Inhalation: breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustion generates toxic fumes. During a fire, irritating and toxic gas fumes may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media: Use agent most appropriate to extinguish fire. Do NOT get water inside containers. In case of fire, use carbon dioxide, dry chemical powder or appropriate foam.

Autoignition: Not applicable.

Flash Point: Not available

Explosion Limits: Lower:

Explosion Limits: Upper:

NFPA Rating: health: 2; flammability: 0; instability: 1.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Place under an inert atmosphere. Do not get water inside containers.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation. Store protected from light. Handle under an inert atmosphere. Store protected from air. Do not allow contact with water. Keep from contact with moist air and steam.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Do not expose to air. Store protected from moisture. Store under an inert atmosphere.

Section 8 - Exposure Controls, Personal Protection

OSHA Vacated PELs: Tetracycline Hydrochloride: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirator: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties
Physical State: Solid
Color: yellow
Odor: none reported
pH: 2.1-2.3 (2% sol.)
Vapor Pressure: Not available
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: Not available
Melting Point: 213.9 deg C (417.02°F)
Decomposition Temperature:
Solubility in water: Soluble in water.
Specific Gravity/Density: Not available.
Molecular Formula: C22H24N2O8.HCl
Molecular Weight: 480.90
Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Substance undergoes color change upon exposure to light and air.
Conditions to Avoid: High temperatures, incompatible materials, light, dust generation, moisture, exposure to air, excess heat, strong oxidants.
Incompatibilities with Other Materials: Oxidizing agents, moisture, air.

Hazardous Decomposition Products: Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS: CAS# 64-75-5: QI9100000
RTECS:
LD50/LC50: CAS# 64-75-5: Oral, mouse: LD50 = 27.59 mg/kg;
Oral, rat: LD50 = 644.3 mg/kg.
Carcinogenicity: Tetracycline Hydrochloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Epidemiology: No information found
Teratogenicity: Teratogenic effects have occurred in experimental animals. Based upon 1944 pregnancy exposures, possible associations with congenital anomalies found in 61 infants: hypospadias (5 cases), inguinal hernia (47 cases), limb hypoplasia (6 cases), and clubfoot (3 cases). Adverse reproductive effects have occurred in experimental animals.
Neurotoxicity: No information found
Mutagenicity: Mutagenic effects have occurred in humans.
Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT
Shipping Name: CARBON DIOXIDE, SOLID USED FOR DIAGNOSTI
Hazard Class: 9
UN Number: UN1845

Section 15 - Regulatory Information

US Federal
TSCA
CAS# 64-75-5 is listed on the TSCA Inventory.

Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.

Section 12b
None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.

SARA Section 302
Extremely Hazardous Substances
None of the chemicals in this product have a TPQ.

SARA Codes
CAS # 64-75-5: chronic.

Section 313
This material contains Tetracycline Hydrochloride (CAS# 64-75-5, 100%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act:
None of the chemicals in this material do not contain any hazardous air pollutants. This material does not contain any Class I Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:
None of the chemicals in this product are listed as Hazardous Substances under the CWA.

OSHA:
STATE
Tetracycline Hydrochloride is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level:
None of the chemicals in this product are listed.

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XN
Risk Phrases:
R 36 Irritating to eyes.
R 63 Possible risk of harm to the unborn child.

Safety Phrases:
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water DANGER/Protection)
CAS# 64-75-5: Not available
Canada

CAS# 64-75-5 is listed on Canada's DSL List
Canadian WHMIS Classifications: D2A, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 64-75-5 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information
MSDS Creation Date: 7/15/1999
Revision #13 Date 11/28/2007
Revisions were made in Sections: 9

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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