# MATERIAL SAFETY DATA SHEET

Titan Industrial Chemicals, LLC PO Box 635 Grover, MO 63040-0635

GENERAL INFORMATION NUMBER: (636) 273-9033

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### I - Product Identification

**Electrosol** 

**PRODUCT CODE: 8200** 

CHEMICAL FORMULATION: Pressurized non-flammable cleaner

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients							
Values reported as TWA unless noted.							
	APPROX	OSHA	ACGIH	EPA 40 CFR:			
<b>SUBSTANCE</b>	<u>%</u>	<u>PEL</u>	$\underline{\mathbf{TLV}}$	<u>302</u>	<u>355</u>	<u>372</u>	CAS#
Trichloroethylene	> 90.0	50 ppm	50 ppm	Y	N	Y	79-01-6
Carbon Dioxide	1.00-5.00	10,000 ppm	5,000 ppm	N	N	N	124-38-9

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit

N/A: Not Applicable N/D: Not Determined N/E: Not Established

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

352. CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

Y: Yes

N: No

372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

# **III - Physical Data**

BOILING POINT (°F): 188.4SPECIFIC GRAVITY (WATER = 1): 1.46VAPOR PRESSURE (mm Hg): 59VOC CONTENT (% by weight): > 90.0VAPOR DENSITY (AIR = 1): 4.5EVAPORATION RATE (WATER = 1): > 1.0

**SOLUBILITY IN WATER:** Insoluble **pH:** N/A

**APPEARANCE AND ODOR:** Clear, water-white liquid; chlorinated solvent odor.

# IV - Fire and Explosion Hazard Data

FLASH POINT (°F): > 200 (TEST METHOD): Closed cup FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: 10.5 LOWER: 8 FLAME EXTENSION: N/D

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

**SPECIAL FIRE FIGHTING PROCEDURES:** Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARD: None** 

## V - Reactivity Data

**STABILITY:** Stable

**INCOMPATIBILITY:** Oxidizers, strong acids, alkalis and aluminum.

**CONDITIONS TO AVOID:** None.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce hydrogen chloride and traces of phosgene.

HAZARDOUS POLYMERIZATION: Will not occur.

**CONDITIONS TO AVOID: None** 

# VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: X EYE CONTACT: X SKIN CONTACT: X INGESTION: X INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:

Trichloroethylene (IARC 2A)

#### EFFECTS OF OVEREXPOSURE

**IF IN EYES:** Moderate to severe irritation.

**IF ON SKIN:** Redness, dryness, irritation, dermatitis with prolonged or repeated exposure.

**IF SWALLOWED:** Gastrointestinal irritation, nausea, cramps, vomiting.

**IF INHALED:** Irritation to upper respiratory tract, CNS depression, cardiac sensitization.

### EMERGENCY AND FIRST AID PROCEDURES

**IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

**IF ON SKIN:** Wash with soap and water. If irritation persists, obtain medical attention.

**IF SWALLOWED:** Contact physician or poison control center immediately. Give affected person 1 to 2 glasses of water. Do not induce vomiting. Never give anything to an unconscious person.

**IF INHALED:** Remove person to fresh air. If irritation persists, obtain medical attention.

# VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area. Soak up spilled material with inert absorbent material and place in a labeled closed container.

WASTE DISPOSAL METHOD: Consult local environmental authorities. Dispose of cans in non-incinerated trash.

# **VIII - Special Protection Information**

**RESPIRATORY PROTECTION:** Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded, wear a NIOSH approved respirator, following the manufacturer's recommendations.

VENTILATION LOCAL: Recommended MECHANICAL: Not required

**PROTECTIVE GLOVES:** Chemical resistant.

**EYE PROTECTION:** Safety glasses and/or face shield.

**OTHER PROTECTIVE EQUIPMENT:** Eye wash station, impervious clothing.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place away from heat or open flame. Do

not store to temperatures above 120F.

OTHER PRECAUTIONS: Keep out of reach of children. Do not puncture or incinerate can.

# IX - Transportation Information (ground transportation only)

**DOT ID NUMBER:** None **DOT PROPER SHIPPING NAME:** Consumer Commodity

**DOT CLASS:** ORM-D **DOT PACKING GROUP**: None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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