

MATERIAL SAFETY DATA SHEET

Finished Product

Date-Issued: 01/02/2003
MSDS Ref. No: 1743-B
Date-Revised: 07/25/2005
Revision No: 4

Zero Charge Screen & Keyboard Cleaner

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Zero Charge Screen & Keyboard Cleaner
PRODUCT DESCRIPTION: Zero Charge Screen & Keyboard Cleaner
PRODUCT CODE: 1743/CAN/EUR- 2FP, PT, QT

MANUFACTURER

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

24 HR. EMERGENCY TELEPHONE NUMBERS

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Water	30 - 40	7732-18-5	231-791-2
Crodaquat 66	< 1	68071-95-4	
Ethanol	50 - 70	64-17-5	200-578-6
Methanol	8 - 10	67-56-1	200-659-6

EEC LABEL SYMBOL AND CLASSIFICATION



R11 - Highly flammable.

EEC Highly flammable - "F"



R23/25 - Toxic by inhalation and if swallowed.

EEC Toxic - "T"

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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

POTENTIAL HEALTH EFFECTS

EYES: Moderately irritating to the eyes.

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: No negative effects anticipated via absorption.

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

INHALATION: No hazard in normal industrial use.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

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

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

SKIN ABSORPTION: None Expected.

INGESTION: Ingestion may result in diarrhea and/or nausea.

INHALATION: No observable effects of overexposure.

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

CHRONIC: Not Established

CARCINOGENICITY: Not Available

MUTAGENICITY: Not Established

REPRODUCTIVE TOXICITY

TERATOGENIC EFFECTS: Contains Methanol which has been established as a teratogen by inhalation. See Sec.11 for details.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

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.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: (68°F)TAG CC

FLAMMABLE LIMITS: 3.5% to 21.0%

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

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

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: None Expected.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.

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

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.

HANDLING: Use with adequate ventilation.

STORAGE: Store in a cool place in original container and protect from sunlight.

STORAGE PRESSURE: Store at local atmospheric pressure.

STORAGE TEMPERATURE: Store in adequate storage area at ambient temp.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS

Chemical Name

OSHA PEL

ACGIH TLV

Supplier OEL

	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Ethanol	TWA 1000 ppm	1900 mg/m ³	1000 ppm	1880 mg/m ³	NL	NL
	STEL NL ppm	NL mg/ m ³	NL ppm	NL mg/ m ³	NL	NL
Methanol	TWA S 200 ppm ^[1]	260 mg/ m ³	S 200 ppm	262 mg/ m ³	NL ppm	NL mg/ m ³
	STEL 250 ppm	310 mg/ m ³	250 ppm	328 mg/ m ³	NL ppm	NL

OSHA TABLE COMMENTS:

1. S = Skin

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: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

PROTECTIVE CLOTHING: NOT listed

WORK HYGIENIC PRACTICES: Wash hands before eating and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Alcohol odor

COLOR: Yellow to Amber

pH: 7.0

PERCENT VOLATILE: 99

VAPOR PRESSURE: Not Applicable

VAPOR DENSITY: Not Available

BOILING POINT: 60°C (150°F)(760 mmHg)

FREEZING POINT: Not Determined

SOLUBILITY IN WATER: 100

EVAPORATION RATE: Not Established

DENSITY: 0.88 at 25°C

VISCOSITY: Not Applicable

MOLECULAR WEIGHT: Not Applicable

(VOC): 541.2 g/L

(VOC) NOTES: Non-exempt

COMMENTS:

WATER SOLUBILITY: % by weight in water

10. STABILITY AND REACTIVITY

STABLE: NO

HAZARDOUS POLYMERIZATION: NO

STABILITY: Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon (CO and CO₂) may form when heated to decomposition.

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

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Moderately to severely irritating

DERMAL LD₅₀: Mildly to moderately irritating.

SKIN ABSORPTION: Not Established

ORAL LD₅₀: Oral - Rat LD₅₀:5045 mg/kg for 2-propanol. Oral Rat LD₅₀: 5628 mg/kg for methanol.

INHALATION LC₅₀: Inhalaton Rat LC₅₀: 64000 ppm/4H for methanol.

Not Established

EYE EFFECTS: Mixture is a moderate eye irritant.

SKIN EFFECTS: Causes irritation to skin.

SUBCHRONIC: Not Established

CHRONIC: Not Established

CARCINOGENICITY:

IARC: Not Established

MUTAGENICITY: Not Established

REPRODUCTIVE EFFECTS: None known.

NEUROTOXICITY: None Expected.

TERATOGENIC EFFECTS: Not Established

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Available

ECOTOXICOLOGICAL INFORMATION: Not Available

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: Alcohols N.O.S. (Ethanol, Methanol)

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1987

PACKING GROUP: II

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 5000

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Alcohols N.O.S. (Ethanol, Methanol)

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1987

PACKING GROUP: II

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Alcohols, flammable, toxic, n.o.s. (ethanol, methanol)

PRIMARY HAZARD CLASS/DIVISION: 3.2

UN/NA NUMBER: UN1986

PACKING GROUP: NA

IMDG NOTE: Page 3176

EUROPEAN TRANSPORTATION:

ADR/RID HAZARD CLASSIFICATION: 3

ADR/RID ITEM NUMBER: UN1986

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: ACUTE

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

313 REPORTABLE INGREDIENTS: Methanol

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Methanol (#67-56-1)

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Methanol (#67-56-1)

CERCLA RQ: 5000 lbs

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

RCRA STATUS: U154 D001

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

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION



R11 - Highly flammable.

EEC Highly flammable - "F"



R23/25 - Toxic by inhalation and if swallowed.

EEC Toxic - "T"

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to the State of California to cause cancer.

16. OTHER INFORMATION

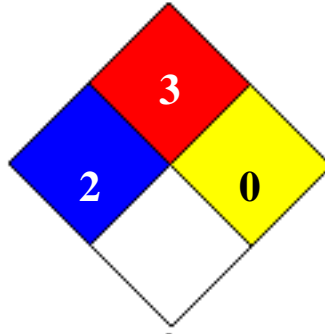
APPROVED BY: Pierce A. Pillon **TITLE:** Chemist

PREPARED BY: Steve Cook

REVISION SUMMARY Revision #: 4 This MSDS replaces the December 08, 2004 MSDS. Any changes in information are as follows: In Section 14 DOT Proper Shipping Name DOT Primary Hazard Class/Division DOT

UN/NA Number DOT Packing Group Reportable Quantity AIR Proper Shipping Name AIR UN/NA Number

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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