Educational Innovations, Inc.

Material Safety Data Sheet (MSDS)

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sodium Borate Solution

Educational Innovations, Inc. 5 Francis J. Clarke Circle, Bethel, CT 06801

SECTION 2 -- COMPOSITION, INFORMATION INGREDIENTS

Sodium Borate (1330-43-4) 4%, Water (7732-18-5) 96% CAS #: not established

SECTION 3 -- HAZARDS IDENTIFICATION

Colorless, odorless solution.

Possible skin irritant. Avoid body tissue contact.

Health-0 Flammability-0 Reactivity-0 Exposure-1 Storage-0

0 is low hazard, 3 is high hazard

SECTION 4 -- FIRST AID MEASURES

Call a physician, seek medical attention for further treatment, observation and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

SECTION 5 -- FIRE FIGHTING MEASURES

Non flammable, non combustible liquid.

NFPA CODE None Established

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. See Section 8 and 13 for further information.

SECTION 7 -- HANDLING AND STORAGE

Store with borates, chromates, manganates and permanganates.

5 Francis J. Clarke Circle Bethel, CT 06801 (203) 748-3224 voice (203) 229-0740 fax www.TeacherSource.com

Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form)
Form Approved
OM8 No. 1218-0072



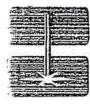
1	
IDENTITY (As Used on Labor and Less Polyvinyl Alcohol North Special Section is available, the spece must be marked to indice a their	marked to indicate that
ational 5 Francis J. Clarke Circle 219/762-3165	5
Innovations Bethel, CT 06801 Telephone Number for Information	
MANATORNICIONICO COTT. OBLIBORE DE LIBORE (COCCAM)	
Section II Hazardous ingredients/identity information	
Hazardous Components (Specific Chemical Identity, Common Name(s)) OSHA PEL ACGIH TLV Rec	Other Umits Recommended % (optional
None	
Physical/Chemical Characteristics	
None Solid Specife Grawly (140 - 1)	
Vapor Pressure (mm Hg.) None Solid Meting Point	1.265-1.255
	1.265-1
Solid	1.265-1.3 1400F.
None Solid Evaporator Rus But 1400F.	1.265-1 1400F. Solid
None Solid (Suny Acetain - 1) ble at 1400F.	1.265-1.3 1400F. Solid
None Solid (Buny Assaus - 1) ble at 1400F. and Explosion Hazard Data	1.265-1.3 1400F. Solid
Hone Solid (Buny Assaus * 1) None ble at 140°F. and Explosion Hazard Data Planmable Units	1.265-1 1400F. Solid
Hone Solid (Buny Assaus - 1) None ble at 1400F. and Explosion Hazard Data None Parmacia Luncs D02, Nater	1.265-1.3 1400F. Solid
None Solid ble at 1400F. Britan Representation None 102, Water	
Mone Solid ble at 140°F. and Explosion Hazard Data no None 10°2, Water	

(Reproduce locally)

DERA 174 Care 1084

+ USGPO 1986.491.324-3175

Stability A -	Stability Unstable	Conditions to Avoid		
	Stable	×		
Incompatibility (A	incompatibility (Materials to Avoid)	None		
Hazardous Decorr	Hazardous Decomposition or Byproducts	-		
Hazardous Polymerization	May Occur	Conditions to Avoid	N/A	
	Will Not Occur	×		/-
Section VI -	Health Hazard (ata		
Route(s) of Entry:			Skin?	Ingestion?
Health Hazards (4	Health Hazards (Acute and Chronic)			
Carcinogenicity	NIPO		IARC Monographs?	OSHA Regulated?
Signs and Symptoms of Exposure	onts of Exposure			
Medical Conditions Generally Aggravated by Exposure	na nated by Exposure	None		
Emergency and i	Emergency and First Aid Procedures			
Section VII -	- Precautions for	Section VII - Precautions for Safe Handling and Use		
Steps to Be Take	Steps to Be Taken in Case Material is Released or	Released or Spilled		1
None.	. Material is	s a solid		
Waste Disposal Method	Method			
Precautions to 8	Precautions to Be Taken in Handling and Storing	und Storing		
None	other than	stated on carton-end	label	
Other Precautions	None			
Section VIII	Section VIII — Control Measures	Inte		
Respiratory Prote	Respiratory Protection (Specify Type)			
Vertilation	Local Exhaust	N/A	Special	N/A
N/A	Mechanical (General	N/A	CONTRACTOR	N/A
PRODUCTIVE CHOWS	•	N/A	Eye Projection	N/A
Work/hysienic Practical	Workshoonic Practical	N/A		
WOODCHANG P	ractoss			



Material Safety Data Sheet

VERSION DATE: 07/05/93

Committee and the second secon	000000000000000000000000000000000000000
MSDS NUMBER: 1154248000	II M I S Ilazard Codes
PRODUCT NAME: GLO-LUX SERIES 1000	Health:
CLASS: ZINC SULFIDE MIXTURE	Flamibility: Reactivity:
	Personal Protective Equipment:
Section II HAZARDOUS INGREDIENTS	JS INGREDIENTS
INGREDIENT: 5.WT	FEL OSIA TLV/ACGIII UNIT
ZINC SULFIDE 1.5 (C	1.5 (CAS# 68611-70-1) NE NE NA
(Reportable under SARA 313)	
Section III PHYSICAL DATA	ICAL DATA
PHYSICAL DATA:	
HIO SOLUBLE: INSOLUBLE	DENSITY: NA
H:O REACTIVE: NO	% VOLATILE BY VOLUME: NA
VAPOR DENSITY: NA	FREEZING RANGE: NA
SPECIFIC GRAVITY: 4.03	BOILING RANGE: NA
AFFEARANCE AND ODOR: YELLOW/GREEN CRYSTALLINE POWDER	LINE POWDER
FIRE AND EXP	FIRE AND EXPLOSION HAZARDS
EXTINGUISHING MEDIA: SECTIA EDE ECUTIVO SECTIONES MEDIA SUITABLE FOR SURROUNDING FIRE	OR SURROUNDING FIRE.
WEAR SELF-CONTAINED BREATHING APPARATUS UNUSUAL HAZARDS:	PARATUS.
WHEN MATERIAL IS EXPOSED TO HIGH SULFUR AND /OR HYDROGEN SULFIDE.	WHEN MATERIAL IS EXPOSED TO HIGH TEMPERATURES IT MAY PRODUCE OXIDES OF SULFUR AND /OR HYDROGEN SULFIDE.
REACT	REACTIVITY DATA

HEALTH INFORMATION

attributed to Zinc Sulfide Ingestion may cause nausea, vomiting, diarrhea and abdominal pains. Inhalation may Zinc Sulfide is considered to be of LOW Toxicity. There are no reports in the literature of adverse effects result in lung injury. Skin contact may cause rash, reddness or dermatitis.

EMERGENCY AND FIRST AID PROCEDURE: EFFECTS OF OVEREXPOSURE:

INHALATION: (IF PULMONARY INVOLVEMENT DEVELOP) Remove from exposure immediately and obtain medical attention

SKIN CONTACT: Wash affected areas with soap and water. If irritated, seek medical attention. INGESTION: Large quantities of water to drink. Induce vomiting and obtain medical attention EYE CONTACT: Flush with water (Lift lids) for fifteen (15) minutes. If irritated, seek medical attention.

CARCINOGEN: IARC: No NTP: No

OSHA: No

SPILL OR LEAK PROCEDURE

oray. ATERIAL SPILLAGE: Absorb with sand and dispose of in approved manner. Dike area with sand to contain villed liquid. Recover free product. Use water spray to ditute spill. Flush the contaminated area with water

ASTE DISPOSAL: Dispose of in accordance with Local regulations. Keep product out of sewers and waterways

EMPLOYEE PROTECTION

oors. Ensure fresh air entry during application and drying. spors in areas of poor ventilation. If airborne concentrations exceed PEL (see II) use supplied air respirator ENTILATION: Provide adequate cross air circulation. To avoid breathing vapors or spray, open windows YE PROTECTION: Splashproof safety goggles to protect against splash. This product contains eye irritating ROTECTIVE GLOVES: Wear impervious gloves (Neoprene) to minimize skin contact. Use butyl rubber, ESPIRATORY PROTECTION: Maintain good ventilation. NESA/NIOSH approved respirator for organic YGIENIC PRACTICES: Wash hands before eating or using washroom THER PROTECTIVE EQUIPMENT: Eyewash station (fountain). A source of clean water to flush eyes and ranex gloves for maximum protection.

SPECIAL PRECAUTIONS

ANDLING AND STORAGE PRECAUTIONS

THER PRECAUTIONS

heck all containers for leaks.

o not take internally. cep containers closed when not in use

TRANSPORTATION AND REGULATORY DATA

RANSPORTATION DATA: UN/NA Number: (NOT REGULATED) EPA RCRA

lazard Class: NON-HAZARDOUS 0.0.1 Class:

No On Inv

SARA Section 313 Toxic Chemicals OTHER REGULATORY CONTROLS hipping Name: GLO-LUX 1000 ERCLA Reportable Qnty:

ZINC OXIDE ETHYLENE GLYCOL BUTYL Chemical CAS Number Weight % 111-76-2 3.53 1314-13-2 Fire Release React ××

FOLYMERIZATION CONDITIONS TO AVOID: N/A

POLYMERIZATION: N

HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: HYDROGEN SULFIDE, OXIDES OF SULFUR, ZINC OXIDE INCOMPATIBILITY: GONTACT WITH MINERAL ACIDS CAN PRODUCE HYDROGEN SULFIDE.

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