

# MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 1-800-346-0132  
CHEMTREC PHONE: 1-800-255-3924

A154 MIL-SOLV 2000

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**NFPA RATING:**

HEALTH: 2                      FLAMMABILITY: 1                      REACTIVITY: 0                      SPECIAL:

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**HMIS RATING:**

HEALTH: 2                      FLAMMABILITY: 1                      REACTIVITY: 0                      PERSONAL PROTECTION: B

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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PRODUCT NAME:            MIL-SOLV 2000  
PRODUCT CODES:            A154  
PRODUCT USE:                Precision Electronic Cleaner and Degreaser  
MANUFACTURER:            Chemax Corporation  
ADDRESS:                    P O Box 7453  
                                  Beaumont TX 77726-7453  
  
DATE PREPARED:            10/12/09  
PREPARED BY:                R Hinshaw

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**SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS**

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<u>INGREDIENT NAME:</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% WT</u>	<u>SARA 313</u>
N-PROPYL BROMIDE	106-94-5	N/A	10 ppm TWA	85-95	
CARBON DIOXIDE	124-38-9	5000 ppm (exposures < 10,000 ppm to be cited de minimus) 9000 mg/m3 TWA	5000 ppm TWA	< 5.0	
ISOPROPYL ALCOHOL	67-63-0	400 ppm TWA 980 mg/m3 TWA	200 ppm TWA	< 5.0	

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**SECTION 3: HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW:** Keep out of reach of children. Vapors may be harmful. Irritating to eyes and skin.

**ROUTES OF ENTRY:** Eyes. Skin. Ingestion. Inhalation.

**POTENTIAL HEALTH EFFECTS:**

**EYES:** May cause slight irritation.

**SKIN:** May cause slight skin irritation. Prolonged skin contact may defat skin and produce dermatitis.

**INGESTION:** Aspiration may cause chemical pneumonitis if aspirated into lungs.  
May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**INHALATION:** Excessive inhalation may cause headaches, dizziness, tiredness, nausea, vomiting, and diarrhea.  
High vapor concentrations may cause nasal and respiratory irritation.

**CHRONIC HEALTH HAZARDS:** Exposure to component solvent vapor concentrations in excess of stated occupational exposure limit may result in adverse health effects.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Possibly existing eye, skin or upper respiratory conditions.

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## SECTION 4: FIRST AID MEASURES

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**EYES:** Rinse immediately with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If irritation persists, consult a specialist.

**SKIN:** Wash thoroughly with soap and water for 15 minutes. If irritation develops, seek medical attention.

**INGESTION:** Do NOT induce vomiting. Aspiration hazard. Immediate medical attention is required.

**INHALATION:** Remove to fresh air. Resuscitate if necessary. Seek medical attention.

**NOTES TO PHYSICIAN OR FIRST AID PROVIDER:**

**SECTION 4 NOTES:**

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR (% by volume):** UPPER: LOWER:

**FLASH POINT (Method Used: TCC):** N/A

**FLAMMABILITY (as per USA Flame Projection Test):** Not categorized as flammable.

**AUTO IGNITION TEMPERATURE:**

**EXTINGUISHING MEDIA:** Dry chemical (preferred). Carbon dioxide (CO<sub>2</sub>). Foamy Spray.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus, pressure demand or MSHA/NIOSH, approved or equivalent, and full protective gear in all fire situations.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Do not expose to temperatures above 120 F or container may rupture.

**SECTION 5 NOTES:**

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Ensure adequate ventilation. Use personal protective equipment. Absorb the spill with inert material (e.g. – dry sand or earth), then place in a chemical waste container. Prevent product from entering drains. Should not be released into the environment.

**SECTION 6 NOTES:** Dispose of residue in accordance with all federal, state and local regulations.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Store in a cool, dry area. Do not use near heat or flame. Do not store at temperatures above 120 F. Wear personal protective equipment. Do not pierce or burn, even after use. Pressurized container. Do not spray on naked flame or any incandescent material. Protect from container from sunlight.

**OTHER PRECAUTIONS:** Keep out of reach of children. Avoid food contamination. Avoid breathing vapors.

**SECTION 7 NOTES:**

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## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition.

**VENTILATION :** Ensure adequate ventilation.

**RESPIRATORY PROTECTION:** When facing concentrations above the exposure limit, use appropriate certified respirators.

**EYE PROTECTION:** Safety glasses with side-shields.

**SKIN PROTECTION:** Neoprene gloves.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None under normal use.

**WORK HYGIENIC PRACTICES:** Wash hands thoroughly after use. Keep away from food and drink.  
Handle in accordance with good industrial hygiene and safety practices.

**EXPOSURE GUIDELINES:**

**SECTION 8 NOTES:**

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Clear liquid

**ODOR:** Ethereal odor

**PHYSICAL STATE:** Liquid

**pH:** N/A

**BOILING POINT:** N/A

**MELTING POINT:** N/A

**VAPOR PRESSURE (mm Hg):** 80 – 100 F @ 70 F

**VAPOR DENSITY (AIR = 1):** > 1

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.30

**EVAPORATION RATE (Butyl Acetate = 1):** 0.80

**SOLUBILITY IN WATER:** Insoluble

**VOLATILE ORGANIC COMPOUNDS (VOC):** 94.1% per US EPA Definition

**DENSITY (by WT / by VOL):** 10.842 lbs / gal @ 68 F / 20 C

**SECTION 9 NOTES:**

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID (Stability):** Heat, flames and sparks. Extremes of temperature and direct sunlight.  
Do not expose to temperatures above 54 C.

**INCOMPATIBILITY (Material to Avoid):** Strong bases and oxidizing agents. Reactive metals (i.e. – potassium, sodium, etc.)

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon oxides. Hydrogen bromide. Bromine. Hydrogen fluoride.  
Hydrogen chloride (trace amounts).

**HAZARDOUS POLYMERIZATION:** Will not occur.

**SECTION 10 NOTES:**

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**TOXICOLOGICAL INFORMATION:** No specific toxicological data is available for this product.

**SECTION 11 NOTES:** Please refer to Section 3 for information on potential health effects.

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## SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** Should not be released into the environment.

**SECTION 12 NOTES:** Please refer to Section 6 for information regarding spills and Section 15 for regulatory information.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Dispose of residue in accordance with all federal, state and local regulations.  
Do not puncture or incinerate container. Wrap container and place in trash collection.

**RCRA HAZARD CLASS:**

**SECTION 13 NOTES:** Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

**PROPER SHIPPING NAME:** Consumer Commodity, ORM-D  
**HAZARD CLASS:** 2.2  
**UNID NUMBER:** 1950  
**PACKING GROUP:** No packing group  
**TYPE:** Aerosol / Non-Flammable

### WATER TRANSPORTATION

**PROPER SHIPPING NAME:** Consumer Commodity, ORM-D  
**HAZARD CLASS:** 2.2  
**UNID NUMBER:** 1950  
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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS:

TSCA (Toxic Substance Control Act): All chemicals are listed.

CERCLA (Comprehensive Response Compensation and Liability Act): None

SARA TITLE III EPCRA (Superfund Amendments and Reauthorization Act):

Section 311 – 312: Hazardous Chemical Inventory: None

Section 313: Toxic Chemical Release Inventory: None

CALIFORNIA PROPOSITION 65:

Known to the State of California to cause birth defects or other reproductive harm: Female reproductive toxicity

Known to the State of California to cause cancer: None

### CARCINOGEN OR POTENTIAL CARCINOGEN:

OSHA: No                      ACGIH: No                      NTP: No                      IARC: No

### STATE REGULATIONS:

### SECTION 15 NOTES:

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## SECTION 16: OTHER INFORMATION

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PREPARATION INFORMATION: R Hinshaw

DISCLAIMER: Information provided in this MSDS is correct to the best of our knowledge, information and belief at publication date.