

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: UNIVERSAL FIXER CONCENTRATE

Revision 5/5/2005

Product Number 6017710013A

Size 2 X 2.5 Gallons

Formula: Aqueous Mixture

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

C.A.S. #	INGREDIENTS	%
64-19-7	ACETIC ACID	2- 6
7732-18-5	WATER	15- 20
7757-83-7	Sodium Sulfite	10- 15
7783-18-8	AMMONIUM THIOSULFATE	50- 60

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: 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 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 Sulfur dioxide and ammonia if exposed to intense heat. 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:** NONE

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, acids, bases . 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: N/A - LOCAL EXHAUST: Recommended - SPECIAL: N/A. - MECHANICAL: 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 : 33-45

Evaporation rate: <1 (Water=1)

Specific gravity (water = 1) : 1.32

Appearance : light yellow

Volatile Organic Compounds: N/D

Vapor pressure: 17.0

Vapor density: APPROX. 0.6

Solubility in water: COMPLETE

pH: 5.2

Odor: slight vineger odor

