

# MATERIAL SAFETY DATA SHEET

THE MILSOLV COMPANIES  
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## SECTION I - PRODUCT

PRODUCT NUMBER: 4401  
PRODUCT NAME: **MILSTRIP 700** AQUEOUS RESIST STRIPPER  
DATE OF PREPARATION: 1/09/95  
PLACES: 10/12/94  
HEALTH: 3  
FLAMMABILITY: 2  
REACTIVITY: 0  
EMERGENCY PHONE NUMBER: CHEMTREC (800) 424-9300

## SECTION II - HAZARDOUS INGREDIENTS

| PRODUCT NAME                   | CAS #     | VAPOR PRESSURE<br>(mm Hg) | TLV  | UNITS |
|--------------------------------|-----------|---------------------------|------|-------|
| CHEMICAL NAME                  |           | PERCENT                   | PEL  | UNITS |
| ETHYLENE DIAMINE *HIGH PURITY* | 107-15-3  | 10.4                      | 10   | PPM   |
| 2-ETHANEDIAMINE                |           | >9%                       | 10   | PPM   |
| 10-METHANOLAMINE               | 141-43-5  | .2                        | 3    | PPM   |
| E1 OL, 2-AMINO-                |           | >9%                       | 3    | PPM   |
| DEIONIZED WATER                | 7732-18-5 |                           | N.E. |       |
| TER                            |           | >9%                       | N.E. |       |

## SECTION III - PHYSICAL DATA

BOILING RANGE: 212 - 339 DEG F  
VAPOR DENSITY: HEAVIER THAN AIR  
EVAPORATION RATE: SLOWER THAN ETHER  
PERCENT VOLATILE BY VOLUME: 065%  
WEIGHT/GALLON: 8.52 LBS/GAL

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

HAZARD CLASSIFICATION: OSHA: COMBUSTIBLE LIQUID-CLASS II  
DOT: 8  
FLASH POINT (TCC): 100 DEG F  
LOWER EXPLOSION LIMIT % BY VOLUME (IN AIR): > 4.2  
EXTINGUISHING MEDIA: Carbon dioxide, Dry chemical, Alcohol-type foam, Universal-type foam  
SPECIAL FIREFIGHTING PROCEDURES: Use self-contained breathing apparatus. Wear full protective clothing. A solid stream of water directed into hot, burning liquid would cause frothing and scattering of burning material. Use eye protection.  
USUAL FIRE AND EXPLOSION HAZARDS: May emit highly toxic fumes when heated.

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## SECTION V - HEALTH HAZARD DATA

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### EFFECTS OF OVEREXPOSURE

INGESTION: Nausea, Vomiting, Diarrhea, Drowsiness, Dizziness, Irritation of mouth and throat, Abdominal discomfort, Coma, Weakness, Collapse, Burns of mouth, throat, and stomach, Faintness.

SKIN ABSORPTION: Absorption of harmful amounts.

INHALATION: Coughing, Irritation, Symptoms of bronchitis, Sneezing, Pulmonary irritation, Prolonged exposure may cause local injury to the respiratory tract.

SKIN CONTACT: Chemical burns following prolonged exposure, Severe irritation, Burning sensation, Reddening.

EYE CONTACT: Severe irritation, Chemical burns, Iritis, Redness, Pain, Permanent eye injury.

CHRONIC EFFECTS OF OVEREXPOSURE: Recurrent overexposure may result in liver and kidney injury.

OTHER HEALTH HAZARDS: Inhalation may aggravate asthma and inflammatory or fibrotic pulmonary disease. Because of its irritating properties, this material may aggravate an existing dermatitis.

PRIMARY ROUTE(S) OF ENTRY: Absorption, Inhalation, Eye contact.

### EMERGENCY AND FIRST AID PROCEDURES

INGESTION: Do not induce vomiting. Call a physician. Never give anything by mouth to an unconscious person. Give plenty of water or, if available, milk to drink. Small amounts which may accidentally enter the mouth should be rinsed out until no taste of this product remains.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing before reuse. Remove and wash contaminated clothing promptly. Call a physician.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

EYES: In case of contact, immediately flush eyes with plenty water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing before reuse.

NOTES TO PHYSICIAN: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition. Careful gastric lavage is required.

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## SECTION VI - REACTIVITY DATA

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STABILITY: Stable.

CONDITIONS TO AVOID: Heat, Ignition sources, Severe oxidizing conditions. See Section IX.

INCOMPATIBILITY: Strong acids, Oxidizing agents, Aldehydes, Epoxides, Ketones.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Amines and other nitrogen compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.



## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contact local authorities. Extinguish and do not turn on any ignition source until area is determined to be free from explosion or fire hazards. Collect large spills for disposal. Flush small spills with water. Soak up with sawdust, sand, oil dry, or other absorbent material.

WASTE DISPOSAL: Incineration in accordance with all Federal, state, and local regulations.

## SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Use an appropriate NIOSH/MSHA approved respirator following manufacturer's recommendations.

VENTILATION: Keep this product in closed equipment. Special, local ventilation is needed at points where vapors or mists are expected to escape to the workplace air.

PROTECTIVE GLOVES: Consult the glove manufacturer for the most appropriate glove material.

EYE PROTECTION: Chemical safety goggles. Face shield.

OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower. Wear protective clothing to prevent repeated or prolonged contact. Chemically resistant shoes or boots. Decontaminate clothing before reuse. Chemical apron.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DANGER! Harmful if swallowed. Harmful, if absorbed through skin. Causes eye and skin burns. Vapor extremely irritating. Combustible. Do not get in eyes, on skin, on clothing. Do not breath vapor or mist. Use with adequate ventilation. Keep away from heat and flame. Wash thoroughly after handling. Keep container closed. Store in tightly closed container. Store in cool, dry, ventilated area. Accidental contact should be washed away immediately. FOR INDUSTRY USE ONLY. Corrosive. Since emptied packages retain product residue, follow label warnings even after package is emptied.

OTHER PRECAUTIONS: Monoethanolamine and iron form a complex molecule, trisethanol-amino-iron. This material can spontaneously decompose at temperatures between 130 and 160 degrees Celsius, and has been suspected of causing a fire in a nearly empty storage tank containing a 'heel' of MEA in contact with carbon steel steam coils. If steam coil heating is used, low pressure steam in stainless steel coils is preferred. Wash contaminated clothing before reuse. Product residue may remain on or in "empty" container. Use product handling precautions for "empty" containers. Clean before reusing or altering container. Maintain workroom air concentrations below the specified TLV's. Contact lenses should not be worn.

313 App. A - Notification

This product contains the following toxic chemicals  
subject to the reporting requirements of section 313 of  
the Emergency Planning and Community Right-To-  
Know Act of 1986 and of 40 CFR 372:

| 3#  | Chemical Name | Percent by<br>Weight |
|-----|---------------|----------------------|
| N/A | N/A           | N/A                  |

This information must be included in all MSDSs that  
are copied and distributed for this material.