

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 RAPID ACCESS FIXER

Revision 2/19/2004

Product Number 3140318202

Size 4 x 5 Quarts

Formula: Aqueous Mixture

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

C.A.S. #	INGREDIENTS	%
64-19-7	ACETIC ACID	1- 5
7732-18-5	WATER	75- 85
7757-83-7	Sodium Sulfite	1- 5
7783-18-8	AMMONIUM THIOSULFATE	10- 20

EXPOSURE LIMITS	OSHA		ACGIH		CANADA	
	TWA	STEL	TWA	STEL	TWA	STEL
ACETIC ACID	10 ppm	None	25 mg/m3	37mg/m3	26 mg/m3	39 mg/m3
WATER	None	None	None	None	None	None
Sodium Sulfite	None	None	None	None	None	None
AMMONIUM THIOSULFATE	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		
64-19-7	No	No	No	No	No	No	Sensory irritation	1000
7732-18-5	No	No	No	No	No	No	Not classified	None
7757-83-7	No	No	No	No	No	No	Not classified	None
7783-18-8	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.

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:****FIRE:****REACTIVITY:****PROTECTION:****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 first aid /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 primary cause of fire.**Special fire fighting procedures :**

May produce oxides of sulfur, nitrogen and carbon. Wear NIOSH approved self contained breathing apparatus when entering building.

Unusual fire and explosion hazards :

None

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

Dike spill and soak up with sand or a commercially available acid spill kit, sweep up absorbent and place in a hazardous waste container.

SECTION 7: HANDLING AND STORAGE

Store away from strong oxidizers. Store in well ventilated area. Keep container tightly closed. Remove and wash contaminated clothing immediately. Do not store near heat. OTHER PRECAUTIONS: 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 (Special Type) N/A. VENTILATION: Local Exhaust recommended. SPECIAL - N/A. MECHANICAL (General) N/A. OTHER: N/A. PROTECTIVE GLOVES: Latex, rubber or Neoprene waterproof gloves. EYE PROTECTION: Chemical safety goggles/splash shield. OTHER PROTECTIVE EQUIPMENT: Rubber or plastic apron.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling point (C) : 100
Melting point: N/A
Percent volatile by volume : 60-65
Evaporation rate: <1 (N-Butyl Acetate=1)
Specific gravity (water = 1) : 1.13
Appearance : Colorless

Volatile Organic Compounds: None
Vapor pressure: 17.0
Vapor density: Approx. 0.6
Solubility in water: COMPLETE
pH: 4.6
Odor: Slight vinegar

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable
Hazardous polymerization: Will not occur
Incompatibility (materials to avoid): Strong acids and alkalis
Hazardous decomposition products: Sulfur Dioxide and ammonia

SECTION 11: DISPOSAL CONSIDERATIONS

Remove free liquid and dispose of in accordance with Federal, State & 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>
64-19-7	Yes	No	No	No	No	No	Yes
7732-18-5	No	No	No	No	No	No	No
7757-83-7	No	No	No	No	No	No	No
7783-18-8	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.