

# MATERIAL SAFETY DATA SHEET



Date-Issued: 09/16/2004  
 MSDS Ref. No: 1743-50PK,DSP  
 Date-Revised: 09/16/2004  
 Revision No: New MSDS

## Zero Charge Screen & Keyboard Cleaner

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Zero Charge Screen & Keyboard Cleaner  
**PRODUCT DESCRIPTION:** Screen & Keyboard Cleaner  
**PRODUCT CODE:** 1743-50PK,DSP

### MANUFACTURER

Techspray, L.P.  
 1001 N.W. 1st Street  
 P.O. Box 949  
 Amarillo, TX 79107  
**Contact:** Chemtrec  
**Product Stewardship:** 1-800-858-4043

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Water	80 - 95	7732-18-5	231-791-2
2-Propanol	1 - 10	67-63-0	200-661-0
NJ Trade Secret #00850201001-5391P	<1		
NJ Trade Secret #00850201001-5392P	<1		
Acetic acid, chloro-, sodium salt, reaction products with 4,5-dihydro-2-undecyl-1H-imadazole-1-ethanol and sodium hydroxide	<1	68608-66-2	271-794-6
Fragrance (Non-hazardous)	<1		
Ethylene Oxide (Residual)	<0.001	75-21-8	200-849-9

### EEC LABEL SYMBOL AND CLASSIFICATION



R45 - May cause cancer.

EEC Toxic - "T"



R36/38 - Irritating to eyes and skin.

EEC Irritant - "Xi"

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### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** -Avoid contact with eyes, skin, or clothing. -Avoid breathing vapor or spray mist. -Keep out of reach of children.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Avoid contact with eyes; may cause redness, irritation and conjunctivitis.

**SKIN:** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**SKIN ABSORPTION:** Skin absorption can occur.

**INGESTION:** Ingestion of large amounts may produce abdominal pain, nausea and vomiting. Swallowing small amounts is not likely to produce harmful effects.

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

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Symptoms of overexposure include: stinging, tearing, redness and pain.

**SKIN:** May cause slight irritation.

**INGESTION:** Swallowing of this material may result in nausea, vomiting and weakness followed by central nervous system depression.

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

**CARCINOGENICITY:** NOT listed

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### 4. FIRST AID MEASURES

**EYES:** Flush eye with water for 15 minutes. Get medical attention.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** If swallowed, do not induce vomiting. If conscious and alert, give two glasses of water. Seek medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** None

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

**HAZARDOUS COMBUSTION PRODUCTS:** Smoke, fumes and oxides of carbon.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb the liquid and scrub the area with detergent and water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not flush to sewer.

**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:** Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

**HANDLING:** Empty containers will retain product residue and vapor and should be handled as if they were full.

**STORAGE:** Store in closed, properly labeled containers.

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

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES:**

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

<u>Chemical Name</u>	<u>EXPOSURE LIMITS</u>						
	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>		
	<u>ppm</u>	<u>mg/ m<sup>3</sup></u>	<u>ppm</u>	<u>mg/ m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	
2-Propanol	<b>TWA</b>	400	980	400	983	NL <sup>[1]</sup>	NL
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
	<b>STEL</b>	500	1225	500	1230	NL	NL
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		

NJ Trade Secret #00850201001-5391P

NJ Trade Secret #00850201001-5392P

Acetic acid, chloro-, sodium salt, reaction products with 4,5-dihydro-2-undecyl-1H-imadazole-1-ethanol and sodium hydroxide

<b>TWA</b>	NL	NL	NL	NL	NL	NL
<b>STEL</b>	NL	NL	NL	NL	NL	NL

Fragrance (Non-hazardous)

Ethylene Oxide (Residual)

<b>TWA</b>	1 ppm	NL mg/m <sup>3</sup>	1 ppm	1.8 mg/m <sup>3</sup>	NL	NL
<b>STEL</b>	C 5 ppm <sup>[2]</sup>	NL mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>	NL	NL

#### OSHA TABLE COMMENTS:

1. NL = Not Listed
2. C = Ceiling

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

#### 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:** The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Viton, Solvex, Butyl, Buna, 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:** Wash hands before eating and wash before reuse.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Alcohol odor

**APPEARANCE:** Clear, Colorless liquid

**pH:** 7 to 8

**SOLUBILITY IN WATER:** Miscible

**DENSITY:** 0.98

**(VOC):** 75.6 g/L (non-exempt VOC)

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None Expected.

**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**EYES:** Moderately to severely irritating

**DERMAL LD<sub>50</sub>:** Mildly to moderately irritating.

**ORAL LD<sub>50</sub>:** Oral - Rat LD50:5045 mg/kg for 2-propanol.

**INHALATION LC<sub>50</sub>:** Slight to very low toxicity.

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

### CARCINOGENICITY:

**IARC:** Ethylene oxide (75-21-8)

**NTP:** Ethylene oxide (75-21-8)

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## 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.

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## 13. DISPOSAL CONSIDERATIONS

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

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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**

**AIR (ICAO/IATA)**

**PROPER SHIPPING NAME: CONSUMER COMMODITY ID8000**

**PRIMARY HAZARD CLASS/DIVISION: 9**

**UN/NA NUMBER: ID8000**

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D**

**UN/NA NUMBER: NA**

**PACKING GROUP: NA**

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## 15. REGULATORY INFORMATION

### UNITED STATES

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

##### 311/312 HAZARD CATEGORIES:

**FIRE: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES  
CHRONIC: YES**

**313 REPORTABLE INGREDIENTS: 2-propanol (CAS #67-63-0)**

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

**CERCLA REGULATORY: Residual ethylene oxide, RQ =10**

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

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

#### OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

**29 CFR 1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: Residual ethylene oxide, CAS# 75-21-8.**

### CANADA

**DOMESTIC SUBSTANCE LIST (INVENTORY): All components of this product are listed on the Canadian DSL.**

### EUROPEAN COMMUNITY

#### EEC LABEL SYMBOL AND CLASSIFICATION



R45 - May cause cancer.

EEC Toxic - "T"



R36/38 - Irritating to eyes and skin.

EEC Irritant - "Xi"

**CALIFORNIA PROPOSITION 65:** This product contains a residual component (ethylene oxide, CAS# 75-21-8) known in the state of California to cause cancer.

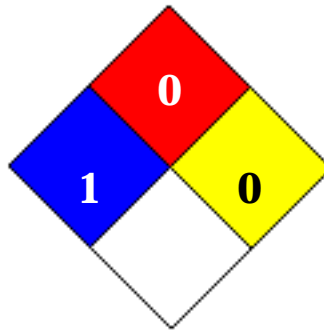
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## 16. OTHER INFORMATION

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

**REVISION SUMMARY** New MSDS

### 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

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