GraphLine Inc.

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MATERIAL SAFETY DATA SHEET

IN CASE OF TRANSPORTATION EMERGENCY (Spill, Leak, Fire, Exposure, Accident)

Call CHEMTREC 1-800-424-9300 (24 Hour)

SECTION 1: IDENTIFICATION

Name: Colorlok Silverplate Activator

Revision 1/4/2007

Product Number 555329400

Size 5 liter

Formula Aqueous Alkaline Solution

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

C.A.S. #	<u>INGREDIENTS</u>	%
111-41-1	AMINO-ETHYLETHANOLAMINE	1- 5
1310-58-3	POTASSIUM HYDROXIDE	1- 5
7732-18-5	Water	80- 95

EXPOSURE LIMITS	OSHA		A	ACGIH		CANADA	
	TWA	STEL	TWA	STEL	TWA	STEL	
AMINO-ETHYLETHANOLAMINE	None	None	None	None	None	None	
POTASSIUM HYDROXIDE	2 mg/m3	None	None	None	None	None	
Water	None	None	None	None	None	None	

Source of Exposure Limit Data:

OSHA: Occupational Safety and Health Administration

ACGIH: American Conference of Governmental Industrial Hygienists

CANADA: Province of Alberta's Occupational and Health and Safety Act.

ADDITIONAL EXPOSURE INFORMATION

	SK	SKIN DESIGNATION *			RCINOGE	NS		
CAS. NUMBER	<u>OSHA</u>	<u>ACGIH</u>	CANADA	<u> IARC</u>	NTP	<u>OSHA</u>	PRIMARY HAZARD	IDLH (ppm)
111-41-1	No	No	No	Nο	No	No	Not classified	None
1310-58-3	No	No	No	No	No	No	Sensory irritation	None
7732-18-5	No	Nα	No	No	No	No	Not classified	None

^{*} For substances designated as a 'Skin' hazard, protective measures are recommended to prevent or reduce skin absorbtion. These measures may include the use of gloves, aprons, goggles or other equipment, as well as engineering controls or work practices.

SECTION 3: HAZARDS IDENTIFICATION

EYES CONTACT:

May cause severe eye irritation and burning: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

May cause severe skin irritation and burning: signs/symptoms can include redness, swelling, itching, and dryness.

INHALATION:

Normally not a problem, but inhalation of mists could cause respiratory irritation. Asthmatics and sensitive individuals may experience a reaction to low levels of Sulfur Dioxide.

INGESTION:

May cause severe irritation or burning of the mucous membranes or digestive tract. Sulfite sensitive individuals may experience an allergic reaction.

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H.M.I.S. CODES:

HEALTH: 3

FIRE: 0

REACTIVITY: 0

PROTECTION:

В

SECTION 4: FIRST AID MEASURES

EYE CONTACT:

Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Contact physician immediately (preferably an opthalmologist)

SKIN CONTACT:

Rinse with copious amounts of water and/or wash with soap and water for at least 15 minutes. If irritation occurs, contact physician.

INHALATION:

Remove victims to fresh air, if not breathing, have certified person administer CPR. Contact physician immediately.

INGESTION:

Administer 2-4 glasses milk or water. Contact physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Flash point (F):

N/A

FLAMMABILITY LEL- N/A

UEL- N/A

Extinguishing media:

Use appropiate agent for surrounding fire.

Special fire fighting procedures:

Self contained breathing apparatus with full face shield and protective clothing should be worn in fighting fires involving chemicals.

Unusual fire and explosion hazards:

When heated to decomposition emission of toxic SO2 is possible.

NATIONAL FIRE PROTECTION ASSOC. CODES

HEALTH: 3

FIRE: 0

REACTIVITY: 0

SPECIAL: NONE

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE:

Dike spill and soak up with sand or a commercially available alkaline spill kit. Sweep up absorbant and place in a hazardous waste container.

SECTION 7: HANDLING AND STORAGE

For Industrial Use Only. Store in well ventilated area. Keep container closed when not in use. Remove and wash contaminated clothing immediately. Do not store food, drink, or tobacco in area where they may become contaminated with this material.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: None needed with working mixtures and normal room ventilation (10 air changes per hour) Avoid use of product in unventilated areas. Always control airborne levels below recommended guidelines. EYE PROTECTION: Safety glasses with side shields or goggles should be worn. SKIN PROTECTION: Rubber or plastic apron. Chemical resistant gloves.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling point (F):

221

Volatile Organic Compounds:

N/D

Melting point:

N/A

Vapor pressure:

N/D

Percent volatile by volume:

N/D

Vapor density:

Evaporation rate: N/D

100% Solubility in water:

Specific gravity (water = 1) 1.07

Appearance: Clear, colorless, liquid.

pH: >13

Odor: Odorless

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SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Hazardous polymerization:

Will not occur

Incompatibility (materials to avoid):

Strong oxidizers, strong acids

Hazardous decomposition products:

Oxides of sulfur

SECTION 11: DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State, and local regulations. Product would be considered a hazardous waste under RCRA due to high pH unless neutralized prior to disposal.

While this product is formulated for disposal to a sewage treatment plant, local regulations vary. Therefore, consult local sewer authority prior to disposing in a sanitary sewer. Local regulations may require that this product be neutralized prior to disposal.

SECTION 12: TRANSPORTATION INFORMATION

SHIPPING NAME: POTASSIUM HYDROXIDE, SOLUTION

UN ID-#: 1814

PACKING GROUP: II

MAJOR CLASS: 8

PRIMARY LABEL: CORROSIVE

MINOR CLASS: N/A

SECONDARY LABEL: N/A

REMARKS:

SECTION 13: REGULATORY INFORMATION

CAS. NUMBER	CERCLA	SARA-EHS	SARA-313	RCRA	CAL-PROP 65	<u>N.J.</u>	FLA.
111-41-1	No	No	No	No	No	No	Yes
1310-58-3	Yes	No	Nο	Nο	No	Yes	Yes
7732-18-5	No	No	No	No	No	Νο	No

^{*} Specific CAS Number references from these regulatory tables:

CERCLA: 40 CFR, Table 302.4

CAL-PROP 65: California Proposition 65, Developmental and Reproductiv

SARA-EHS: 40 CFR. 355 Appendices A B SARA-313: 40 CFR. section 372.65

New Jersey Right to Know

RCRA: 40 CFR. section 261.3

Florida Right to Know

SECTION 14: OTHER INFORMATION

Comments:

The data in this Material Safety Data form relates to the specific material designated herein and to the standard use of same in combination with other materials or processes. The hazards covered are beleived to be those most likely to occur in the reasonable, contemplated, or ordinary use of these chemicals. No warranty is made or implied in respect of other hazards which may occur as a result of unreasonable, abnormal, or unusual usage, or non-standard application of these materials. The information accumulated herein is beleived to be accurate, but GraphLine Inc. expressly denies any warranty to such effect. Customers or recipients are advised to confirm, in advance that the information is current, applicable and suitable to their circumstances. This information is furnished as a service only.

^{*} Reference: CFR 49, Table 172,102 (highway)