

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: HIGH DEFINITION DEV/REP CONCENTRATE

Revision 5/5/2005

Product Number 6018113004A

Size 2 X 2.5 Gallons

Formula: Aqueous Mixture

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

<u>C.A.S. #</u>	<u>INGREDIENTS</u>	<u>%</u>
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

<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>
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>		
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 20 min. 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 : Pale yellow

Volatile Organic Compounds: N/A

Vapor pressure: 17.0

Vapor density: .6

Solubility in water: COMPLETE

pH: 10.7

Odor: ODORLESS

