

# MATERIAL SAFETY DATA SHEET

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## I-PRODUCT IDENTIFICATION

### CHEM SOLV

PRODUCT CODE:

CHEMICAL FORMULATION:

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0  
PERSONAL PROTECTION-B

HAZARD RATING: 4-Extreme; 3-High; 2-Moderate; 1-Slight; 0-Insignificant

## II-HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUMBER	ACGIH TLV(ppm)	OSHA PEL(ppm)	CARCINOGEN REF. SOURCE**	SARA III LIST
TRICHLOROETHYLENE	79-01-6	50	50	b	YES
PERCHLOROETHYLENE	127-18-4	25	25	a, b	YES

WARNING: This product contains a chemical or chemicals known to the State of California to cause cancer.

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 Y: Yes N: No

302: 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).

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

## III-PHYSICAL DATA

BOILING POINT (°F): N/D MELTING POINT: N/D  
VAPOR PRESURE (PSIG @ 70°F (AERO)): N/A SPECIFIC GRAVITY (WATER=1): 1.60  
VAPOR DENSITY (AIR=1): N/E VOC CONTENT (% by weight):  
SOLUBILITY IN WATER: INSOLUBLE EVAPORATION RATE (Butyl Acetate=1): 2.1  
pH: N/A  
APPEARANCE AND ODOR: CLEAR, COLORLESS LIQUID WITH CHOLRINATED SOLVENT ODOR.

## IV-FIRE AND EXPLOSION HAZARD

FLASH POINT (°F): NONE

FLAMMABLE LIMITS: N/A LEL: N/D UEL: N/D

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS

UNUSUAL FIRE AND EXPLOSION HAZARD: MAY DECOMPOSE DURING CONTACT WITH FLAMES, HEATING ELEMENTS. TOXIC AND CORROSIVE FUMES COULD RESULT.

**V-REACTIVITY DATA**

**STABILITY:** STABLE

**INCOMPATIBILITY:** REACTIVE METALS, ALUMINUM, MAGNESIUM, STRONG OXIDIZING AGENTS.

**CONDITIONS TO AVOID:** OPEN FLAME, WELDING ARCS, HEAT

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** CO2, CO, HCl, SMALL AMOUNTS OF PHOSGENE AND CHLORINE

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

**CONDITIONS TO AVOID:** NONE KNOWN

**VI-HEALTH AND HAZARD DATA**

**ROUTES OF ENTRY:** INHALATION: SKIN: INGESTION:  
**CARCINOGENICITY:** NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

**EFFECTS OF OVEREXPOSURE**

**IF IN EYES:** IRRITATION

**IF ON SKIN:** IRRITATION DUE TO DEFATTING OF SKIN

**IF SWALLOWED:** POSSIBLE CHEMICAL PNEUMONITIS IF ASPIRATED INTO LUNGS. NAUSEA

**IF INHALED:** EXCESSIVE UBGAKATUIB IF VAPORS CAN BE HARMFUL AND MAY CAUSE HEADACHE, DIZZINESS, ASPHYXIA, ANESTHETIC EFFECTS AND POSSIBLE UNCONSCIOUSNESS.

**EMERGENCY AND FIRST AID PROCEDURES**

**IF IN EYES:** FLUSH WITH WATER FOR 15 MINUTES. IF IRRITATED, SEEK MEDICAL ATTENTION.

**IF ON SKIN:** WASH WITH SOAP AND WATER. IF IRRITATED, SEEK MEDICAL ATTENTION.

**IF SWALLOWED:** DO NOT INDUCE VOMITING. DRINK TWO LARGE GLASSES OF WATER. GET IMMEDIATE MEDICAL ATTENTION.

**IF INHALED:** REMOVE TO FRESH AIR. RESUSCITATE IF NECESSARY. GET MEDICAL ATTENTION.

**VII-SPILL AND LEAK PROTECTION**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** ABSORB WITH SUITABLE MEDIUM. INCINERATE OR LANDFILL ACCORDING TO LOCAL, STATE OR FEDERAL REGULATIONS. ALLOW TO EVAPORATE IF SMALL SPILL. DO NOT FLUSH TO SEWER.

**WASTE DISPOSAL METHOD:** DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

**VIII – SPECIAL PROTECTION INFORMATION**

**VENTILATION:** ADEQUATE VENTILATION TO KEEP VAPOR CONCENTRATION BELOW TLV.

**RESPIRATORY PROTECTION:** IF VAPOR CONCENTRATION EXCEEDS TLV, USE REPIRATOR APPROVED BY U.S. BUREAU OF MINES FOR ORGANIC VAPOR.

**PROTECTIVE GLOVE:** NEOPRENE GLOVES RECOMMENDED

**EYE PROTECTION:** SAFETY GLASSES RECOMMENDED

**OTHER PROTECTIVE EQUIPMENT:** NONE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** STORE IN ORIGINAL SHIPPING CONTAINERS IN COOL DRY, WELL-VENTILATED AREA. KEEP CLOSED WHEN NOT IN USE TO PREVENT WATER OR MOIST AIR FROM ENTERING. DO NOT CUT OR WELD ON EMPTY OR FULL DRUMS. DO NOT USE ALUMINUM EQUIPMENT FOR STORAGE OR TRANSFER. SHELF LIFE 1 YEAR.

**OTHER PRECAUTIONS:** KEEP OUT OF REACH OR CHILDREN. AVOID FOOD CONTAMINATION. AVOID INHALATION OF VAPORS.

**WORK/HYGIENIC:**

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