

Date Issued: 08/02/2007 MSDS No: 1756-8S/EUR Date Revised: 04/22/2008

**Revision No: 2** 

# **LICRON Crystal**

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** LICRON Crystal

**PRODUCT DESCRIPTION:** Static Dissipative Aerosol Coating

**PRODUCT CODE:** 1756-8S/EUR

### **MANUFACTURER**

### 24 HR. EMERGENCY TELEPHONE NUMBERS

Techspray, L.P. 1001 N.W. 1st Street P.O. Box 949 Amarillo TX 79107

**Emergency Contact:** Chemtrec

**Product Stewardship:** 1-800-858-4043 **Service Number:** 1-800-858-4043

CHEMTREC (US Transportation): (800) 424 - 9300 CANUTEC (Canadian Transportation): (613) 996 - 6666 Emergency Phone: (800) 858 - 4043

#### 2. HAZARDS IDENTIFICATION

#### HAZARD DESIGNATION

"Xn" - Harmful

R20/22 - Harmful by inhalation and if swallowed.

"Xi" - Irritant

R36/37/38 - Irritating to eyes, respiratory system and skin.

"F+" - Extremely flammable R12 - Extremely flammable.

### **EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** Contains small amounts of methanol, which is harmful if swallowed.

### **POTENTIAL HEALTH EFFECTS**

**EYES:** Severe irritation; tissue bonding can occur.

**SKIN:** Prolonged or repeated exposure to skin can result in defatting and irritation. Absorption through intact skin is possible. Tissue bonding can occur.

SKIN ABSORPTION: Skin absorption can occur.

**INGESTION:** Harmful if swallowed --- contains small amounts of methanol.

**INHALATION:** Prolonged or excessive inhalation may cause respiratory tract irritation.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

**SKIN:** Prolonged exposure causes redness, pain, drying and cracking of the skin.

**SKIN ABSORPTION:** Glycol ether ingredients may be absorbed through skin.

**INGESTION:** Poison - may be fatal if swallowed.

**INHALATION:** Inhalation can lead to headache, nausea, and coordination problems.

**ACUTE TOXICITY:** Low hazard for usual industrial or commercial handling.



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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name   | Wt.%      | CAS      | EINECS    |
|---|-----------|----------|-----------|
| 2-Propanol  | 30 - 50   | 67-63-0  | 200-661-0 |
| 1-Butanol   | 1 - 5     | 71-36-3  | 200-751-6 |
| Polymer, Proprietary  | 1 - 5     |          |           |
| Nitromethane  | 0.1 - 0.2 | 75-52-5  |           |
| Methanol  | < 0.0001  | 67-56-1  | 200-659-6 |
| Propane   | 9 - 11    | 74-98-6  |           |
| N-Butane  | 9 - 11    | 106-97-8 |           |
| Includes other hazardous components in non-reportable quantities. | < 5       |          |           |

#### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**INGESTION:** If swallowed, gently wipe or rinse the inside of the mouth with water. DO NOT induce vomiting. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Immediately contact a poison control center, emergency room or physician as further treatment may be necessary.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** 22.2°C (72°F) TAG CC **Notes:** Non-propellant material ("cold fill") only.

**GENERAL HAZARD:** Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point.

**EXTINGUISHING MEDIA:** Water, foam, dry chemical, carbon dioxide.

**HAZARDOUS COMBUSTION PRODUCTS:** Combustion generates smoke and fumes of oxides of carbon/nitrogen/silicone.

**EXPLOSION HAZARDS:** Vapors may form explosive mixture with air.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon/nitrogen/silicone.



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### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

### **ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

**GENERAL PROCEDURES:** Absorb the liquid and scrub the area with detergent and water.

**RELEASE NOTES:** Spills and releases may have to be reported to Federal and/or local authorities.

#### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Wash thoroughly after handling. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool dry place.

**STORAGE:** Keep away from sources of ignition.

STORAGE TEMPERATURE: Contents under pressure. Do not expose to heat or store above (120) F (49)

**STORAGE PRESSURE:** Store at local atomspheric pressure.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION



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#### **EXPOSURE GUIDELINES**

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) |      |                                |                               |              |                |                   |             |
|---|------|--------------------------------|-------------------------------|--------------|----------------|-------------------|-------------|
|   |      |                                | EXPOSURE LIMITS               |              |                |                   |             |
|   |      | OSHA PEL ACGIH TLV SupplierOEL |                               |              |                | erOEL             |             |
| Chemical Name                               |      | ppm                            | mg/m³                         | ppm          | mg/m³          | ppm               | mg/m³       |
| 2 Preparel                                  | TWA  | 400<br>ppm                     | 980<br>mg/m3                  | 400<br>ppm   | 983<br>mg/m3   | NL <sup>[1]</sup> | NL [1]      |
| 2-Propanol -                                | STEL | 500<br>ppm                     | 1225<br>mg/m3                 | 500<br>ppm   | 1230<br>mg/m3  | NL                | NL          |
|   | TWA  | S NL<br>ppm <sup>[2]</sup>     | NL<br>mg/m3 <sup>[2]</sup>    | S NL<br>ppm  | NL<br>mg/m3    | NL                | NL          |
| 1-Butanol                                   | STEL | C 50<br>ppm <sup>[3]</sup>     | C 150<br>mg/m3 <sup>[3]</sup> | C 50<br>ppm  | C 152<br>mg/m3 | NL                | NL          |
| Nitromethane                                | TWA  | 100<br>ppm                     | 250<br>mg/m3                  | 20 ppm       | 50<br>mg/m3    |                   |             |
| Mathanal                                    | TWA  | S 200<br>ppm <sup>[4]</sup>    | 260<br>mg/m3 <sup>[4]</sup>   | S 200<br>ppm | 262<br>mg/m3   | NL ppm            | NL<br>mg/m3 |
| Methanol                                    | STEL | 250<br>ppm                     | 310<br>mg/m3                  | 250<br>ppm   | 328<br>mg/m3   | NL ppm            | NL          |

### **OSHA TABLE COMMENTS:**

- **1**. NL = Not Listed
- 2. S = SKIN; NL = Not Listed
- **3**. C = Ceiling
- 4. S = Skin

**ENGINEERING CONTROLS:** Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** Gloves of the following materials may provide protection against permeation: Viton, solvex, Buna, Butyl, and Neoprene.

**RESPIRATORY:** 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.

WORK HYGIENIC PRACTICES: Avoid contact with eyes. Avoid fume inhalation. Limit skin contact.

**OTHER USE PRECAUTIONS:** Emergency shower and eyewash facility should be in close proximity.

### 9. PHYSICAL AND CHEMICAL PROPERTIES



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| Chemical Name | Flash<br>Point | PAINT | Specific<br>Gravity |
|---------------|----------------|-------|---------------------|
| 2-Propanol    | 53.6           | 82.4  | 0.785               |

PHYSICAL STATE: Liquid

**ODOR:** Alcohol odor

COLOR: Dark blue.

**pH:** 8 to 9

**PERCENT VOLATILE: 97.5** 

**BOILING POINT:** 80°C (176°F) **Notes:** Initial boiling point

**FLASHPOINT AND METHOD:** 22.2°C (72°F) TAG CC **Notes:** Non-propellant material ("cold fill") only.

**EVAPORATION RATE:** < 1 (H2O=1)

**DENSITY:** 0.91 - 0.94 at 25°C

**(VOC):** 56.900 % by weight

Notes: Meets VOC requirements for CARB Category: Anti-static product, Aerosol

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Heat, flames, ignition sources, and incompatables.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products include oxides of

carbon, silicone, and nitrogen.

**INCOMPATIBLE MATERIALS:** Oxidizing materials.

### 11. TOXICOLOGICAL INFORMATION

## **ACUTE**

| Chemical Name | ORAL LD <sub>50</sub> (rat) | DERMAL<br>LD <sub>50</sub><br>(rabbit) | INHALATION<br>LC <sub>50</sub> (rat) |
|---------------|-----------------------------|--|--------------------------------------|
| Methanol      | 6.2 to 12.98<br>mg/kg       | 16 g/kg                                | 64000 ppm                            |

**EYES:** Moderately to severely irritating



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**DERMAL LD<sub>50</sub>:** No data available. Contact Env. Dept.

**SKIN ABSORPTION:** Skin absorption may occur with glycol ethers. No further information available. **ORAL LD**<sub>50</sub>: Oral - Rat LD50:5045 mg/kg for 2-propanol. Oral Rat LD50: 5628 mg/kg for methanol.

INHALATION LC<sub>50</sub>: Not Established

**EYE EFFECTS:** Mixture is a moderate eye irritant.

**SKIN EFFECTS:** Based on human exposure reports, prolonged and repeated skin contact with Methanol has produced toxic effects including vision effects and death.

#### CARCINOGENICITY

| Chemical Name | NTP<br>Status | IARC<br>Status | OSHA<br>Status | Other                |
|---------------|---------------|----------------|----------------|----------------------|
| 2-Propanol    | NOT<br>LISTED | NOT<br>LISTED  | NOT<br>LISTED  |                      |
| Nitromethane  | Group 2       | GROUP<br>2B    |                | ACGIH<br>Group<br>A3 |
| Methanol      | NOT<br>LISTED | NOT<br>LISTED  | NOT<br>LISTED  |                      |

IARC: Nitromethane is IARC-listed as Group 2B: Possibly carcinogenic to humans.

**NTP:** Nitromethane is NTP-listed (2 - reasonably anticipated to be a human carcinogen).

**Notes:** Nitromethane is listed by ACGIH as Group A3.

**TERATOGENIC EFFECTS:** Information for Methanol: In an inhalation developmental toxicity study, rats were exposed 6hrs./day to 5000 - 20000 ppm vapors. A significant teratogenic response was seen at 20000 ppm. Fetotoxicity was noted at 10000 ppm, but not at 5000 ppm.

#### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

**ECOTOXICOLOGICAL INFORMATION:** Isopropyl alcohol has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

**GENERAL COMMENTS:** Dispose of in a manner consistent with federal, state, and local regulations.



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### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)** 

PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D

UN/NA NUMBER: NA PACKING GROUP: NA

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 1 lbs.

**OTHER SHIPPING INFORMATION:** RQ of 1 lb refers to glycol ether content.

AIR (ICAO/IATA)

SHIPPING NAME: AEROSOLS IN LIMITED QUANTITIES OF CLASS 2

**UN/NA NUMBER:** 1950

PRIMARY HAZARD CLASS/DIVISION: 2.1

PACKING GROUP: NA

**ERG:** 10L

**NOTE:** Passenger and Cargo Aircraft - limited maximum qty/pkg is 30 kg gross wt. "Flammable Gas" label must be attached. Packing instructions are found in IATA Section 5, special instruction Y203.

Cargo Aircraft Only - limited maximum net qty/pkg is 150 kg. "Flammable Gas" label must by attached. See IATA Section 5.203 for packing instructions. Must be labeled "Cargo Aircraft Only".

VESSEL (IMO/IMDG)

SHIPPING NAME: AEROSOLS IN LIMITED QUANTITIES OF CLASS 2

**UN/NA NUMBER: 1950** 

**PRIMARY HAZARD CLASS/DIVISION: 2.1** 

PACKING GROUP: NA

### 15. REGULATORY INFORMATION

### **UNITED STATES**

### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: ACUTE

FIRE: Yes PRESSURE GENERATING: Yes ACUTE: Yes CHRONIC: Yes

**313 REPORTABLE INGREDIENTS:** 2-propanol, n-butanol, glycol ethers, methanol

#### **EPCRA SECTION 313 SUPPLIER NOTIFICATION**

| Chemical Name | Wt.%    | CAS     |
|---------------|---------|---------|
| 2-Propanol    | 30 - 50 | 67-63-0 |
| 1-Butanol     | 1 - 5   | 71-36-3 |

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)



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**CERCLA REGULATORY:** Glycol ethers, RQ = 1; Methanol, RQ = 5000; n-butanol, RQ = 5000

| C | hemical Name | Wt.%     | CERCLA<br>RQ |
|---|--------------|----------|--------------|
| М | ethanol      | < 0.0001 | 1* lbs.      |

### TSCA (TOXIC SUBSTANCE CONTROL ACT)

| Chemical Name | CAS     |
|---------------|---------|
| 2-Propanol    | 67-63-0 |
| 1-Butanol     | 71-36-3 |
| Methanol      | 67-56-1 |

**TSCA STATUS:** All components of this product are either listed or exempt from listing in the TSCA inventory.

### **CLEAN AIR ACT**

**40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION:** Methanol (CAS# 67-56-1)

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS

**CHEMICALS:** None of the chemicals in this product are considered highly hazardous by OSHA.

**CALIFORNIA PROPOSITION 65**: This product contains a component known to the state of California to cause cancer: Nitromethane (CAS# 75-52-5)

**OSHA HAZARD COMM. RULE:** Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **CANADA**

WHMIS CLASS: Class A, B5, D2B (Aerosol, Flammable Aerosol, Toxic Materials)

#### **EUROPEAN COMMUNITY**

## **EEC LABEL SYMBOL AND CLASSIFICATION**



"Xn" - Harmful

R20/22 - Harmful by inhalation and if swallowed.



"Xi" - Irritant

R36/37/38 - Irritating to eyes, respiratory system and skin.



"F+" - Extremely flammable

R12 - Extremely flammable.



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### 16. OTHER INFORMATION

**APPROVED BY:** Pierce A. Pillon **TITLE:** Chemist

**REVISION SUMMARY:** Revision #: 2. This MSDS replaces the February 27, 2008 MSDS. Any changes in information are as follows: In Section 15: TSCA Status

NFPA CODES

4
2
0

**DATA SOURCES:** Code of Federal Regulations (CFR) The Sigma-Aldrich Library of Regulatory and Safety Data OSHA Hazard Communication Standard (29CFR1910.1200) Various Federal, State and Local Regulations

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