

5701 N.W. 94th Ave.
Tamarac, Fl. 33321
800-998-3200**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** 07/28/1995**Product Number** 6017710013**Size** 5 GAL**Formula** Aqueous Mixture**SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS**

<u>C.A.S. #</u>	<u>INGREDIENTS</u>	<u>%</u>
1303-96-4	BORATES, TETRA, SODIUM SALTS (DECAHYDRATE)	0.5- 5
64-19-7	ACETIC ACID	5
7732-18-5	WATER	30- 40
7757-83-7	SODIUM SULFITE	5- 10
7783-18-8	AMMONIUM THIOSULFATE	45- 55

EXPOSURE LIMITS

	<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>
BORATES, TETRA, SODIUM SALTS (DECAHYDR)	None	None	5 mg/m3	None	5 mg/m3	10 mg/m3
ACETIC ACID	25 mg/m3	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

<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>		
1303-96-4	No	No	No	No	No	No	Sensory Irritation	None
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 15 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 15 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 absorbant 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 (F): >212
Melting point: N/A
Percent volatile by volume: 33-45
Evaporation rate: <1 (Water=1)
Specific gravity (water = 1) 1.35
Appearance: Clear to light yellow

Volatile Organic Compounds: N/D
Vapor pressure: N/D
Vapor density: N/A
Solubility in water: COMPLETE
pH: 5.3
Odor: Acetic acid odor

SECTION 10: STABILITY AND REACTIVITY

Stability Stable Hazardous polymerization: Will not occur.
Incompatibility (materials to avoid): Strong oxidizers, strong acids, strong bases.
Hazardous decomposition products: Sulfur Dioxide, Ammonia.

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- CHEMICAL NOI

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:

* 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>
1303-96-4	No	No	No	No	No	No	Yes
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 Reproductive

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 use, 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 to their circumstances. This information is furnished as a service only.

