

MATERIAL SAFETY DATA SHEET

| 014 | | |
|---|--|--|
| Disinfectant Spray for Health Care Use | | |
| 07-Apr-2008 | | |
| Claire Manufacturing 500 Vista Ave. Addison, IL 60101 United States | | |
| General Assistance 630-543-7600 | | |
| 800-424-9300 | | |
| 703-527-3887 | | |
| 05 | | |
| 18-Mar-2008 | | |
| 2. Hazards Identification | | |
| CONTENTS UNDER PRESSURE. Aerosol. Pressurized container may explode when exposed to heat or flame. | | |
| Harmful in contact with eyes. Can cause adverse reproductive effects. Prolonged exposure may cause chronic effects. | | |
| This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). | | |
| | | |
| Contact may irritate or burn eyes. Eye contact may result in corneal injury. | | |
| Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Harmful if absorbed through the skin. | | |
| Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful. | | |
| Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause delayed lung damage. | | |
| Blood. Central nervous system. Gastrointestinal tract. Liver. Respiratory system. | | |
| Unconsciousness. Conjunctiva. Sterility. Liver injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage. Can cause adverse reproductive effects. Pregnant women or women of child-bearing age should not be exposed to this product. | | |
| Discomfort in the chest. Corneal damage. Narcosis. Cyanosis. Liver enlargement. Jaundice. Conjunctivitis. Defatting of the skin. Irritation. Birth defects. Sterility. | | |
| | | |

| Components | CAS # | Percent |
|--|----------|---------|
| Ethyl Alcohol | 64-17-5 | 40 - 50 |
| n-Butane | 106-97-8 | 15 - 20 |
| Propane | 74-98-6 | 5 - 8 |
| Methanol | 67-56-1 | 3 - 5 |
| Non-hazardous and other components below reportable levels | | 20 - 40 |

4. First Aid Measures

| First aid procedures | |
|----------------------|---|
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately. |
| Skin contact | Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops or persists. |
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |

| Ingestion | advice. I Do not u respiratio | Rinse mouth. Get medical attention immediately. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. | | |
|---|-------------------------------------|--|--|---|
| Notes to physician | • | Symptoms may be delayed. | | |
| General advice | | Call a physician if symptoms develop or persist. | | |
| | | 5. Fire Fighting Me | asures | |
| Flammable properties | | Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back. | | |
| Extinguishing media | | | | |
| Suitable extinguishing media | Foam. D | ory chemical. Carbon dio | xide (CO2). | |
| Unsuitable extinguishing mee | lia Do not u | ise a solid water stream | as it may scatter and sprea | d fire. |
| Protection of firefighters | | | | |
| Protective equipment and precautions for firefighters | including apparatu prevent | In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. | | |
| | 6. <i>F</i> | Accidental Release | Measures | |
| Personal precautions | | Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. | | |
| Methods for containment | Stop lea | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. | | |
| Methods for cleaning up | | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. | | |
| | | 7. Handling and S | torage | |
| Handling | an open appropri get this r | Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. | | |
| Storage | Level 2 / | Aerosol. | | |
| | containe flame. A | ers can increase under th void exposure to long pe | e influence of heat. Keep a riods of sunlight. Store in c | sh. The pressure in sealed way from heat, sparks, and ool place. Keep in an area Use care in handling/storage. |
| | 8. Expos | ure Controls / Pers | onal Protection | |
| Exposure limits ACGIH | | | | |
| | AS # | TWA | STEL | Ceiling |
| | -17-5 | 1000 ppm | Not established | Not established |
| , |)6-97-8 | 1000 ppm | Not established | Not established |
| | -98-6 | 1000 ppm | Not established | Not established |
| | | | | |

| OSHA | | | | |
|---------------|---------|----------|-----------------|-----------------|
| Components | CAS # | TWA | STEL | Ceiling |
| Ethyl Alcohol | 64-17-5 | 1000 ppm | Not established | Not established |
| Propane | 74-98-6 | 1000 ppm | Not established | Not established |
| Methanol | 67-56-1 | 200 ppm | Not established | Not established |

200 ppm

67-56-1

Methanol

Not established

250 ppm

| Engineering controls | Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. | | |
|--------------------------------|---|--|--|
| Personal protective equipment | | | |
| Eye / face protection | Wear chemical goggles. | | |
| Skin protection | Protective gloves. | | |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. | | |
| General hygeine considerations | When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. | | |
| | 9. Physical & Chemical Properties | | |
| Appearance | Compressed liquefied gas. | | |
| Color | colorless | | |
| Odor | fruity alcoholic | | |
| Physical state | Liquid. | | |
| Form | Aerosol. | | |
| Flammability (HOC) | 25 kJ/g | | |
| Flash back | No | | |
| Pressure | 52 - 62 psig @ 70F | | |
| Solubility | Partially | | |
| Flash point | -156 °F (-104.4 °C) estimated | | |
| Boiling point | 134.6 °F (57.2 °C) estimated | | |
| Specific gravity | 0.7515 | | |
| рН | 9.04 - 10.04 | | |
| 10. | Chemical Stability & Reactivity Information | | |
| Chemical stability | Risk of ignition. Stable at normal conditions. | | |
| Conditions to avoid | Heat, flames and sparks. | | |
| Incompatible materials | Isocyanates | | |

| Conditions to avoid | Heat, flames and sparks. Isocyanates. s May include oxides of nitrogen. | | |
|---|---|--|--|
| Incompatible materials | | | |
| Hazardous decomposition products | | | |
| | 11. Toxicological Information | | |
| Acute effects Acute LC50: 83 mg/l/4h estimated, Rat, Inhalation | | | |
| Sensitization | Not expected to be hazardous by OSHA criteria. | | |
| Local effects | Contact may irritate or burn eyes. Liver toxicity. Blood disorder may occur after ingestion. Components of the product may be absorbed into the body through the skin. | | |
| Chronic effects | Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects. | | |
| Subchronic effects | Blood disorder may occur after prolonged inhalation. Blood disorder may occur after prolonged skin contact. | | |
| Neurological effects | Hazardous by OSHA criteria. | | |
| Mutagenicity | Not expected to be hazardous by OSHA criteria. | | |
| Reproductive effects | Hazardous by OSHA criteria. Possible reproductive hazard. Can cause adverse reproductive effects - such as birth defects, miscarriages, and infertility. | | |
| Teratogenicity | Not expected to be hazardous by OSHA criteria. | | |
| Epidemiology | Hazardous by OSHA criteria. | | |
| Further information | Symptoms may be delayed. | | |
| | 12. Ecological Information | | |
| Ecotoxicity | LC50 1806 mg/L estimated, Fish, 96.00 Hours, EC50 17771 mg/L estimated, Daphnia, 48.00 Hours, Components of this product have been identified as having potential environmental concerns. | | |

13. Disposal Considerations

Waste codes

D001: Waste Flammable material with a flash point <140 F

Consult authorities before disposal. Contents under pressure. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

14. Transport Information

| Department of Transportation (DO | T) Requirements | |
|----------------------------------|---------------------|---|
| Basic shipping requirements: | | |
| Proper shipping name | Consumer commodity | |
| Hazard class | ORM-D | |
| Subsidiary hazard class | None | |
| Additional information: | | |
| Packaging exceptions | 156, 306 | |
| Packaging non bulk | 156, 306 | |
| Packaging bulk | None | |
| IMDG | | |
| Basic shipping requirements: | | |
| Proper shipping name | AEROSOLS, flammable | |
| Hazard class | 2.1 | |
| UN number | 1950 | |
| Additional information: | | |
| Packaging exceptions | LTD QTY | |
| Item | 5F | 2 |
| Labels required | None | |
| Transport Category | 2 | • |
| ΙΑΤΑ | | |
| Basic shipping requirements: | | |
| Proper shipping name | Aerosols, flammable | |
| Hazard class | 2.1 | |
| UN number | 1950 | |
| Additional information: | | |
| Packaging exceptions | LTD QTY | |
| Labels required | None | 2 |
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15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting Methanol

67-56-1 1.0 % de minimis concentration

Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200 hazardous Yes chemical

CERCLA (Superfund) reportable quantity

Methanol: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No No

Section 302 extremely hazardous substance Section 311 hazardous chemical Yes

| Inventory status | | | | |
|------------------------------|--|--|------------------------|--|
| Country(s) or region | Inventory n | ame | On inventory (yes/no)* | |
| China | Inventory of Existing Chemical Substances in China (IECSC) | | | |
| Europe | European In | ventory of New and Existing Chemicals (EINECS) | No | |
| Europe | European Li | st of Notified Chemical Substances (ELINCS) | No | |
| Japan | • | Existing and New Chemical Substances (ENCS) | No | |
| Korea | • | emicals List (ECL) | No | |
| United States & Puerto Rico | • | ances Control Act (TSCA) Inventory | Yes | |
| | | uct comply with the inventory requirements administered by | | |
| State regulations | | | ····· | |
| U.S Pennsylvania - RTK (Rigi | nt to Know) I ist | t | | |
| Ethyl Alcohol | 64-17-5 | Present | | |
| Methanol | 67-56-1 | Environmental hazard | | |
| n-Butane | 106-97-8 | Present | | |
| Propane | 74-98-6 | Present | | |
| | | 16. Other Information | | |
| HMIS® ratings Health: 1* | | | | |
| | Flammability: 3 Physical hazard: 0 | | | |
| | | al protection: X | | |
| Prepared by | | • | | |
| Disclaimer | Regulatory Compliance The information provided in this Safety Data Sheet is correct to the best of our | | | |
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| | material used in combination with any other materials or in any process, unless specified in the text. | | | |
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