Physical Science
FORMULA -	Zn
FORMULA WEIGHT (F.W.) -	65.37 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Not soluble in water Soluble in acids and alkalies Sp. Gr. 7.15
APPEARANCE AND ODOR -	Shiny white metal with bluish-gray luster
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong acids and bases, halogen gases, oxidizers
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	Material considered non-hazardous
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	Material should be recycled
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Internal: If ingested see physician

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ITEM NO. HM-1-2EA

11/14/07

CHEMICAL NAME & SYNONYMS -	0.1 M Potassium Thiocyanate solution
CAS No.(s) -	7732-18-5; 333-20-6
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Potassium thiocyanate and water
APPEARANCE AND ODOR -	clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	None
HEALTH HAZARDS - (OVEREXPOSURE)	May be toxic by ingestion
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb with sand or vermiculite and place in suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical splash safety goggles Avoid strong heating
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Wash affected parts with plenty of water. Internal: If swallowed, give a conscious person two glasses of water or milk, and induce vomiting supervised by first-aid personnel. Consult a physician immediately. If smaller quantities were ingested seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

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## MATERIAL SAFETY DATA SHEET

ITEM NO. HM-2B08E

11/14/07

CHEMICAL NAME & SYNONYMS -	Denatured Ethyl Alcohol
CAS No.(s) -	0064-17-5; 7732-18-5; 0141-78-6; 0067-56-1; 0108-10-1
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	N/A
FORMULA WEIGHT (F.W.) -	Mixture of alcohols
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Alcohol, ethyl is denatured
APPEARANCE AND ODOR -	Clear liquid, strong alcohol odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidizing agents. Strong inorganic acids.
DOT CLASS -	Flammable liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Heat, spark, open flame and incompatibles. Avoid inhaling fumes
HEALTH HAZARDS - (OVEREXPOSURE)	Prolonged inhalation is harmful. Toxic by ingestion.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1000 ppm in air
FIRE HAZARDS - (IF ANY)	Flammable, use Triclass dry chemical fire extinguisher
SPILLS AND LEAKS -	Absorb with a paper towel and let it evaporate under fume hood. Dry material place in trash.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with federal, state and local regulations. Waste material may be landfilled or incinerated at an approved facility.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves, chemical splash safety goggles. If good ventilation is not available use a fume hood
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with soap and water. Remove contaminated clothing. Internal: If swallowed, give a conscious person two glasses of water or milk, and induce vomiting supervised by first-aid personnel. Consult a physician immediately. If smaller quantities were ingested seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

N/A - NOT APPLICABLE

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## MATERIAL SAFETY DATA SHEET

ITEM NO. EHR-2B01E

11/14/07

CHEMICAL NAME & SYNONYMS -	Copper Chloride Solution, 100,000 PPM
CAS No.(s) -	7732-18-5; 10125-13-0
USED IN LAB-AIDS KIT # (f's) -	Waste Disposal: Computers and the Environment Using Chemical reactions to Reduce Waste
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Copper (II) Chloride and water
APPEARANCE AND ODOR -	Clear, green liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidizers, Potassium, Sodium, Aluminum, Hydrazine, Nitromethane, Acetylene
DOT CLASS -	Corrosive
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact and incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	Corrosive to eyes, skin and mucous membrane of gastrointestinal tract.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1mg/cu.m for copper dusts and mists as Cu
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb with sand or vermiculite and place in suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations
SPECIAL PRECAUTIONS - (IF ANY)	Avoid eye contact. Do not swallow. Wear chemical splash safety goggles and gloves.
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Wash affected parts with plenty of water. Seek medical attention if irritation or burns develop. Internal: If swallowed, give a conscious person two glasses of water or milk, and induce vomiting supervised by first- aid personnel. Consult a physician immediately. If smaller quantities were ingested seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

N/A - NOT APPLICABLE

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ITEM NO. PL-1-6EA

11/14/07

CHEMICAL NAME & SYNONYMS -	Acetone
CAS No.(s) -	67-64-1
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	CH <sub>3</sub> COCH <sub>2</sub>
FORMULA WEIGHT (FW.) -	58.08
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 0.785 Miscible in water and most organic solvents
APPEARANCE AND ODOR -	clear liquid, pungent odor, volatile
INCOMPATIBILITY - (MATERIALS TO AVOID)	Can react with strong oxidizers, inorganic acids and halogens
DOT CLASS -	Flammable liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Heat, spark, open flame. Avoid breathing vapor.
HEALTH HAZARDS - (OVEREXPOSURE)	Irritant to skin, eyes and mucous membrane. Harmful if swallowed. Prolonged inhalation can cause dizziness and headache.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	750ppm in air
FIRE HAZARDS - (IF ANY)	Flammable, use triclass dry chemical fire extinguisher. Combustible liquid, serious fire hazard.
SPILLS AND LEAKS -	Absorb with a paper towel and let it evaporate under a fume hood. Dry material place in trash.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations. Waste material may be landfilled or incinerated at an approved facility
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves, chemical splash safety goggles. If good ventilation is not available use a fume hood.
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Wash affected parts with soap and water. Remove contaminated clothing. Internal: If swallowed, call a physician or poison control center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.



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## MATERIAL SAFETY DATA SHEET

ITEM NO. HM-2B07E

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Ethanol</b>
CAS No.(s) -	0064-17-5; 7732-18-5; 0141-78-6; 0067-56-1; 0108-10-1
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	N/A
FORMULA WEIGHT (F.W.) -	Mixture of Alcohols
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Alcohol, ethyl is denatured
APPEARANCE AND ODOR -	Clear liquid; strong alcohol odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidizing agents. Strong inorganic acids.
DOT CLASS -	Flammable liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Heat, spark, open flame and incompatibles. Avoid inhaling fumes.
HEALTH HAZARDS - (OVEREXPOSURE)	Prolonged inhalation is harmful. Toxic by ingestion.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	100 ppm in air
FIRE HAZARDS - (IF ANY)	Flammable, use Triclass dry chemical fire extinguisher.
SPILLS AND LEAKS -	Absorb with a paper towel and let it evaporate under a fume hood. Dry material place in trash.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations. Waste material may be landfilled or incinerated at an approved facility
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves, chemical splash safety goggles. If good ventilation is not available use a fume hood.
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with plenty of water. Internal: If swallowed, give a conscious person two glasses of water or milk, and induce vomiting supervised by first-aid personnel. Consult a physician immediately. If smaller quantities were ingested seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

N/A - NOT APPLICABLE

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ITEM NO. IAPS-B20

11/14/07

CHEMICAL NAME & SYNONYMS -	1.0 M Hydrochloric Acid Solution
CAS No.(s) -	7732-18-5; 7647-01-0
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	HCl
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Fully miscible in water
APPEARANCE AND ODOR -	Clear liquid, slight pungent odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidants
DOT CLASS -	Corrosive liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Strong oxidants. Avoid body contact.
HEALTH HAZARDS - (OVEREXPOSURE)	Corrosive to skin, eyes and gastrointestinal track.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Contain and neutralize the spill with acid neutralizer. Absorb with sand or vermiculite and place in suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	Discharge, treatment or disposal may be subject to Federal, State or Local laws. Dilute with 20 X water. Add sodium carbonate or sodium hydroxide solution. Bring pH to neutral and flush the solution down the drain.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with plenty of water. Remove contaminated clothing. Seek immediate medical attention if irritation or burns develop. Internal: If swallowed, wash mouth and give a conscious person two glasses of water or milk. Seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

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## MATERIAL SAFETY DATA SHEET

ITEM NO. PL-1-3EA

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Sodium Borate (4% Solution)</b>
CAS No.(s) -	7732-18-5; 1303-96-4
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Sodium tetra borate and water.
APPEARANCE AND ODOR -	Clear, colorless, odorless solution
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	None
HEALTH HAZARDS - (OVEREXPOSURE)	May be irritant to skin and eyes. Ingestion in large quantities may cause vomiting and diarrhea.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with a suitable material. Place in a suitable container.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations
SPECIAL PRECAUTIONS - (IF ANY)	Wear gloves and chemical splash safety goggles.
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with soap and water. Internal: If swallowed large quantities, give a conscious person two glasses of water or milk, and induce vomiting supervised by first-aid personnel. Consult a physician immediately. If smaller quantities were ingested seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

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## MATERIAL SAFETY DATA SHEET

ITEM NO. PL-1-5EA

11/14/07

CHEMICAL NAME & SYNONYMS -	Polyvinyl Alcohol; PVA
CAS No.(s) -	7732-18-5; 9002-89-5
USED IN LAB-AIDS KIT # ('s) -	Living with Plastics
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Polyvinyl alcohol and water 4% solution
APPEARANCE AND ODOR -	Slight milky liquid. Mild odor.
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong acids and oxidizers
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	None
HEALTH HAZARDS - (OVEREXPOSURE)	Effects of overexposure by ingestion: may cause slight burns and vomiting. Skin and eyes: may cause slight burns or rash. No toxic chemicals subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable. For dried adhesive use water or chemical foam.
SPILLS AND LEAKS -	Absorb with a suitable material and place in a suitable container.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations
SPECIAL PRECAUTIONS - (IF ANY)	Wear gloves and chemical splash safety goggles.
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with soap and water. Internal: If swallowed large quantities, give a conscious person two glasses of water or milk, and induce vomiting supervised by first-aid personnel. Consult a physician immediately. If smaller quantities were ingested seek immediate medical attention. No adverse health effects are anticipated. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

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ITEM NO. SP-SX40

11/14/07

CHEMICAL NAME & SYNONYMS -	Salt
CAS No.(s) -	7647-14-5
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	NaCl
FORMULA WEIGHT (F.W.) -	58.45 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 2.165 Soluble in water and glycerol; slightly soluble in alcohol
APPEARANCE AND ODOR -	Colorless, transparent crystals; hygroscopic
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into air other than what activity procedure describes.
HEALTH HAZARDS - (OVEREXPOSURE)	Eye and mucous membrane irritant.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Pick up and place in a suitable container using a method that does not generate dust.
DISPOSAL METHOD - (CONSIDERATIONS)	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Wash affected parts with soap and water. Internal: If swallowed, wash mouth and give a conscious person two glasses of water or milk, and consult a physician if necessary. Eyes: Flush with water and continue washing for 15 min. See physician. Respiratory: Transport to fresh air.

**LaB-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. WD-2B01E

11/14/07

CHEMICAL NAME & SYNONYMS -	Etching Solution (6.7% Copper chloride, 10% hydrochloric acid)
CAS No.(s) -	7732-18-5; 7447-39-4; 7647-01-0
USED IN LAB-AIDS KIT # ('s) -	Waste Disposal: Computers and the Environment
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Copper (II) Chloride, hydrochloric acid and water
APPEARANCE AND ODOR -	Clear, blue liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	Reacts with strong alkalies
DOT CLASS -	Corrosive
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact and incompatibles.
HEALTH HAZARDS - (OVEREXPOSURE)	It is corrosive to eyes, skin, mucous membrane and gastrointestinal tract.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1 mg/cu.m for copper dusts and mists as Cu
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Neutralize with acid neutralizer and absorb with sand or vermiculite and place in a suitable container.
DISPOSAL METHOD - (CONSIDERATIONS)	Dispose of waste material in accordance with Local, State and Federal regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Avoid eye contact. Do not swallow. Wear chemical splash safety goggles and gloves.
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with plenty of water. Remove contaminated clothing. Seek medical attention if irritation or burns develop. Internal: Never give anything by mouth to an unconscious person. If ingested wash mouth and drink two glasses of water or milk. Seek medical attention immediately. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. See physician immediately. Respiratory: Transport to fresh air. Call physician if necessary.

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## MATERIAL SAFETY DATA SHEET

ITEM NO. TW-1-2EA

11/14/07

CHEMICAL NAME & SYNONYMS -	5% Ammonia
CAS No.(s) -	7732-18-5; 1336-21-6
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: 5-8% ammonia gas and water
APPEARANCE AND ODOR -	Water-like liquid with a strong ammonia odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Halogens, acids, silver compounds, dimethyl sulfate, most common metals.
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not mix with chlorine bleach or chlorine products. Avoid heat, sunlight and incompatibles.
HEALTH HAZARDS - (OVEREXPOSURE)	Inhalation of excessive quantities may irritate respiratory tract. Eye contact may cause severe eye irritation. Ingestion may cause pain and burns to mucous membrane, the esophagus and stomach.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	25ppm in air as ammonia gas
FIRE HAZARDS - (IF ANY)	Non flammable, non combustible
SPILLS AND LEAKS -	Absorb with any suitable material. Let it evaporate under a fume hood. Dry material place in trash.
DISPOSAL METHOD - (CONSIDERATIONS)	Dispose of waste material in accordance with Local, State and Federal regulations. Small quantities may be flushed down drain if connected to a sewer line with large quantities of water.
SPECIAL PRECAUTIONS - (IF ANY)	Avoid body and eye contact. Do not swallow. Use chemical splash goggles. Provide adequate ventilation
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Remove contaminated clothing. Wash affected parts with plenty of water. See physician if necessary. Internal: If swallowed, do not induce vomiting. Give a conscious person two glasses of water or milk. Get medical attention immediately. Eyes: Immediately rinse eyes with flowing water lifting upper and lower eyelids. Flash continuously for 15 min. Get immediate medical attention. Respiratory: Transport to fresh air. See physician if necessary.

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ITEM NO. IAPS-B02

11/14/07

CHEMICAL NAME & SYNONYMS -	Sodium Hydrogen Phosphate (11% solution)
CAS No.(s) -	7732-18-5; 10049-21-5
USED IN LAB-AIDS KIT # (s) -	Waste Disposal: Computers and the Environment
FORMULA -	$\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Sodium hydrogen phosphate in water
APPEARANCE AND ODOR -	Clear, colorless solution
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact
HEALTH HAZARDS - (OVEREXPOSURE)	May cause eye and skin irritation
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with sand or vermiculite and place in a suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	Dispose of waste material in accordance with Federal, State and Local regulations. The solution may be placed in a landfill site.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Wash affected parts with plenty of water. Internal: If ingested wash mouth and give a conscious person two glasses of water or milk. Seek medical attention immediately. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. See physician immediately. Inhalation: Transport to fresh air.



11/14/07

CHEMICAL NAME & SYNONYMS -	Sodium Carbonate, 0.8M
CAS No.(s) -	7732-18-5; 0497-19-8
USED IN LAB-AIDS KIT # ('s) -	Waste Disposal: Computers and the Environment
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: sodium carbonate and water
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (OVEREXPOSURE)	Irritating to the eyes and continuous contact may irritate skin.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with sand or vermiculite and place in a suitable container.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations. Item may be placed in a landfill. Not expected to be toxic to the environment nor to aquatic animals.
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures.
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with plenty of water. Eyes: Immediately flush eyes with running water for 15 min. keeping eyelids open. See physician. Internal: If ingested wash mouth and dilute by giving 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.

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MATERIAL SAFETY DATA SHEET

ITEM NO. TW-1-15E

11/14/07

CHEMICAL NAME & SYNONYMS -	Iron Washers
CAS No.(s) -	7439-89-6
USED IN LAB-AIDS KIT # (S) -	Waste Disposal: Computers and the Environment
FORMULA	Fe
FORMULA WEIGHT (L.W.) -	55.85 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 7.87 Insoluble in water
APPEARANCE AND ODOR -	Grey black, shiny metallic luster
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidizing agents
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONNECTIONS TO OTHERS - (IF ANY)	Avoid incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	Material considered to be non hazardous
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILL AND LEAKS -	Gather up material in a pile and place in a suitable container.
DISPOSAL METHOD - (CONSIDERATIONS)	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE) (DANGEROUS)	Internal: If ingested see a physician.

**Lab-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. WD-2P02E

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Copper Chloride Paper</b>
CAS No.(s) -	7732-18-5; 10125-13-0
USED IN LAB-AIDS KIT # ('s) -	Waste Disposal: Computers and the Environment
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Copper chloride solution impregnated on absorbent paper
APPEARANCE AND ODOR -	Light green paper with a characteristic mild pungent odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid contact with organic materials
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact
HEALTH HAZARDS - (OVEREXPOSURE)	May be irritant to eyes and mucous membrane upon contact.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1mg/cu.m for copper dusts and mists as Cu
FIRE HAZARDS - (IF ANY)	Combustible material. Use Triclass dry chemical fire extinguisher
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	Dispose of in an approved chemical waste landfill in accordance with applicable Federal, State and Local regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Avoid body and eye contact. Use gloves and chemical splash safety goggles.
FIRST AID - (IF SUBSTANCE (DANGEROUS)	External: Wash affected parts with plenty of water. Internal: If ingested wash mouth and consult a physician immediately. Eyes: Flush with water for 15 min. See a physician if necessary.

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MATERIAL SAFETY DATA SHEET

ITEM NO. WD-2P06E

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Zinc Washers</b>
CAS No.(s) -	7440-66-6
USED IN LAB-AIDS KIT # ('s) -	Waste Disposal: Computers and the Environment
FORMULA -	Zn
FORMULA WEIGHT (F.W.) -	65.37 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Not soluble in water Soluble in acids and alkalies Sp. Gr. 7.15
APPEARANCE AND ODOR -	Shiny white metal with bluish-gray luster
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong acids and bases, halogen gases, oxidizers
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	Material considered non-hazardous
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	Place in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Internal: If ingested see physician

**Lab-aids**  
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ITEM NO. IAPS-B07

11/14/07

CHEMICAL NAME & SYNONYMS -	Distilled Water
CAS No.(s) -	7732-18-5
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	H <sub>2</sub> O
FORMULA WEIGHT (F.W.) -	18.016 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 1.00
APPEARANCE AND ODOR -	Colorless, odorless, tasteless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid drinking
HEALTH HAZARDS - (OVEREXPOSURE)	No information found
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	N/A
SPILLS AND LEAKS -	Mop up or absorb with an inert dry material and place in a suitable container.
DISPOSAL METHOD - (CONSIDERATIONS)	Whatever cannot be saved for recovery or recycling should be flushed to a sewer.
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	N/A

**LAB-aids**  
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ITEM NO. SP-2B04E

11/14/07

CHEMICAL NAME & SYNONYMS -	Sodium Chloride, Salt
CAS No.(s) -	7647-14-5
USED IN LAB-AIDS KIT # ('s) -	Investigating Wastewater: Solutions and Pollution
FORMULA -	NaCl
FORMULA WEIGHT (F.W.) -	58.45 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Soluble in water and glycerol; slightly soluble in alcohol
APPEARANCE AND ODOR -	White powder or crystals; hygroscopic
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into the air other than what activity procedure describes.
HEALTH HAZARDS - (OVEREXPOSURE)	Eye and mucous membrane irritant
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	Non flammable
SPLILLS AND LEAKS -	Pick up and place in a suitable container using a method that does not generate dust.
DISPOSAL METHOD - (CONSIDERATIONS)	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory practice
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with soap and water. Internal: If swallowed, wash mouth and give a conscious person two glasses of water or milk, and consult a physician if necessary. Eyes: Flush with water and continue washing for 15 min. See physician. Respiratory: Transport to fresh air.

11/14/07

CHEMICAL NAME & SYNONYMS -	Cupric Chloride Dihydrate; Copper Dichloride; Copper Chloride Dihydrate
CAS No.(s) -	10125-13-0
USED IN LAB-AIDS KIT # (S) -	Investigating Wastewater: Solutions and Pollution
FORMULA -	$\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$
FORMULA WEIGHT (F.W.) -	170.48 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Water soluble and alcohol Sp. Gr. 2.51
APPEARANCE AND ODOR -	Fine, light blue-green crystals with a slight hydrochloric odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Potassium, sodium, hydrazine, nitromethane, aluminum, strong oxidizers, acetylene and sodium hypobromite
DOT CLASS -	Corrosive
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact
HEALTH HAZARDS - (OVEREXPOSURE)	Inhalation may cause irritation of the upper respiratory tract. May cause skin irritation. May cause eye irritation and damage. Harmful or fatal if swallowed.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1 MG/M3 as Cu
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Sweep, scoop, or pick up spilled material. Avoid dusting. Package for reclamation or recovery or dispose of in landfill.
DISPOSAL METHOD - (CONSIDERATIONS)	Dispose of in an approved chemical waste landfill in accordance with applicable federal, state and local regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Use fume hood wear chemical splash safety goggles and gloves
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Wash affected parts with plenty of water. Seek medical attention if irritation or burns develop. Internal: Never give anything by mouth to an unconscious person. If swallowed immediately wash mouth and then drink two glasses of water or milk and induce vomiting. Consult a physician immediately. Eyes: Wash continuously for 15 min., see physician. If inhaled transfer a person to fresh air, see physician.

## MATERIAL SAFETY DATA SHEET

ITEM NO. SP-2B15E

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Ferrous Chloride</b>
CAS No.(s) -	13478-10-9
USED IN LAB-AIDS KIT # (s) -	Investigating Wastewater: Solutions and Pollution
FORMULA -	$\text{FeCl}_2 \cdot \text{XH}_2\text{O}$
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Material dissolves in water to form an acidic solution
APPEARANCE AND ODOR -	Greenish powder, granular, odorless
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidizing agents. Forms explosive mixtures with: sodium, potassium
DOT CLASS -	Corrosive
REACTIVITY -	Stable. Hazardous combustion or decomposition products - Hydrogen chloride gas.
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact and incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	Harmful if swallowed, inhaled or absorbed through skin.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1mg/m <sup>3</sup>
FIRE HAZARDS - (IF ANY)	Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.
SPILLS AND LEAKS -	Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with federal, state and local regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Wash affected parts with plenty of water. Seek medical attention if irritation or burns develop. Eyes: Immediately flush eyes with running water for 15 min. keeping eyelids open. See physician. Internal: If ingest- ed wash mouth and have conscious person drink 2 glasses of water or milk. Seek immediate medical atten- tion. Do not induce vomiting. Inhalation: Transport person to fresh air. Seek immediate medical attention.



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ITEM NO. C1-1-21E

11/14/07

CHEMICAL NAME & SYNONYMS -	Nitrate Indicator Powder
CAS No.(s) -	7647-14-5; 7440-66-6; 121-57-3; 1465-25-4
USED IN LAB-AIDS KIT # (s) -	Science and Sustainability
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Sodium chloride, powdered zinc, N-1 Naphthylenediamine dihydrochloride and sulfanilic acid
APPEARANCE AND ODOR -	Off-white crystals with no distinguishable odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Oxidizing materials
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse into air other than what activity procedure describes Open flames
HEALTH HAZARDS - (OVEREXPOSURE)	May be irritant in case of eye and skin contact, when inhaled and ingested
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Amount of zinc is too small to pose a significant fire risk
SPILLS AND LEAKS -	Pick up and place in a suitable container using a method that does not generate dust
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local laws
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash off with soap and water. Respiratory: Remove a person to fresh air. Seek medical attention if shortness of breath or irritation persists. Eyes: Flush with water for 15 min. lifting upper and lower eyelids. Do not rub eyes. See physician if necessary. Ingestion: If swallowed, wash mouth and give a conscious person a glass of water or two. Seek medical attention.

**Lab-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. C1-1-22E

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Sodium Nitrate (0.1M)</b>
CAS No.(s) -	7732-18-5; 7631-99-4
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture/Solution
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: water and sodium nitrate
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	reducing agents, acids, organic materials
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	May cause skin or eye irritation. May be harmful if swallowed.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with a suitable material
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles.
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with soap and water. Get medical attention if irritation develops. Internal: Never give anything by mouth to an unconscious person. If swallowed, immediately wash mouth and then drink two glasses of water or milk. Consult a physician immediately. Eyes: Wash continuously for 15 min. lifting upper and lower eyelids. See physician if irritation occurs. Respiratory: If inhaled, transport to fresh air.

**Lab-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. SP-2B05E

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Lauric Acid</b>
CAS No.(s) -	0143-07-7
USED IN LAB-AIDS KIT # ('s) -	Investigating Wastewater: Solutions and Pollution
FORMULA -	$C_{12}H_{24}O_2$
FORMULA WEIGHT (F.W.) -	200.32 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Insoluble in water; 1g dissolves in 1ml of alcohol. Melting point 44-46° C Flash point 113° C
APPEARANCE AND ODOR -	White Crystalline Powder
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidizers
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Heat, sparks or open flame. Do not disperse the chemical into air other than what activity procedure describes.
HEALTH HAZARDS - (OVEREXPOSURE)	A constituent of some detergents and foods. Large doses may produce gastrointestinal upset. May cause eye irritation. May cause irritation to the respiratory tract.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	Use dry chemical fire extinguisher, water spray
SPILLS AND LEAKS -	Clean up spills in a manner that does not produce dust. Pick up spill for recovery or disposal and place in closed container.
DISPOSAL METHOD - (CONSIDERATIONS)	Dispose of container and unused contents in accordance with federal, state and local requirements.
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with soap and water. Internal: Never give anything by mouth to an unconscious person. If swallowed, immediately wash mouth first and then drink two glasses of water or milk. Consult a physician immediately. Eyes: Wash continuously for 15 min. lifting upper and lower eyelids. See physician if irritation develops. If inhaled transfer a person to fresh air. See physician if necessary.

**Lab-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. SP-2B11E

11/14/07

CHEMICAL NAME & SYNONYMS -	Neroline Yara Yara (Beta Naphthyl Methyl Ether)
CAS No.(s) -	93-04-9
USED IN LAB-AIDS KIT # ('s) -	Investigating Wastewater: Solutions and Pollution
FORMULA -	$C_{11}H_{10}O$
FORMULA WEIGHT (F.W.) -	158.19 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Melting Point = 72°C Boiling point = 274°C 1 gr is soluble in 25 ml of the 95% Alcohol
APPEARANCE AND ODOR -	White crystals having floral odor suggestive of orange flavors free Naphthol by odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into the air other than what activity procedure describes.
HEALTH HAZARDS - (OVEREXPOSURE)	May cause eye irritation
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Pick up and place in a suitable container using a method that does not generate dust.
DISPOSAL METHOD - (CONSIDERATIONS)	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with soap and water. Internal: Never give anything by mouth to an unconscious person. If swallowed, immediately wash mouth first and then drink two glasses of water or milk. Consult a physician immediately. Eyes: Wash continuously for 15 min. lifting upper and lower eyelids. See physician if irri- tation develops. If inhaled transfer a person to fresh air. See physician if necessary.

11/14/07

CHEMICAL NAME & SYNONYMS -	Sugar
CAS No.(s) -	0057-50-1
USED IN LAB-AIDS KIT # ('s) -	Investigating Wastewater: Solutions and Pollution
FORMULA -	$C_{12}H_{22}O_{11}$
FORMULA WEIGHT (F.W.) -	342.3 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Soluble in water; slightly soluble in alcohol
APPEARANCE AND ODOR -	White crystals
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into the air other than what activity procedure describes.
HEALTH HAZARDS - (OVEREXPOSURE)	May be irritating to eyes
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Pick up and place in a suitable container using a method that does not generate dust.
DISPOSAL METHOD - (CONSIDERATIONS)	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedure
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with soap and water. Internal: If swallowed wash mouth and give conscious person a glass of water or milk if necessary. Eyes: Flush with water for 15 min. lifting upper and lower eyelids. See physician if necessary. Inhalation: Transport to fresh air if necessary.

11/14/07

CHEMICAL NAME & SYNONYMS -	Cupric Sulfate Pentahydrate
CAS No.(s) -	7758-99-8
USED IN LAB-AIDS KIT # (s) -	Investigating Wastewater: Solutions and Pollution
FORMULA -	$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
FORMULA WEIGHT (F.W.) -	249.68 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Water solubility 25.6% by weight. Melting point 150° C
APPEARANCE AND ODOR -	Blue color crystals, odorless
INCOMPATIBILITY - (MATERIALS TO AVOID)	Substance will ignite hydroxylamine. Solutions are acidic and can react with magnesium to evolve flammable hydrogen gas. May react with acetylene to form dangerous acetylides.
DOT CLASS -	Miscellaneous hazardous materials
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Excessive heat and humidity. Avoid body contact and exposure to incompatibles.
HEALTH HAZARDS - (OVEREXPOSURE)	May cause skin irritation. Dust may cause eye and respiratory irritation. Contact with eyes may cause conjunctivitis or clouding of cornea. Harmful when ingested.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1 mg/m <sup>3</sup>
FIRE HAZARDS - (IF ANY)	Cupric sulfate is not a fire hazard. Use any means to extinguish surrounding fire. Carbon dioxide and dry chemical preferred.
SPILLS AND LEAKS -	Pick up and place in suitable container for reclamation or disposal using a method that does not generate dust.
DISPOSAL METHOD - (CONSIDERATIONS)	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and wear chemical splash safety goggles
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with plenty of water. Internal: Never give anything by mouth to an unconscious person. If ingested, induce vomiting immediately as directed by medical personnel. Eyes: Immediately wash with water for 15 min. holding eyelids apart. See a physician. Inhalation: Transport a person to fresh air. See physician.

11/14/07

CHEMICAL NAME & SYNONYMS -	Potting Soil
CAS No.(s) -	N/A
USED IN LAB-AIDS KIT # ('s) -	Waste Disposal: Computers and the Environment
FORMULA -	N/A
FORMULA WEIGHT (F.W.) -	N/A
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Not soluble in water
APPEARANCE AND ODOR -	Brown with a flaky, granular texture. No discernible odor.
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse into air other than what activity procedure describes.
HEALTH HAZARDS - (OVEREXPOSURE)	Soil particles may cause abrasion of the cornea
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	N/A
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	Place container in trash
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Wash off with soap and water. Inhalation: remove a person to fresh air. Seek medical attention if shortness of breath or irritation persists. Eyes: Flush with water for 15 min. lifting upper and lower eyelids. Do not rub eyes. See physician if necessary. Ingestion: If swallowed wash mouth and give a conscious person a glass of water or two. Seek medical attention.

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ITEM NO. IAPS-B14

11/14/07

CHEMICAL NAME & SYNONYMS -	Alum (Aluminum potassium sulfate)
CAS No.(s) -	7784-24-9
USED IN LAB-AIDS KIT # ('s) -	Chemicals, Health, environment and Me
FORMULA -	$\text{AlK}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
FORMULA WEIGHT (F.W.) -	474.39
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Crystal structure Soluble in cold water, hot water Insoluble in alcohol
APPEARANCE AND ODOR -	White to off-white crystals, no odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Very slightly to slightly reactive with oxidizing agents, moisture
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse material into air other than what activity procedure describes. Avoid incompatibles and heat.
HEALTH HAZARDS - (OVEREXPOSURE)	Prolonged skin contact may cause irritation. It may cause irritation to eyes, gastrointestinal tract and respiratory tract.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	2 mg (Al)/m <sup>3</sup>
FIRE HAZARDS - (IF ANY)	Non flammable. May release sulfur dioxide or sulfur trioxide at high temperature
SPILLS AND LEAKS -	Pick up and place in a suitable container using a method that does not generate dust.
DISPOSAL METHOD - (CONSIDERATIONS)	Recycle to process, if possible. All disposals must comply with Federal, State and Local regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical gloves and goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with plenty of soap and water. Eyes: Flush with water for 15 min. lifting upper and lower eyelids. Do not rub eyes. Consult a physician. Internal: If swallowed, wash mouth and have a conscious person drink two glasses of water or milk. Seek medical attention immediately. Inhalation: Transport to fresh air. Get medical attention if irritation persists.



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ITEM NO. IAPS-B21

11/14/07

CHEMICAL NAME & SYNONYMS -	Green Food Coloring (5% solution)
CAS No.(s) -	3844-45-9; 1934-21-0
USED IN LAB-AIDS KIT # ('s) -	Issues and Physical Science
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: water and green food coloring
APPEARANCE AND ODOR -	Dark green liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid skin contact
HEALTH HAZARDS - (OVEREXPOSURE)	It will stain skin temporarily None of the ingredients are hazardous
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with a suitable material
DISPOSAL METHOD - (CONSIDERATIONS)	Flush down drain if connected to a sewer line. If not, place in the trash.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash off with soap and water. Eyes: Flush with water for 15 min. lifting upper and lower eyelids. Seek medical attention. Ingestion: If swallowed wash mouth and have conscious person drink two glasses of water or milk. Seek medical attention. Inhalation: Remove a person to fresh air.

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ITEM NO. SA-1B28E

11/14/07

CHEMICAL NAME & SYNONYMS -	Activated Charcoal
CAS No.(s) -	7440-44-0
USED IN LAB-AIDS KIT # (s) -	SCIENCE AND LIFE ISSUES
FORMULA -	C
FORMULA WEIGHT (F.W.) -	12.01 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Not soluble in water
APPEARANCE AND ODOR -	Black powder, no odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Oxidizing agents
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Do not disperse sand into the air other than what activity procedure describes
HEALTH HAZARDS - (OVEREXPOSURE)	Irritating to eyes and respiratory system
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	2mg/cu cm respirable dust
FIRE HAZARDS - (IF ANY)	Use dry chemical fire extinguisher, water spray
SPIILLS AND LEAKS -	Pick up and place in a suitable container using a method that does not generate dust.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with federal, state and local regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Remove contaminated clothing and wash affected parts with soap and water. Inhalation: Remove a person to fresh air. If irritation persists seek medical attention immediately. Eyes: Flush with water for 15 min. lifting upper and lower eyelids. If irritation persists seek medical attention. Ingestion: If swallowed, wash mouth and have a conscious person drink two glasses of water or milk. Seek immediate medical attention.

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ITEM NO. C1-1-36

11/14/07

CHEMICAL NAME & SYNONYMS -	Universal Indicator (23% of denatured alcohol)
CAS No.(s) -	7732-18-5; 0064-17-5; 1310-73-2; 0076-59-5
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	An ethyl alcohol based solution
APPEARANCE AND ODOR -	May appear as dark green or amber liquid with characteristic odor of ethyl alcohol
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidizing agents
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid heat and incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	Toxic by ingestion and prolonged inhalation.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1000 ppm for ethyl alcohol
FIRE HAZARDS - (IF ANY)	Vapors are flammable, but too small to pose a significant fire hazard. Use Triclass dry chemical fire extinguisher for surrounding fire.
SPILLS AND LEAKS -	Absorb with sand or vermiculite and place in a suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with federal, state and local regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical splash safety goggles
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with soap and water. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek medical attention. Ingestion: Wash mouth and give a conscious person two glasses of water or milk. Seek medical attention immediately. Inhalation: Transport a person to fresh air.

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## MATERIAL SAFETY DATA SHEET

ITEM NO. C1-1-49E

11/14/07

CHEMICAL NAME & SYNONYMS -	0.1% Phenolphthalein (50% Denatured Ethyl Alcohol)
CAS No.(s) -	7732-18-5; 0064-17-5; 0077-09-8
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Phenolphthalein dissolved in denatured alcohol and diluted with water.
APPEARANCE AND ODOR -	Colorless in neutral or acid solution; pink to deep red in the presence of alkali. Alcohol odor.
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidizing agents. Strong inorganic acids.
DOT CLASS -	Flammable liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Heat, spark, open flame or incompatibles. Avoid inhaling fumes.
HEALTH HAZARDS - (OVEREXPOSURE)	Prolonged inhalation is harmful Toxic by ingestion
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1000 ppm in air
FIRE HAZARDS - (IF ANY)	Flammable, use Triclass dry chemical fire extinguisher
SPILLS AND LEAKS -	Absorb with a paper towel and let it evaporate under a fume hood. Place dry material in trash.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with federal, state and local regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Use chemical splash safety goggles. If good ventilation is not available use a fume hood.
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with plenty of water. Internal: If swallowed large quantities, give a conscious person two glasses of water or milk, and induce vomiting supervised by first-aid personnel. Consult a physician immediately. If smaller quantities were ingested seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

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ITEM NO. C1-1-43E

11/14/07

CHEMICAL NAME & SYNONYMS -	1% Hydrochloric Acid
CAS No.(s) -	7732-18-5; 7647-01-0
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	HCl
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Fully miscible in water
APPEARANCE AND ODOR -	Clear liquid, slight pungent odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidants
DOT CLASS -	Corrosive liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Strong oxidants. Avoid body contact.
HEALTH HAZARDS - (OVEREXPOSURE)	Corrosive to skin, eyes and gastrointestinal track.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Contain and neutralize the spill with acid neutralizer. Absorb with sand or vermiculite and place in suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	Discharge, treatment or disposal may be subject to Federal, State or Local laws. Dilute with 20 X water. Add sodium carbonate or sodium hydroxide solution. Bring pH to neutral and flush the solution down the drain.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with plenty of water and remove contaminated clothing. Seek immediate medical attention if irritation or burns develop. Internal: If swallowed, wash mouth and give a conscious person two glasses of water or milk. Seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

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## MATERIAL SAFETY DATA SHEET

ITEM NO. SP-2B08E

11/14/07

CHEMICAL NAME & SYNONYMS -	Sodium Carbonate, 5%
CAS No.(s) -	7732-18-5; 0497-19-8
USED IN LAB-AIDS KIT # ('s) -	Investigating Wastewater: Solutions and Pollution
FORMULA -	Mixture/solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: sodium carbonate and water
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	None
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	N/A
HEALTH HAZARDS - (OVEREXPOSURE)	Irritating to the eyes and continuous contact may irritate skin.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Absorb with sand or vermiculite and place in a suitable container.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations. It may be placed in a landfill. Not expected to be toxic to the environment nor to aquatic organisms.
SPECIAL PRECAUTIONS - (IF ANY)	N/A
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with plenty of water. Eyes: Immediately flush eyes with water for 15 min. keeping eyelids open. See physician. Internal: If ingested, wash mouth and dilute by giving one or two glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.

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ITEM NO. IAPS-B16

11/14/07

CHEMICAL NAME & SYNONYMS -	Copper (II) Chloride 50,000ppm
CAS No.(s) -	7732-18-5; 10125-13-0
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Copper (II) Chloride and water. pH > 2
APPEARANCE AND ODOR -	Clear, blue liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	Reacts with strong alkalis
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact and incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	May cause skin irritation. May cause eye irritation or damage. Harmful when ingested. Prolonged inhalation may cause irritation of the upper respiratory track.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	1mg/cu.m for copper dusts and mists as Cu
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Absorb with sand or vermiculite and place in a suitable container.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with federal, state and local regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles.
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with plenty of water. Internal: If swallowed large quantities, give a conscious person two glasses of water or milk, and induce vomiting supervised by first-aid personnel. Consult a physician immediately. If smaller quantities were ingested seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

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ITEM NO. IAPS-B17

11/14/07

CHEMICAL NAME & SYNONYMS -	Potassium Hydroxide (1% KOH)
CAS No.(s) -	7732-18-5; 1310-58-3
USED IN LAB-AIDS KIT # ('s) -	Issues and Physical Science
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture/Solution
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Potassium hydroxide and water
APPEARANCE AND ODOR -	Clear, colorless solution
INCOMPATIBILITY - (MATERIALS TO AVOID)	Reactive with organic materials and metals
DOT CLASS -	Corrosive liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid body contact and incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	Corrosive to skin, eyes and gastrointestinal track
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Neutralize with dilute solution of acetic acid. Absorb with sand or vermiculite and place in suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	May be flushed down the drain. Place container in trash.
SPECIAL PRECAUTIONS - (IF ANY)	All disposals must comply with Federal, State and Local regulations.
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with plenty of water and remove contaminated clothing. Seek immediate medical attention if irritation or burns develop. Internal: If swallowed, do not induce vomiting. Give a conscious person two glasses of water or milk. Consult a physician immediately. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.



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ITEM NO. IAPS-B24

11/14/07

CHEMICAL NAME & SYNONYMS -	0.6 M Hydrochloric Acid
CAS No.(s) -	7732-18-5; 7647-01-0
USED IN LAB-AIDS KIT # ('s) -	Issues and Physical Science
FORMULA -	HCl
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Fully miscible in water
APPEARANCE AND ODOR -	Clear liquid, slight pungent odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidants
DOT CLASS -	Corrosive liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Strong oxidants. Avoid body contact.
HEALTH HAZARDS - (OVEREXPOSURE)	Corrosive to skin, eyes and gastrointestinal track.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None established
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Contain and neutralize the spill with acid neutralizer. Absorb with sand or vermiculite and place in suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	Discharge, treatment or disposal may be subject to Federal, State or Local laws. Dilute with 20 X water. Add sodium carbonate or sodium hydroxide solution. Bring pH to neutral and flush the solution down the drain.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Skin: Wash affected parts with plenty of water and remove contaminated clothing. Seek immediate medical attention if irritation or burns develop. Internal: If swallowed, wash mouth and give a conscious person two glasses of water or milk. Seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air. Call a physician if necessary.

N/A - NOT APPLICABLE

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ITEM NO. C1-1-30E

11/14/07

CHEMICAL NAME & SYNONYMS -	3% Hydrogen Peroxide Solution
CAS No.(s) -	7732-18-5; 7722-84-1; 0067-64-1; 0103-84-4
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	Mixture
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Hydrogen peroxide, water, < 6% Acetone and Acetanilide
APPEARANCE AND ODOR -	Clear, colorless, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	Organic materials, heat, reducing agents, rust, alkalis
DOT CLASS -	Not regulated
REACTIVITY -	Stable under ordinary conditions of use and storage
CONDITIONS TO AVOID - (IF ANY)	Incompatibles. Do not use this product to disinfect wounds and not to be used in cosmetics.
HEALTH HAZARDS - (OVEREXPOSURE)	No adverse effects expected on intact skin. Contact on burn or open skin may cause stinging pain or irritation. Causes eye irritation. Large oral doses may cause irritation and blistering to the mouth, throat or abdomen.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	750ppm STEL for acetone
FIRE HAZARDS - (IF ANY)	Concentration of acetone in this solution is too small to pose a fire threat
SPIILLS AND LEAKS -	Absorb with sand or vermiculite and place in suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with plenty of water. Eyes: Flush with running water for 15 min. keeping eyelids open. Get medical attention immediately. Internal: If ingested wash mouth and dilute by giving 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention. Inhalation: Transport to fresh air. Get medical attention if necessary.

11/14/07

CHEMICAL NAME & SYNONYMS -	Iron Strips
CAS No.(s) -	7439-89-6
USED IN LAB-AIDS KIT # (s) -	Waste Disposal; Computers and the Environment
FORMULA -	Fe
FORMULA WEIGHT (F.W.) -	55.85 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 7.87 Insoluble in water
APPEARANCE AND ODOR -	Grey black, shiny metallic luster
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong oxidizing agents
DOT CLASS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid incompatibles
HEALTH HAZARDS - (OVEREXPOSURE)	Material considered to be non hazardous
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPIILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	Dispose of in accordance with federal, State and Local regulations
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE (DANGEROUS)	Internal: If ingested see physician

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ITEM NO. C1-MGX1

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Magnesium Ribbon</b>
CAS No.(s) -	7439-95-4
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	Mg
FORMULA WEIGHT (F.W.) -	24.31 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Sp. Gr. 1.74 Not soluble in water Density 0.063 pounds per cubic inch
APPEARANCE AND ODOR -	Silvery white, odorless, metal ribbon
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid open flame
DOT CLASS -	Flammable solid
REACTIVITY -	Will react with water and acids to release flammable hydrogen
CONDITIONS TO AVOID - (IF ANY)	Heat, spark, open flame Store away from other combustibles or flammables
HEALTH HAZARDS - (OVEREXPOSURE)	toxic as a dust or fume
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	As fume 5mg/M <sup>3</sup>
FIRE HAZARDS - (IF ANY)	Flammable solid. Do not use a hydrous (like CO <sub>2</sub> ) extinguisher. Use dry sand or Class D extinguisher.
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD - (CONSIDERATIONS)	Place container in an approved landfill site
SPECIAL PRECAUTIONS - (IF ANY)	Avoid directly viewing burning magnesium. Intense white flame may cause eye injury. Wear face protection.
FIRST AID - (IF SUBSTANCE DANGEROUS)	Eyes: Wash continuously for 15 min., see physician Ingestion: Seek immediate medical attention Respiratory: Transport to fresh air

N/A - NOT APPLICABLE

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ITEM NO. C1-ZSX16E

11/14/07

CHEMICAL NAME & SYNONYMS -	Zinc Strips
CAS No. (s) -	7440-66-6
USED IN LAB-AIDS KIT # (S) -	Waste Disposal: Computers and the Environment
FORMULA -	Zn
FORMULA WEIGHT (FW) -	65.37 g/mol
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Not soluble in water Soluble in acids and alkalis Sp. Gr. 7.15
APPEARANCE AND ODOR -	Shiny white metal with bluish-gray luster
INCOMPATIBILITY - (MATERIALS TO AVOID)	Strong acids and bases, halogen gases, oxidizers
REGULATIONS -	Not regulated
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid incompatibles
HEALTH HAZARDS - (HAZARD STATE)	Material considered non-hazardous
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Gather up material in a pile and place in a suitable container
DISPOSAL METHOD - (CONCENTRATION)	Dispose of in accordance with federal, State and Local regulations
SPECIAL PRECAUTIONS - (IF ANY)	Use prudent laboratory procedures
FIRST AID - (IF EXPOSURE) (DANGEROUS)	Internal: If ingested see physician

# Lab-aids<sup>®</sup>

INCORPORATED

## MATERIAL SAFETY DATA SHEET

ITEM NO. C1-1-41E

11/14/07

CHEMICAL NAME & SYNONYMS -	Luminol Solution (0.4% sodium hydroxide, 0.5% luminol)
CAS No.(s) -	7732-18-5; 1310-73-2; 521-31-3
USED IN LAB-AIDS KIT # (s) -	Issues, Evidence and You (2003)
FORMULA -	Mixture/Solution
FORMULA WEIGHT (FW.) -	Mixture/Solution
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: water, sodium hydroxide and luminol
APPEARANCE AND ODOR -	Clear, yellowish, odorless liquid
INCOMPATIBILITY - (MATERIALS TO AVOID)	Contact with metals such as aluminum, magnesium, tin or zinc
DOT CLASS -	Corrosive liquid
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid all body contact and incompatible materials
HEALTH HAZARDS - (OVEREXPOSURE)	Material is corrosive to eye and mucous membrane Contact with skin can cause irritation
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Contain and neutralize with alkali neutralizer and absorb with sand or vermiculite and place in a suitable container.
DISPOSAL METHOD - (CONSIDERATIONS)	All disposals must comply with Federal, State and Local regulations.
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles Use prudent laboratory procedures
FIRST AID - (IF SUBSTANCE DANGEROUS)	Skin: Wash affected parts with plenty of water and remove contaminated clothing. Internal: If swallowed, wash mouth and give a conscious person two glasses of water or milk. Seek immediate medical attention. Eyes: Flush with water and continue washing for 15 min. lifting upper and lower eyelids. Seek immediate medical attention. Respiratory: Transport to fresh air.

N/A - NOT APPLICABLE

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(631) 737-1133

**LaB-aids**  
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**MATERIAL SAFETY DATA SHEET**

ITEM NO. C1-1-42E

11/14/07

CHEMICAL NAME & SYNONYMS -	<b>Luminol Activator</b> <b>(0.6% Sodium hypochlorite)</b>
CAS No.(s) -	7732-18-5; 7681-52-9
USED IN LAB-AIDS KIT # ('s) -	Issues, Evidence and You (2003)
FORMULA -	Mixture/Solution
FORMULA WEIGHT (F.W.) -	Mixture
PHYSICAL DATA - (DENSITY, SOLUBILITY, ETC.)	Mixture consists of: Chlorine bleach and water
APPEARANCE AND ODOR -	Clear, colorless solution with a very mild bleach odor
INCOMPATIBILITY - (MATERIALS TO AVOID)	Avoid contact with metals, reducing agents, ammonia and acids, rust removers
DOT CLASS -	Not restricted
REACTIVITY -	Stable
CONDITIONS TO AVOID - (IF ANY)	Avoid incompatibles and do not mix with other household chemicals
HEALTH HAZARDS - (OVEREXPOSURE)	May cause irritation to eyes or skin. Vapor or mist may irritate. Harmful if swallowed.
TOLERANCE LIMIT VALUE (TLV) (IF ESTABLISHED) -	None
FIRE HAZARDS - (IF ANY)	Non flammable
SPILLS AND LEAKS -	Mop up or absorb with an inert dry material and place in a suitable container. Wash area and let dry.
DISPOSAL METHOD - (CONSIDERATIONS)	Rinse the solution down the drain with a ten-fold excess of water
SPECIAL PRECAUTIONS - (IF ANY)	Use gloves and chemical splash safety goggles
FIRST AID - (IF SUBSTANCE (DANGEROUS))	Skin: Wash affected parts with plenty of water and remove contaminated clothing. Internal: If ingested, wash mouth and have a conscious person drink two glasses of water or milk. Seek immediate medical attention. Eyes: Wash continuously for 15 min. lifting upper and lower eyelids. Seek medical attention. Respiratory: Transport to fresh air. Seek medical attention if necessary.