

# SAFETY DATA SHEET



**Date Issued :** 5/22/2007  
**MSDS No :** 1756-Bulk  
**Date Revised :** 7/28/2014  
**Revision No :** 6

## Licron Crystal - Bulk

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Licron Crystal - Bulk  
**PRODUCT DESCRIPTION:** 3951005C  
**PRODUCT CODE:** 1756-G/5G

#### MANUFACTURER

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

**Emergency Contact:** Chemtrec  
**Emergency Phone:** 1-800-858-4043  
**Product Stewardship:** 1-800-858-4043

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC CCN#21858 (US Transportation) :**(800) 424 - 9300  
**CANUTEC (Canadian Transportation) :**(613) 996 - 6666  
**Emergency Phone :**(800) 858 - 4043

### 2. HAZARDS IDENTIFICATION

#### 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.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
2-Propanol	30 - 45	67-63-0
1-Butanol	1 - 10	71-36-3
Dipropylene glycol methyl ether	1 - 10	34590-94-8
Polymer, Proprietary	1 - 10	
Methanol	< 0.01	67-56-1
Includes other hazardous components in non-reportable quantities.	< 5	

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 20 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.

# SAFETY DATA SHEET



**Date Issued :** 5/22/2007  
**MSDS No :** 1756-Bulk  
**Date Revised :** 7/28/2014  
**Revision No :** 6

## Licron Crystal - Bulk

**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.

### 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.

## 5. FIRE FIGHTING MEASURES

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

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

## 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

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

**STORAGE TEMPERATURE:** Store in a cool place below ( 120 ) F ( 49 ) C.

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# SAFETY DATA SHEET



Date Issued : 5/22/2007  
 MSDS No : 1756-Bulk  
 Date Revised : 7/28/2014  
 Revision No : 6

## Licron Crystal - Bulk

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
2-Propanol	TWA	400 ppm	980 mg/m <sup>3</sup>	400 ppm	983 mg/m <sup>3</sup>	NL [1]	NL [1]
	STEL	500 ppm	1225 mg/m <sup>3</sup>	500 ppm	1230 mg/m <sup>3</sup>	NL	NL
1-Butanol	TWA	S NL ppm [2]	NL mg/m <sup>3</sup> [2]	S NL ppm	NL mg/m <sup>3</sup>	NL	NL
	STEL	C 50 ppm [3]	C 150 mg/m <sup>3</sup> [3]	C 50 ppm	C 152 mg/m <sup>3</sup>	NL	NL
Dipropylene glycol methyl ether	TWA	100 ppm		100 ppm		150 ppm	
Methanol	TWA	S 200 ppm [4]	260 mg/m <sup>3</sup> [4]	S 200 ppm	262 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
	STEL	250 ppm	310 mg/m <sup>3</sup>	250 ppm	328 mg/m <sup>3</sup>	NL ppm	NL

**OSHA TABLE COMMENTS:**

- NL = Not Listed
- S = SKIN; NL = Not Listed
- C = Ceiling
- 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

**PHYSICAL STATE:** Liquid

**ODOR:** Alcohol odor

**COLOR:** Dark blue.

# SAFETY DATA SHEET



**Date Issued :** 5/22/2007  
**MSDS No :** 1756-Bulk  
**Date Revised :** 7/28/2014  
**Revision No :** 6

## Licron Crystal - Bulk

**pH:** 7.0 to 8.0

**PERCENT VOLATILE:** 97.6

**FLASHPOINT AND METHOD:** (72°F) TAG CC

**BOILING POINT:** (176°F)

**Notes:** Initial boiling point

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** < 1 (H<sub>2</sub>O=1)

**DENSITY:** 0.92 at 25°C

**VISCOSITY #1:** 11 Centipoise at 25°C Brookfield

**(VOC):** 401.700 g/L (non-exempt VOC)

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.

**POLYMERIZATION:** Will not occur.

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products include oxides of carbon, silicon, and nitrogen.

**INCOMPATIBLE MATERIALS:** Oxidizing materials.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

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

**EYES:** Moderately to severely irritating

**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 LD<sub>50</sub>: 5045 mg/kg for 2-propanol. Oral Rat LD<sub>50</sub>: 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

**IARC:** NOT listed

**NTP:** NOT listed

**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.

# SAFETY DATA SHEET



**Date Issued :** 5/22/2007  
**MSDS No :** 1756-Bulk  
**Date Revised :** 7/28/2014  
**Revision No :** 6

## Licron Crystal - Bulk

### 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.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Coating Solution

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** UN1139

**PACKING GROUP:** II

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 1 lbs.

**OTHER SHIPPING INFORMATION:** Glycol ethers, RQ = 1 Lb.  
Methanol and 1-butanol, RQ = 5000 Lb.

#### ROAD AND RAIL (ADR/RID)

**PROPER SHIPPING NAME:** Coating Solution

**HAZARD CLASS:** 3

**PACKING GROUP:** II

#### AIR (ICAO/IATA)

**SHIPPING NAME:** Coating Solution

**UN/NA NUMBER:** 1139

**PRIMARY HAZARD CLASS/DIVISION:** 3

**PACKING GROUP:** II

**NOTE:** Passenger aircraft - less than 5 L.  
Cargo aircraft - less than 60 L.

#### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Coating Solution

**UN/NA NUMBER:** 1139

**PRIMARY HAZARD CLASS/DIVISION:** 3

**PACKING GROUP:** II

# SAFETY DATA SHEET



**Date Issued :** 5/22/2007  
**MSDS No :** 1756-Bulk  
**Date Revised :** 7/28/2014  
**Revision No :** 6

## Licron Crystal - Bulk

### 15. REGULATORY INFORMATION

#### UNITED STATES

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

**311/312 HAZARD CATEGORIES:** ACUTE

**FIRE:** Yes **ACUTE:** Yes **CHRONIC:** Yes

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

##### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

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

##### 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 methanol (CAS # 67-56-1), a chemical known to the state of California to cause cancer and/or reproductive toxicity.

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

#### CANADA

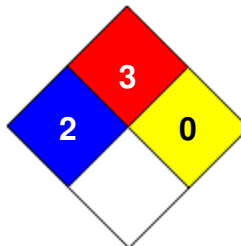
**WHMIS CLASS:** Class B2 - Flammable Liquids. Class D2B - Toxic Materials.

### 16. OTHER INFORMATION

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

**REVISION SUMMARY:** This MSDS replaces the 5/30/2014 MSDS. Revised: **Section 10:** HAZARDOUS DECOMPOSITION PRODUCTS.

#### NFPA CODES



**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

**MANUFACTURER DISCLAIMER:** To the best of our knowledge, the information contained herein is accurate. However, neither Tech Spray, L.P., or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.