



#### **SECTION IV - FIRST-AID MEASURES**

##### **EMERGENCY FIRST AID PROCEDURES**

Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. If necessary, also rescuers must be attended. Always bring with victim a copy of label and MSDS of product to health professional.

**EYES:** Immediately holding eyelids apart flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

**SKIN:** Wash off product from affected area with plenty of soap and water. Remove contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritations occur.

**INHALATION:** Move patient to fresh air. Supplemental oxygen may be indicated if breathing becomes difficult. Assure mucous does not obstruct airways. Call physician.

**INGESTION:** Immediately contact a physician or poison control center for treatment advice. Do not induce vomiting unless advised by medical personnel. Victim should drink milk, egg whites or large quantities of water. Never give anything by mouth to someone who is unconscious, having convulsions or unable to swallow.

#### **SECTION V - FIRE AND EXPLOSION DATA**

**FLASH POINT:** 12.5°C (54.5°F)

**FLAMMABLE LIMITS: LEL:** 2% (V) **UEL:** 12% (V)

**EXTINGUISHER MEDIA:** Use water spray, "alcohol" foam, CO<sub>2</sub> or dry chemicals.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters must wear self-contained breathing apparatus (SCBA) and full protective equipment. Containers not yet in flames but exposed to intense heat should be cooled with water sprays.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapors are flammable and heavier than air. Drifting vapors may reach distant ignition sources and flash back. Use water spray to dissipate vapors.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Possible toxic fumes under fire conditions.

#### **SECTION VI - ACCIDENTAL RELEASE MEASURES**

##### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:**

In case of a large spill, immediately protect people evacuating all non-trained personnel and any general public. Isolate the area. Prevent exposure to all potential sources of ignition, such as lighted cigarettes, sparks, flames, etc.

Such releases should be responded to by trained personnel only, using pre-planned procedures.

In the event of an incidental release, minimum Personal Protective Equipment must be worn (latex or rubber gloves and boots, goggles, or full faceshield and coveralls). It is necessary to contain spill into the smallest area possible by diking, scooping, enclosing, etc., using non-sparking tools place liquid into an appropriate container and label it. If liquid is absorbed onto dry carrier such as dirt, or other absorbent material, then this material should be put in covered labeled containers and disposed of as a dry waste in accordance with Federal, State and Local hazardous waste disposal regulations.

#### **SECTION VII - HANDLING AND STORAGE**

All personnel who handle this material should be trained to work with it safely. Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mists; use in a well-ventilated location. Wash thoroughly after handling.

Store in a cool, dry place, away from direct sunlight, sources of intense heat or where freezing is possible. Store away from food, feed, clothing materials and living quarters.

Whenever possible, place chemicals on secondary containers or diked area. Inspect all containers before storage, to ensure they are properly labeled and not damaged. Empty containers may contain residual liquid or vapors therefore, should be handled also with care; do not cut, drill, grind, weld or perform similar operations on or near containers. Keep containers tightly closed when not in use. Keep away from children and domestic animals.

#### **SECTION VIII - SPECIAL PROTECTION / CONTROL MEASURES**

**RESPIRATORY PROTECTION:** As required by conditions. Use a NIOSH approved respirator with a vapors cartridge.

**VENTILATION:** General ventilation is usually adequate, using explosion-proof fans. Local exhaust could be used for safer, comfortable working conditions.

**SKIN AND EYE PROTECTION:** Safety glasses should be worn in any type of operation with chemicals. Protective gloves, long sleeved shirt and long pants, as well as protective shoes should be worn as a good safety practice.

**OTHER CONTROL MEASURES:** An eye bath and washing facilities should be available. Wash thoroughly after handling. Do not smoke, eat, drink, chew gum or tobacco when handling chemicals.

**WORK/HYGIENIC PRACTICES:** As a general rule, do not eat, drink, smoke, chew gum or tobacco when handling chemicals. Wash thoroughly after handling this product.

**SECTION IX - PHYSICAL AND CHEMICAL CHARACTERISTICS**

**APPEARANCE AND ODOR:** Clear to light-yellow liquid with a pleasant, alcohol odor.  
**BOILING POINT:** 85°C (185°F) **VAPOR PRESSURE (mm/Hg):** 32 mm @ 20°C  
**MELTING POINT:** -88.5°C (-127.3°F) **VAPOR DENSITY (air = 1):** 2  
**SPECIFIC GRAVITY:** 0.79 to 0.80 **REACTIVITY IN WATER:** N/A  
**SOLUBILITY IN WATER:** >99% **EVAPORATION RATE (n-Butyl Acetate = 1):** 1.4  
**OTHER:**

**SECTION X - PHYSICAL HAZARDS (REACTIVITY DATA)**

**STABILITY:** Stable: Yes Unstable:  
**CONDITIONS TO AVOID:** Keep away from sources of ignition.  
**INCOMPATIBILITY, MATERIALS TO AVOID:** May react with strong oxidizers.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Toxic fumes (CO, CO<sub>2</sub>) under fire conditions.  
**HAZARDOUS POLYMERIZATION:** N/A **MAY OCCUR:** **WILL NOT OCCUR:**

**SECTION XI - TOXICOLOGICAL INFORMATION**

**TOXICITY DATA**

**ORAL:** LD50 (rats): Isopropanol = 5045 mg/kg; GA<sub>3</sub> = 6300 mg/kg  
**DERMAL:** LD<sub>50</sub> (rabbits): Isopropanol = 1280 mg/kg; GA<sub>3</sub> = 2000 mg/kg  
**INHALATION:** LC<sub>50</sub> (rats): Isopropanol = 19000 ppm / 8 hours

**CARCINOGENICITY**

No component listed as a carcinogenic by IARC, NTP, OSHA, CAL/OSHA and ACGIH. Is listed as EPA-D (non-carcinogenic).

**MUTAGENICITY:** the components of this product are not reported to produce mutagenic effects in humans.

**EMBRYOTOXICITY:** this product is not reported to produce embryotoxic effects in humans.

**TERATOGENICITY:** the components of this product are not reported to produce teratogenic effects in humans.

**REPRODUCTIVE TOXICITY:** this product is not reported to produce reproductive toxicity effects in humans.

**SECTION XII - ENVIRONMENTAL EFFECTS DATA**

The available data on this material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at eliminating environmental contamination. Any waste due to spillage or leakage should be contained and disposed of accordingly (see above under Accidental Release Measures). Due to its growth hormonal nature, may cause eutrophication if discharged in bodies of water.

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHODS:** Waste disposal must be done following all Federal, State and Local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority.

**EMPTY CONTAINERS:** Empty containers may have residues (liquid and/or fumes) thus, handle them with care. Do not cut, drill, grind, weld or perform similar operations on or near containers, nor expose them to intense heat, flames, sparks, static electricity or other sources of ignition; they may explode and cause bodily injury or even death. Dispose properly accordingly to regulations on empty containers in your locality or make available to a container reconditioning facility for recycling.

**SECTION XIV - TRANSPORTATION DATA**

**DOT Proper Shipping Name and Hazard Class:**

UN1219, ISOPROPANOL Solution, 3, II

**IATA Proper Shipping Name and Hazard Class:**

UN1219  
ISOPROPANOL Solution  
3, II

**IMO Proper Shipping Name and Hazard Class:**

UN1219, ISOPROPANOL Solution  
CLASS 3, PG II  
Flash Point 12° C, EmS: F-E S-D, Stowage: B

**Placards / Markings:** Flammable Liquid

**Emergency Response Guide Number:** 129      **HazChem Code:** 2S

**SECTION XV - REGULATORY INFORMATION**

U. S. SARA REPORTING REQUIREMENTS: This product might be subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act:

U.S. SARA 302 (40 CFR 355, Appendix A): NO  
U.S. SARA 304 (40 CFR Table 302.4): NO  
U.S. SARA 311/312 (40 CFR 370): Fire Hazard (Threshold for reporting = 10,000 Lb)  
U.S. SARA 313 (40 CFR 372.65): NO  
U.S. SARA THRESHOLD PLANNING QUANTITY: NO  
U.S. CERCLA REPORTABLE QUANTITY (RQ): NO  
U.S. TSCA INVENTORY STATUS: The components of this material are listed on the TSCA Inventory.  
CANADIAN DSL INVENTORY: The components of this material are listed on the DSL Inventory.

**SECTION XVI - OTHER INFORMATION**

Date of MSDS Revision: Feb. 21, 2007. Supersedes all previous versions.

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