

# GraphLine Inc.<sup>®</sup>

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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/REP CONCENTRATE

Revision 2/18/2003

Product Number 6018113003

Size 2.5 GAL.

Formula: Aqueous Mixture

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

C.A.S. #	INGREDIENTS	%
123-31-9	HYDROQUINONE	1- 5
1310-58-3	POTASSIUM HYDROXIDE	1- 2
584-08-7	POTASSIUM CARBONATE	5- 10
7732-18-5	WATER	65- 75

EXPOSURE LIMITS	OSHA		ACGIH		CANADA	
	TWA	STEL	TWA	STEL	TWA	STEL
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

CAS. NUMBER	SKIN DESIGNATION *			CARCINOGENS			PRIMARY HAZARD	IDLH (ppm)
	OSHA	ACGIH	CANADA	IARC	NTP	OSHA		
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:**

Irrigate with water for 20min. contact physician (preferably an ophthalmologist) immediately.

**SKIN CONTACT:**

Rinse with copious amounts of water and/or wash with soap and water for 20 minutes. If irritation persists contact a 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.

**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 absorbant 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**

Local exhaust recommended.- Respiratory protection N/A.- Wear chemical safety goggle/face shield. - Protective gloves should be made of latex, rubber or neoprene.- Rubber or plastic apron recommended.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Boiling point (C) : 100

Melting point: N/A

Percent volatile by volume : 50

Evaporation rate: 1 (N-Butyl Acetate=1)

Specific gravity (water = 1) : 1.275

Appearance : LIGHT YELLOW

Volatile Organic Compounds: N/A

Vapor pressure: 17.0

Vapor density: .6

Solubility in water: COMPLETE

pH: 10.7

Odor: ODORLESS

