# **Chem-Impex International Inc.**

Tel: (630) 766-2112 E-mail: <u>sales@chemimpex.com</u> Shipping and Correspondence: 935 Dillon Drive Wood Dale, IL 60191 USA Fax: (630) 766-2218 Web site: <u>www.chemimpex.com</u> Manufacturing site: 825 Dillon Drive Wood Dale, IL 60191 USA

# SAFETY DATA SHEET

# SECTION 1. CHEMICAL IDENTIFICATION

| CATALOG #:                      | 40415   |
|---------------------------------|---|
| NAME:                           | Trimethylsilyl trifluoroacetate                     |
| SYNONYMS:                       | Trifluoroacetic acid trimethylsilyl ester           |
| 24 HOUR EMERGENCY<br>TELEPHONE: | (800) 535-5053(USA)<br>352-323-3500 (INTERNATIONAL) |
| TO REQUEST AN MSDS:             | (800) 869-9290                                      |
| CUSTOMER<br>SERVICE:            | (630) 766-2112                                      |

# SECTION 2. HAZARDS IDENTIFICATION

## CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

**GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)** FLAMMABLE LIQUIDS (CATEGORY 2), H225 SKIN CORROSION (CATEGORY 1B), H314 SERIOUS EYE DAMAGE (CATEGORY 1), H318

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

# GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM

SIGNAL WORD



| HAZARD STATEMENT(  | S)  |
|--------------------|---|
| H225               | HIGHLY FLAMMABLE LIQUID AND VAPOUR.                     |
| H314               | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.                |
| PRECAUTIONARY STAT | FEMENT(S)   |
| P210               | KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES.    |
|                    | NO SMOKING.   |
| P233               | KEEP CONTAINER TIGHTLY CLOSED.                          |
| P240               | GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT.          |
| P241               | USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/            |
|                    | LIGHTING/ EQUIPMENT.                                    |
| P242               | USE ONLY NON-SPARKING TOOLS.                            |
| P243               | TAKE PRECAUTIONARY MEASURES AGAINST STATIC              |
|                    | DISCHARGE.  |
| P264               | WASH SKIN THOROUGHLY AFTER HANDLING.                    |
| P280               | WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE        |
|                    | PROTECTION/ FACE PROTECTION.                            |
| P301 + P330 + P331 | IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.      |
| P303 + P361 + P353 | IF ON SKIN (OR HAIR): REMOVE/ TAKE OFF IMMEDIATELY ALL  |
|                    | CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/           |
|                    | SHOWER.   |
| P304 + P340        | IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST |
|                    | IN A POSITION COMFORTABLE FOR BREATHING.                |
| P305 + P351 + P338 | IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL     |
|                    | MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY     |
|                    | TO DO. CONTINUE RINSING.                                |
| P310               | IMMEDIATELY CALL A POISON CENTER/ DOCTOR.               |
| P321               | SPECIFIC TREATMENT (SEE SUPPLEMENTAL FIRST AID          |
|                    | INSTRUCTIONS ON THIS LABEL).                            |
| P363               | WASH CONTAMINATED CLOTHING BEFORE REUSE.                |
| P370 + P378        | IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR          |
|                    | ALCOHOL-RESISTANT FOAM FOR EXTINCTION.                  |
| P403 + P235        | STORE IN A WELL-VENTILATED PLACE. KEEP COOL.            |
| P405               | STORE LOCKED UP.  |
| P501               | DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE     |
|                    | DISPOSAL PLANT.   |
| HAZARDS NOT        | NONE  |

OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| MF:     | C <sub>5</sub> H <sub>9</sub> F <sub>3</sub> O <sub>2</sub> Si |
|---------|--|
| MW:     | 186.21   |
| CAS-NO. | 400-53-3   |
| PURITY: | ≥95% (GC)  |

| COMPONENT                   | CLASSIFICATION   | CONCENTRATION |
|-----------------------------|--|---------------|
| Trimethylsilyl trifluoroace | tate   |               |
|                             | FLAM. LIQ. 2; SKIN CORR. 1B;<br>EYE DAM. 1; H225, H314, H318 | <= 100 %      |

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

# SECTION 4. FIRST-AID MEASURES

## **DESCRIPTION OF FIRST AID MEASURES**

| GENERAL ADVICE   | CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO<br>THE DOCTOR IN ATTENDANCE.MOVE OUT OF DANGEROUS<br>AREA.                                  |
|--|---|
| IF INHALED   | IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT<br>BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A<br>PHYSICIAN.                           |
| IN CASE OF SKIN<br>CONTACT   | TAKE OFF CONTAMINATED CLOTHING AND SHOES<br>IMMEDIATELY. WASH OFF WITH SOAP AND PLENTY OF<br>WATER. CONSULT A PHYSICIAN.                        |
| IN CASE OF EYE<br>CONTACT  | RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST<br>15 MINUTES AND CONSULT A PHYSICIAN.CONTINUE<br>RINSING EYES DURING TRANSPORT TO HOSPITAL. |
| IF SWALLOWED   | DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY<br>MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH<br>WATER. CONSULT A PHYSICIAN.               |
| MOST IMPORTANT<br>SYMPTOMS AND<br>EFFECTS, BOTH ACUTE<br>AND DELAYED | THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS<br>ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2)<br>AND/OR IN SECTION 11.                      |

# SECTION 5. FIRE AND EXPLOSION DATA

## EXTINGUISHING MEDIA

| SUITABLE<br>EXTINGUISHING MEDIA                             | USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY<br>CHEMICAL OR CARBON DIOXIDE. |
|---|---|
| SPECIAL HAZARDS<br>ARISING FROM THE<br>SUBSTANCE OR MIXTURE | CARBON OXIDES, HYDROGEN FLUORIDE, SILICON<br>OXIDES                         |
| ADVICE FOR<br>FIREFIGHTERS                                  | WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY.      |
| FURTHER INFORMATION   | USE WATER SPRAY TO COOL UNOPENED CONTAINERS.                                |

# SECTION 6. ACCIDENTAL RELEASE MEASURES

| PERSONAL<br>PRECAUTIONS,<br>PROTECTIVE EQUIPMENT<br>AND EMERGENCY<br>PROCEDURES | USE PERSONAL PROTECTIVE EQUIPMENT. AVOID<br>BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE<br>VENTILATION. REMOVE ALL SOURCES OF IGNITION.<br>EVACUATE PERSONNEL TO SAFE AREAS. BEWARE OF<br>VAPOURS ACCUMULATING TO FORM EXPLOSIVE<br>CONCENTRATIONS. VAPOURS CAN ACCUMULATE IN LOW<br>AREAS.<br>FOR PERSONAL PROTECTION SEE SECTION 8. |
|---|---|
| ENVIRONMENTAL<br>PRECAUTIONS  | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.  |
| METHODS AND<br>MATERIALS FOR<br>CONTAINMENT AND<br>CLEANING UP                  | CONTAIN SPILLAGE, AND THEN COLLECT WITH AN<br>ELECTRICALLY PROTECTED VACUUM CLEANER OR BY<br>WETBRUSHING AND PLACE IN CONTAINER FOR DISPOSAL<br>ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13).  |
| REFERENCE TO OTHER<br>SECTIONS  | FOR DISPOSAL SEE SECTION 13.  |

# SECTION 7. HANDLING AND STORAGE

| PRECAUTIONS FOR SAFE<br>HANDLING                                   | AVOID INHALATION OF VAPOUR OR MIST.<br>USE EXPLOSION-PROOF EQUIPMENT.KEEP AWAY FROM<br>SOURCES OF IGNITION - NO SMOKING.TAKE MEASURES TO<br>PREVENT THE BUILD UP OF ELECTROSTATIC CHARGE.<br>FOR PRECAUTIONS SEE SECTION 2.2. |
|--|---|
| CONDITIONS FOR SAFE<br>STORAGE, INCLUDING<br>ANY INCOMPATIBILITIES | KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-<br>VENTILATED PLACE. CONTAINERS WHICH ARE OPENED<br>MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO<br>PREVENT LEAKAGE.   |
|  | Store at RT   |
| SPECIFIC END USE(S)  | APART FROM THE USES MENTIONED IN SECTION 1.2 NO<br>OTHER SPECIFIC USES ARE STIPULATED   |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **CONTROL PARAMETERS**

### **COMPONENTS WITH WORKPLACE CONTROL PARAMETERS** CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

### **EXPOSURE CONTROLS**

| APPROPRIATE | HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL      |
|-------------|--|
| ENGINEERING | HYGIENE AND SAFETY PRACTICE. WASH HANDS BEFORE |
| CONTROLS    | BREAKS AND AT THE END OF WORKDAY.              |

#### PERSONAL PROTECTIVE EQUIPMENT

| <b>EYE/FACE PROTECTION</b> | TIGHTLY FITTING SAFETY GOGGLES. FACESHIELD (8-INCH |
|----------------------------|--|
|                            | MINIMUM). USE EQUIPMENT FOR EYE PROTECTION TESTED  |
|                            | AND APPROVED UNDER APPROPRIATE GOVERNMENT          |
|                            | STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).        |

SKIN PROTECTIONHANDLE WITH GLOVES. GLOVES MUST BE INSPECTED<br/>PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE<br/>(WITHOUT TOUCHING GLOVE'S OUTER SURFACE) TO AVOID<br/>SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF<br/>CONTAMINATED GLOVES AFTER USE IN ACCORDANCE<br/>WITH APPLICABLE LAWS AND GOOD LABORATORY<br/>PRACTICES. WASH AND DRY HANDS.

| BODY PROTECTION                         | COMPLETE SUIT PROTECTING AGAINST CHEMICALS,<br>FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING.<br>THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED<br>ACCORDING TO THE CONCENTRATION AND AMOUNT OF<br>THE DANGEROUS SUBSTANCE AT THE SPECIFIC<br>WORKPLACE.   |
|---|--|
| RESPIRATORY                             | WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING  |
| PROTECTION                              | RESPIRATORS ARE APPROPRIATE USE A FULLFACE<br>RESPIRATOR WITH MULTI-PURPOSE COMBINATION (US) OR<br>TYPE ABEK (EN 14387) RESPIRATOR CARTRIDGES AS A<br>BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR<br>IS THE SOLE MEANS OF PROTECTION, USE A FULL-FACE<br>SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND<br>COMPONENTS TESTED AND APPROVED UNDER<br>APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH<br>(US) OR CEN (EU). |
| CONTROL OF<br>ENVIRONMENTAL<br>EXPOSURE | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.   |

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

## INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| APPEARANCE             | Colorless to yellow clear liquid |
|------------------------|----------------------------------|
| ODOUR                  | NO DATA AVAILABLE                |
| ODOUR THRESHOLD        | NO DATA AVAILABLE                |
| РН                     | NO DATA AVAILABLE                |
| MELTING                |                                  |
| POINT/FREEZING POINT   |                                  |
| INITIAL BOILING POINT  | 90 °C (Lit.)                     |
| AND BOILING RANGE      |                                  |
| FLASH POINT            | 13 °C                            |
| EVAPOURATION RATE      | NO DATA AVAILABLE                |
| FLAMMABILITY (SOLID,   | NO DATA AVAILABLE                |
| GAS)                   |                                  |
| UPPER/LOWER            | NO DATA AVAILABLE                |
| FLAMMABILITY OR        |                                  |
| EXPLOSIVE LIMITS       |                                  |
| VAPOUR PRESSURE        | NO DATA AVAILABLE                |
| VAPOUR DENSITY         | 6.43 - (AIR = 1.0)               |
| RELATIVE DENSITY       | 1.07 g/mL                        |
| WATER SOLUBILITY       | NO DATA AVAILABLE                |
| PARTITION COEFFICIENT: | NO DATA AVAILABLE                |
| N- OCTANOL/WATER       |                                  |
| AUTO-IGNITION          | NO DATA AVAILABLE                |
| TEMPERATURE            |                                  |
| DECOMPOSITION          | NO DATA AVAILABLE                |
| TEMPERATURE            |                                  |
|                        |                                  |

| VISCOSITY            | NO DATA AVAILABLE |
|----------------------|-------------------|
| EXPLOSIVE PROPERTIES | NO DATA AVAILABLE |
| OXIDIZING PROPERTIES | NO DATA AVAILABLE |

**OTHER SAFETY INFORMATION** RELATIVE VAPOR 6.43 - (AIR = 1.0) DENSITY

# SECTION 10. STABILITY AND REACTIVITY

| REACTIVITY                             | NO DATA AVAILABLE   |
|--|---|
| CHEMICAL STABILITY                     | STABLE UNDER RECOMMENDED STORAGE CONDITIONS.  |
| POSSIBILITY OF<br>HAZARDOUS REACTIONS  | VAPOURS MAY FORM EXPLOSIVE MIXTURE WITH AIR.  |
| CONDITIONS TO AVOID                    | HEAT, FLAMES AND SPARKS. EXTREMES OF TEMPERATURE AND DIRECT SUNLIGHT.   |
| INCOMPATIBLE<br>MATERIALS              | OXIDIZING AGENTS, ACIDS, BASES, REDUCING AGENTS   |
| HAZARDOUS<br>DECOMPOSITION<br>PRODUCTS | HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER<br>FIRE CONDITIONS CARBON OXIDES, HYDROGEN<br>FLUORIDE, SILICON OXIDES<br>OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE<br>IN THE EVENT OF FIRE: SEE SECTION 5 |

## SECTION 11. TOXICOLOGICAL INFORMATION

# INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY NO DATA AVAILABLE

INHALATION: NO DATA AVAILABLE

DERMAL: NO DATA AVAILABLE

NO DATA AVAILABLE

SKIN NO DATA AVAILABLE

CORROSION/IRRITATION

SERIOUS EYE NO DATA AVAILABLE DAMAGE/EYE IRRITATION

| RESPIRATORY OR SKIN<br>SENSITISATION                     | NO DATA AVAILABLE   |
|--|---|
| GERM CELL<br>MUTAGENICITY                                | NO DATA AVAILABLE   |
| <b>CARCINOGENICITY</b><br>IARC:                          | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS<br>GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS<br>PROBABLE, POSSIBLE OR CONFIRMED HUMAN<br>CARCINOGEN BY IARC.                                |
| ACGIH:   | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS<br>GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A<br>CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.  |
| NTP:   | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS<br>GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A<br>KNOWN OR ANTICIPATED CARCINOGEN BY NTP.   |
| OSHA:  | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS<br>GREATER THAN OR EQUAL TO 0.1% IS ON OSHA S LIST OF<br>REGULATED CARCINOGENS.  |
| REPRODUCTIVE TOXICITY                                    | NO DATA AVAILABLE   |
| SPECIFIC TARGET ORGAN<br>TOXICITY - SINGLE<br>EXPOSURE   | NO DATA AVAILABLE   |
| SPECIFIC TARGET ORGAN<br>TOXICITY - REPEATED<br>EXPOSURE | NO DATA AVAILABLE   |
| ASPIRATION HAZARD  | NO DATA AVAILABLE   |
| ADDITIONAL<br>INFORMATION                                | RTECS: NOT AVAILABLE<br>MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF<br>THE MUCOUS MEMBRANES AND UPPER RESPIRATORY<br>TRACT, EYES, AND SKIN., COUGH, SHORTNESS OF<br>BREATH, HEADACHE, NAUSEA |

# SECTION 12. ECOLOGICAL INFORMATION

# TOXICITY

# NO DATA AVAILABLE

PERSISTENCE AND DEGRADABILITY NO DATA AVAILABLE

| BIOACCUMULATIVE<br>POTENTIAL          | NO DATA AVAILABLE   |
|---------------------------------------|---|
| MOBILITY IN SOIL                      | NO DATA AVAILABLE   |
| RESULTS OF PBT AND VPVB<br>ASSESSMENT | PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL<br>SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED |
| OTHER ADVERSE EFFECTS                 | NO DATA AVAILABLE   |

# SECTION 13. DISPOSAL CONSIDERATIONS

## WASTE TREATMENT METHODS

**PRODUCT**BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN<br/>AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE<br/>IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.<br/>OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO<br/>A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED<br/>PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE<br/>OF THIS MATERIAL.

CONTAMINATEDDISPOSE OF AS UNUSED PRODUCT.PACKAGINGDispose of a subscription

## SECTION 14. TRANSPORT INFORMATION

| DOT (US)              |  |
|-----------------------|--|
| PROPER SHIPPING NAME: | FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (Trimethylsilyl trifluoroacetate) |
| UN NUMBER:            | 2924   |
| CLASS:                | 3 (8)  |
| PACKING GROUP:        | II   |
| REPORTABLE QUANTITY   |  |
| (RQ):                 |  |
| POISON INHALATION     | NO   |
| HAZARD:               |  |
| IMDG                  |  |
| PROPER SHIPPING NAME: | ELAMMADIELIQUIDE CODDOSIVE NOS (Trimothyloily)                         |
| PROPER SHIPPING NAME. | FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (Trimethylsilyl trifluoroacetate) |
| UN NUMBER:            | 2924   |
| CLASS:                | 3 (8)  |
| PACKING GROUP:        | II   |
| EMS-NO:               | F-E, S-C   |

| IATA                  |  |
|-----------------------|--|
| PROPER SHIPPING NAME: | FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (Trimethylsilyl |
|                       | trifluoroacetate)                                    |
| UN NUMBER:            | 2924   |
| CLASS:                | 3 (8)  |
| PACKING GROUP:        | II   |

## SECTION 15. REGULATORY INFORMATION

| SARA 302 COMPONENTS | NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE<br>REPORTING REQUIREMENTS OF SARA TITLE III, SECTION<br>302.  |
|---------------------|--|
| SARA 313 COMPONENTS | THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL<br>COMPONENTS WITH KNOWN CAS NUMBERS THAT<br>EXCEED THE THRESHOLD (DE MINIMIS) REPORTING<br>LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313. |

## SARA 311/312 HAZARDS FIRE HAZARD, ACUTE HEALTH HAZARD

#### MASSACHUSETTS RIGHT TO KNOW COMPONENTS

NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

# PENNSYLVANIA RIGHT TO KNOW COMPONENTS

|                                 | CAS-NO.  |
|---------------------------------|----------|
| Trimethylsilyl trifluoroacetate | 400-53-3 |

## NEW JERSEY RIGHT TO KNOW COMPONENTS

CAS-NO. Trimethylsilyl trifluoroacetate 400-53-3

**REVISION DATE** 

**REVISION DATE** 

# CALIFORNIA PROP. 65 COMPONENTS

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH, OR ANY OTHER REPRODUCTIVE DEFECTS.

# SECTION 16. OTHER INFORMATION

| FULL TEXT O | <b>PF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.</b> |
|-------------|--|
| H225        | HIGHLY FLAMMABLE LIQUID AND VAPOUR.                        |
| H314        | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.                   |

| MSDS LEGEND |                            |
|-------------|----------------------------|
| MW:         | MOLECULAR WEIGHT           |
| MF:         | MOLECULAR FORMULA          |
| VOC:        | VOLATILE ORGANIC COMPOUNDS |

| ACGIH:  | AMERICAN CONFERENCE OF GOVERNMENENTAL INDUSTRIAL |
|---------|--|
|         | HYGINISTS  |
| CAS:    | CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER        |
| OSHA:   | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION    |
| PEL:    | PERMISSIBLE EXPOSURE LIMIT (OSHA)                |
| TLV:    | THRESHOLD LIMIT VALUE (ACGIH)                    |
| DODTANT |  |

#### IMPORTANT:

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