

4 – FIRST-AID MEASURES

EYES: Flush with large amounts of water, lifting upper and lower lids occasionally. Remove contact lenses when/if safe to do so. Continue rinsing for a total of 15 minutes. Get professional medical attention if irritation persists.

SKIN: Remove contaminated clothing; launder before reuse. Flush exposed areas with water for at least 15 minutes. If skin does not feel clean, continue washing until it feels clean. Contact a physician if irritation persists.

INGESTION: Give water to dilute stomach contents. DO NOT induce vomiting; administer additional fluids if vomiting occurs. Contact a physician for further directions. Never give anything by mouth to an unconscious person.

INHALATION: Move victim to fresh air, if safe to do so. If not breathing, administer oxygen. Contact a physician if irritation persists.

5 – FIRE-FIGHTING MEASURES

When responding to a fire involving this product, personal protection equipment must be worn that is appropriate to the chemicals involved in the fire, as well as respiratory protection. If it can be done safely and without risk, stop any release of chemical at the source. Move undamaged containers away from the vicinity of the fire if it can be done safely. Water spray may be used in cooling equipment and containers that have been exposed to heat and/or flame. Avoid spreading burning material with water used for cooling purposes.

FLASHPOINT: >200°F

EXTINGUISHING MEDIA: Foam, dry chemical, water spray

SPECIAL FIRE FIGHTING PROCEDURES: Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Only trained personnel equipped with proper protective gear should be permitted in the area. Stop spill at source. Reclaim material if possible for reuse. Containerize contaminated material for disposal. After all visible traces have been removed flush area thoroughly with water.

WASTE: Dispose of all waste in accordance with local, state and federal regulations. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination.

7 – HANDLING and STORAGE

HANDLING & STORAGE: This product has a very irritating odor. Inhalation of dust/mist will irritate the nose, throat, and lungs. Respiratory protection is recommended when handling this material. Eye contact will cause severe irritation and/or minor burns. Prolonged or repeated skin contact can cause irritation. Wear impervious gloves and safety glasses or goggles when handling. Respiratory protection is recommended during all phases of product handling. Wear additional protective clothing as necessary to minimize contact with product. Store in a cool, dry, well ventilated place away from incompatible materials.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required, use an approved air-purifying respirator. When exposure guidelines may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING: Chemical safety glasses and impervious gloves. Vapor Respirator

9 – PHYSICAL / CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE; Color & Odor: .. Light yellow; Sharp, pungent

SPECIFIC GRAVITY: 1.320

pH, 1%: 4-6

SOLUBILITY IN WATER:..... Complete in water.

VOLATILITY (wt. %, incl. H₂O): . 60

10 – STABILITY and REACTIVITY

STABILITY: Stable

HAZARDOUS DECOMP.: Sodium Oxide & Hydroxide, Sulfur Dioxide from heating.

INCOMPATIBILITY: Mineral acids, oxidizing agents. Contact with acid liberates irritating sulfur dioxide gas. Corrosive to steel, carbon steel, and other common materials of construction at ambient temperatures.

HAZARDOUS REACTIONS: Gradually oxidizes to sodium sulfate on exposure to air. Temperatures at or near boiling point causes evolution of toxic and corrosive sulfur dioxide.

11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL PROPERTIES: The toxicological properties of this chemical mixture as a whole have not been thoroughly investigated.

LISTED CARCINOGEN: This material does not contain any known or suspected carcinogens.

MEDICAL CONDITION AGGRAVATED: SULFITES: This product may cause severe allergic reactions in persons who are sensitive to sulfites.

12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: The environmental properties of this chemical mixture have not been thoroughly investigated.

13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of all waste product and wastes generated from this product in accordance with local, state, and federal regulations. Assume wastes are hazardous unless characterization demonstrates otherwise. Handle empty drums as if they contain chemical residual until they have been thoroughly decontaminated.

14 – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: CONSUMER COMMODITY

15 - REGULATIONS

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

EPA SARA Title III Chemical Listings:

Acute: Yes

Chronic: No

Fire: No

Pressure: No

Reactive: No

SARA SECTION 313: This product DOES NOT contain toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR Part 372.

16 – OTHER INFORMATION

HEALTH: 2, **FLAMMABILITY:** 0, **REACTIVITY:** 0, **PERSONAL PROTECTION:** G

ADDITIONAL INFORMATION: None known