

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: FIXER, RAPID ACCESS CONCENTRATE

Revision 5/10/2007

Product Number 278146003

Size 2X 2.5 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) | <1 |
| 64-19-7 | ACETIC ACID | 2- 6 |
| 7732-18-5 | Water | 25- 30 |
| 7757-83-7 | Sodium Sulfite | 4- 8 |
| 7783-18-8 | AMMONIUM THIOSULFATE | 45- 55 |
| 77-92-9 | CITRIC ACID | <1 |

| <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> |
| 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

| <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 |
| 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:**

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:

Drink water to dilute concentration. 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 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:** 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: 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 : 50%
Evaporation rate: N/A (Water=1)
Specific gravity (water = 1) : 1.32
Appearance : Clear, colorless

Volatile Organic Compounds: N/D
Vapor pressure: 17.0
Vapor density: 0.6
Solubility in water: COMPLETE
pH: 5.2
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 and 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:

SECONDARY LABEL:

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 |
| 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.