

288 Brea Canyon Rd.
Industry, Ca 91789
909 859-8200

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: 2400 FIXER, READY-TO-USE

Revision 3/31/2009

Product Number 6017648004A

Size 2 X 2.5 Gallons

Formula: Aqueous Mixture

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

C.A.S. #	INGREDIENTS	%
1303-96-4	BORATES, TETRA, SODIUM SALTS (DECAHYDRATE)	<1
64-19-7	ACETIC ACID	1-5
7732-18-5	Water	70-75
7757-83-7	Sodium Sulfite	1-5
7783-18-8	AMMONIUM THIOSULFATE	15-20
77-92-9	CITRIC ACID	<1

EXPOSURE LIMITS	OSHA		ACGIH		CANADA	
	TWA	STEL	TWA	STEL	TWA	STEL
BORATES, TETRA, SODIUM SALTS (DECAHYDR)	2 mg/m3	6 mg/m3	5 mg/m3	None	5 mg/m3	10 mg/m3
ACETIC ACID	10 ppm	15 ppm	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
CITRIC ACID	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		
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
77-92-9	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:

Vapor may cause irritation. Contact may cause burns

SKIN CONTACT:

Prolonged and repeated contact may cause irritation.

INHALATION:

Low hazard for ordinary industrial handling.

INGESTION:

Do not take internally. May be harmful if swallowed.

H.M.I.S. CODES:**HEALTH:** N/A**FIRE:** N/A**REACTIVITY:** N/A**PROTECTION:** N/A**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:

Induce vomiting only as directed by medical personnel. Seek medical attention immediately giving full details of amount ingested and toxicity.

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:** N/A**FIRE:** N/A**REACTIVITY:** N/A**SPECIAL:** N/A**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 (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 : 75%

Evaporation rate: N/A (Water=1)

Specific gravity (water = 1) : 1.13

Appearance : Clear

Volatile Organic Compounds: None

Vapor pressure: 17.0

Vapor density: 0.6

Solubility in water: COMPLETE

pH: 4.6

Odor: Slight vinegar odor

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur

Incompatibility (materials to avoid): Strong acids and Strong bases

Hazardous decomposition products: Sulfur Dioxide, 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>
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
77-92-9	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.