

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: GRAPHLINE HIGH DEFINITION DEV RTU

Revision 2/18/2003

Product Number 3140242204

Size 4 X 5 QT.

Formula: Aqueous Mixture

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>C.A.S. #</u>	<u>INGREDIENTS</u>	<u>%</u>
111-46-6	DIETHYLENE GLYCOL	.5- 1
123-31-9	HYDROQUINONE	1- 5
1310-58-3	POTASSIUM HYDROXIDE	<1 0
584-08-7	POTASSIUM CARBONATE	1- 2
7732-18-5	WATER	85- 90

<u>EXPOSURE LIMITS</u>	<u>OSHA</u>		<u>ACGIH</u>		<u>CANADA</u>	
	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>
DIETHYLENE GLYCOL	None	None	None	None	None	None
HYDROQUINONE	2 mg/m3	None	2 mg/m3	None	2 mg/m3	4 mg/m3
POTASSIUM HYDROXIDE	2 mg/m3	None	None	None	None	None
POTASSIUM CARBONATE	None	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

<u>CAS. NUMBER</u>	<u>SKIN DESIGNATION *</u>			<u>CARCINOGENS</u>			<u>PRIMARY HAZARD</u>	<u>IDLH (ppm)</u>
	<u>OSHA</u>	<u>ACGIH</u>	<u>CANADA</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>		
111-46-6	No	No	No	No	No	No	Not classified	None
123-31-9	No	No	No	No	No	No	Not classified	Unknown
1310-58-3	No	No	No	No	No	No	Sensory irritation	None
584-08-7	No	No	No	No	No	No	Not classified	None
7732-18-5	No	No	No	No	No	No	Not classified	None

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

HYDROQUINONE- Ld-Lo (HUMAN) 29 Mg/Kg

SECTION 3: HAZARDS IDENTIFICATION

EYES CONTACT:

May cause irritation or damage to tissue.

SKIN CONTACT:

May cause irritation.

INHALATION:

May cause irritation to nasal mucous membranes and respiratory tract.

INGESTION:

May cause irritation or corrosion to digestive tract.

H.M.I.S. CODES:**HEALTH: 3****FIRE: 0****REACTIVITY: 1****PROTECTION: D****SECTION 4: FIRST AID MEASURES****EYE CONTACT:**

Immediately flush with large amounts of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Contact physician immediately. preferably an ophthalmologist)

SKIN CONTACT:

Rinse with copious amounts of water and/or wash with soap and water for at least 20 minutes. If irritation occurs, contact physician.

INHALATION:

Remove victim 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.

SECTION 5: FIRE FIGHTING MEASURES**Flash point (F) :** None**FLAMMABILITY LEL- N/A****UEL- N/A****Extinguishing media:** ANY APPLICABLE TO SURROUNDING FIRE.**Special fire fighting procedures :**

USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual fire and explosion hazards :

NONE

NATIONAL FIRE PROTECTION ASSOC. CODES**HEALTH: 3****FIRE: 0****REACTIVITY: 1****SPECIAL: N/A****SECTION 6: ACCIDENTAL RELEASE MEASURES****SPILL RESPONSE:**

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

SECTION 7: HANDLING AND STORAGE

Store in well ventilated area. Keep container tightly closed. Remove and wash contaminated clothing immediately. Do not store near heat. 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: Not Applicable. VENTILATION: Local Exhaust: Recommended. MECHANICAL

(General): Should be sufficient. SKIN PROTECTION: Latex, Rubber or Neoprene Waterproof gloves. EYES

PROTECTION: Safety glasses with side shields or goggles are recommended. OTHER PROTECTION EQUIPMENT:

Rubber or plastic apron.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling point (C) : >100
Melting point: N/A
Percent volatile by volume : 90
Evaporation rate: <1 (N-Butyl Acetate=1)
Specific gravity (water = 1) : 1.275
Appearance : COLORLESS

Volatile Organic Compounds: N/A
Vapor pressure: 17.0
Vapor density: .6
Solubility in water: COMPLETE
pH: 10.35
Odor: ODORLESS

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable
Hazardous polymerization: Will not occur
Incompatibility (materials to avoid): Strong acids, strong bases
Hazardous decomposition products: SULFUR DIOXIDE GAS

SECTION 11: DISPOSAL CONSIDERATIONS

Remove free liquid and dispose of in accordance with Federal, State, and local regulations.

SECTION 12: TRANSPORTATION INFORMATION

SHIPPING NAME: NOT REGULATED MATERIAL

UN ID-#: N/A

PACKING GROUP: N/A

MAJOR CLASS: N/A

PRIMARY LABEL: N/A

MINOR CLASS: N/A

SECONDARY LABEL: N/A

REMARKS: NOT REGULATED MATERIAL

* Reference: CFR 49, Table 172.102 (highway)

SECTION 13: REGULATORY INFORMATION

<u>CAS. NUMBER</u>	<u>CERCLA</u>	<u>SARA-EHS</u>	<u>SARA-313</u>	<u>RCRA</u>	<u>CAL-PROP 65</u>	<u>N.J.</u>	<u>FLA.</u>
111-46-6	No	No	No	No	No	No	No
123-31-9	Yes	Yes	Yes	No	No	Yes	Yes
1310-58-3	Yes	No	No	No	No	Yes	Yes
584-08-7	No	No	No	No	No	No	No
7732-18-5	No	No	No	No	No	No	No

* Specific CAS Number references from these regulatory tables:

CERCLA: 40 CFR. Table 302.4

SARA-EHS: 40 CFR. 355 Appendices A B

SARA-313: 40 CFR. section 372.65

RCRA: 40 CFR. section 261.3

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

New Jersey Right to Know

Florida Right to Know

SECTION 14: OTHER INFORMATION

Comments: None

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 believed 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 believed 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.