# **Chem-Impex International Inc.**

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# SAFETY DATA SHEET

#### SECTION 1. CHEMICAL IDENTIFICATION

| CATALOG #:                      | 30206   |
|---------------------------------|---|
| NAME:                           | Potassium perchlorate                               |
| SYNONYMS:                       | Potassium hyperchlorate                             |
| 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) OXIDIZING SOLIDS (CATEGORY 1), H271 ACUTE TOXICITY, ORAL (CATEGORY 4), H302

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 | 5)   |
|--------------------|--|
| H271               | MAY CAUSE FIRE OR EXPLOSION; STRONG OXIDISER.      |
| H302               | HARMFUL IF SWALLOWED.                              |
| PRECAUTIONARY STAT |  |
| P210               | KEEP AWAY FROM HEAT.                               |
| P220               | KEEP/STORE AWAY FROM CLOTHING/ COMBUSTIBLE         |
| 1220               | MATERIALS.   |
| P221               | TAKE ANY PRECAUTION TO AVOID MIXING WITH           |
| 1 22 1             | COMBUSTIBLES.                                      |
| P264               | WASH SKIN THOROUGHLY AFTER HANDLING.               |
| P270               | DO NOT EAT, DRINK OR SMOKE WHEN USING THIS         |
| 1270               | PRODUCT.   |
| P280               | WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE   |
| 1200               | PROTECTION/ FACE PROTECTION.                       |
| P283               | WEAR FIRE/ FLAME RESISTANT/ RETARDANT CLOTHING.    |
| P301 + P312        | IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/      |
| 1501 1512          | PHYSICIAN IF YOU FEEL UNWELL.                      |
| P306 + P360        | IF ON CLOTHING: RINSE IMMEDIATELY CONTAMINATED     |
| 1200 1200          | CLOTHING AND SKIN WITH PLENTY OF WATER BEFORE      |
|                    | REMOVING CLOTHES.                                  |
| P330               | RINSE MOUTH.                                       |
| P370 + P378        | IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR     |
| 1570 1570          | ALCOHOL-RESISTANT FOAM FOR EXTINCTION.             |
| P371 + P380 + P375 | IN CASE OF MAJOR FIRE AND LARGE QUANTITIES:        |
| 10/1 1000 10/0     | EVACUATE AREA. FIGHT FIRE REMOTELY DUE TO THE RISK |
|                    | OF EXPLOSION.                                      |
| P501               | DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED      |
| 1001               | WASTE DISPOSAL PLANT.                              |
|                    |  |
| HAZARDS NOT        | NONE   |
| OTHERWISE          |  |
| CLASSIEIED (UNOC)  |  |

OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| MF:     | KClO <sub>4</sub>                  |
|---------|------------------------------------|
| MW:     | 138.55                             |
| CAS-NO. | 7778-74-7                          |
| PURITY: | 99.0 - 100.5% (Assay by titration) |

#### HAZARDOUS COMPONENTS

| COMPONENT   | CLASSIFICATION            | CONCENTRATION |
|---|---------------------------|---------------|
| POTASSIUM PERCHI  | ORATE                     |               |
|   | OX. SOL. 1; ACUTE TOX. 4; | -             |
|   | H271, H302                |               |
| EOD THE FULL TEXT OF THE H STATEMENTS MENTIONED IN THIS SECTION SEE |                           |               |

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<br>SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT<br>OF DANGEROUS AREA.        |
|--|---|
| IF INHALED   | IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF<br>NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.<br>CONSULT A PHYSICIAN. |
| IN CASE OF SKIN<br>CONTACT   | WASH OFF WITH SOAP AND PLENTY OF WATER.<br>CONSULT A PHYSICIAN.   |
| IN CASE OF EYE<br>CONTACT  | FLUSH EYES WITH WATER AS A PRECAUTION.  |
| IF SWALLOWED   | NEVER GIVE ANYTHING BY MOUTH TO AN<br>UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER.<br>CONSULT A PHYSICIAN.             |
| MOST IMPORTANT   | THE MOST IMPORTANT KNOWN SYMPTOMS AND   |
| SYMPTOMS AND<br>EFFECTS, BOTH ACUTE<br>AND DELAYED                                     | EFFECTS ARE DESCRIBED IN THE LABELLING (SEE<br>SECTION 2.2) AND/OR IN SECTION 11                                      |
| INDICATION OF ANY<br>IMMEDIATE MEDICAL<br>ATTENTION AND<br>SPECIAL TREATMENT<br>NEEDED | NO DATA AVAILABLE   |

# SECTION 5. FIRE AND EXPLOSION DATA

**EXTINGUISHING MEDIA** 

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

# SECTION 6. ACCIDENTAL RELEASE MEASURES

| PERSONAL   | USE PERSONAL PROTECTIVE EQUIPMENT. AVOID  |
|--|---|
| PRECAUTIONS,   | DUST FORMATION. AVOID BREATHING VAPOURS, MIST   |
| PROTECTIVE   | OR GAS. ENSURE ADEQUATE VENTILATION.  |
| EQUIPMENT AND  | EVACUATE PERSONNEL TO SAFE AREAS. AVOID   |
| EMERGENCY  | BREATHING DUST.   |
| PROCEDURES   | FOR PERSONAL PROTECTION SEE SECTION 8.  |
| ENVIRONMENTAL  | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE   |
| PRECAUTIONS  | TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.  |
| METHODS AND<br>MATERIALS FOR<br>CONTAINMENT AND<br>CLEANING UP | SWEEP UP AND SHOVEL. CONTAIN SPILLAGE, AND<br>THEN COLLECT WITH AN ELECTRICALLY PROTECTED<br>VACUUM CLEANER OR BY WET- BRUSHING AND<br>PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO<br>LOCAL REGULATIONS (SEE SECTION 13). KEEP IN<br>SUITABLE, CLOSED CONTAINERS FOR DISPOSAL. |
| REFERENCE TO OTHER<br>SECTIONS                                 | FOR DISPOSAL SEE SECTION 13.  |

# SECTION 7. HANDLING AND STORAGE

| PRECAUTIONS FOR SAFE<br>HANDLING | AVOID CONTACT WITH SKIN AND EYES. AVOID<br>FORMATION OF DUST AND AEROSOLS.<br>PROVIDE APPROPRIATE EXHAUST VENTILATION AT<br>PLACES WHERE DUST IS FORMED.KEEP AWAY FROM<br>SOURCES OF IGNITION - NO SMOKING.<br>FOR PRECAUTIONS SEE SECTION 2.2. |
|----------------------------------|---|
| CONDITIONS FOR SAFE              | KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND  |
| STORAGE, INCLUDING               | WELL-VENTILATED PLACE.  |
| ANY INCOMPATIBILITIES            | HYGROSCOPIC   |

#### APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **CONTROL PARAMETERS**

COMPONENTS WITHCONTAINS NO SUBSTANCES WITH OCCUPATIONALWORKPLACE CONTROLEXPOSURE LIMIT VALUES.PARAMETERSEXPOSURE LIMIT VALUES.

#### **EXPOSURE CONTROLS**

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

#### PERSONAL PROTECTIVE EQUIPMENT

**EYE/FACE PROTECTION** SAFETY GLASSES WITH SIDE-SHIELDS CONFORMING TO EN166 USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).

| SKIN PROTECTION                         | HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED<br>PRIOR TO USE. USE PROPER GLOVE REMOVAL<br>TECHNIQUE (WITHOUT TOUCHING GLOVE"S OUTER<br>SURFACE) TO AVOID SKIN CONTACT WITH THIS<br>PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER<br>USE IN ACCORDANCE WITH APPLICABLE LAWS AND<br>GOOD LABORATORY PRACTICES. WASH AND DRY<br>HANDS.  |
|---|--|
|   | FULL CONTACT<br>MATERIAL: NITRILE RUBBER<br>MINIMUM LAYER THICKNESS: 0.11 MM<br>BREAK THROUGH TIME: 480 MIN<br>MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)   |
|   | SPLASH CONTACT<br>MATERIAL: NITRILE RUBBER<br>MINIMUM LAYER THICKNESS: 0.11 MM<br>BREAK THROUGH TIME: 480 MIN<br>MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)   |
|   | IF USED IN SOLUTION, OR MIXED WITH OTHER<br>SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER<br>FROM EN 374, CONTACT THE SUPPLIER OF THE CE<br>APPROVED GLOVES. THIS RECOMMENDATION IS<br>ADVISORY ONLY AND MUST BE EVALUATED BY AN<br>INDUSTRIAL HYGIENIST AND SAFETY OFFICER<br>FAMILIAR WITH THE SPECIFIC SITUATION OF<br>ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD<br>NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR<br>ANY SPECIFIC USE SCENARIO.      |
| BODY PROTECTION                         | COMPLETE SUIT PROTECTING AGAINST CHEMICALS,<br>THE TYPE OF PROTECTIVE EQUIPMENT MUST BE<br>SELECTED ACCORDING TO THE CONCENTRATION AND<br>AMOUNT OF THE DANGEROUS SUBSTANCE AT THE<br>SPECIFIC WORKPLACE.  |
| <b>RESPIRATORY</b><br><b>PROTECTION</b> | WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING<br>RESPIRATORS ARE APPROPRIATE USE A FULL-FACE<br>PARTICLE RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN<br>143) RESPIRATOR CARTRIDGES AS A BACKUP TO<br>ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE<br>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<br>NIOSH (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             | White powder                  |
|------------------------|-------------------------------|
| ODOUR                  | NO DATA AVAILABLE             |
| ODOUR THRESHOLD        | NO DATA AVAILABLE             |
| РН                     | 5.0 - 6.5 AT 13.9 G/L AT 25 C |
| MELTING                |                               |
| POINT/FREEZING POINT   |                               |
| INITIAL BOILING POINT  |                               |
| AND BOILING RANGE      |                               |
| FLASH POINT            |                               |
| EVAPORATION 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         | NO DATA AVAILABLE             |
| RELATIVE DENSITY       |                               |
| WATER SOLUBILITY       | CA.13.9 G/L AT 20 C           |
| 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           | NO DATA AVAILABLE             |

## SECTION 10. STABILITY AND REACTIVITY

**INFORMATION** 

| REACTIVITY                               | NO DATA AVAILABLE                            |
|--|--|
| CHEMICAL STABILITY                       | STABLE UNDER RECOMMENDED STORAGE CONDITIONS. |
| POSSIBILITY OF<br>HAZARDOUS<br>REACTIONS | NO DATA AVAILABLE                            |
| CONDITIONS TO AVOID                      | NO DATA AVAILABLE                            |

| INCOMPATIBLE<br>MATERIALS | STRONG REDUCING AGENTS, POWDERED METALS,<br>STRONG ACIDS, ORGANIC MATERIALS, FORMS SHOCK-<br>SENSITIVE MIXTURES WITH CERTAIN OTHER<br>MATERIALS., ALCOHOLS |
|---------------------------|--|
| HAZARDOUS                 | OTHER DECOMPOSITION PRODUCTS - NO DATA   |
| DECOMPOSITION             | AVAILABLE  |
| PRODUCTS                  | IN THE EVENT OF FIRE: SEE SECTION 5  |

# SECTION 11. TOXICOLOGICAL INFORMATION

| INFORMATION ON TOXICOLOGICAL EFFECTS |   |
|--------------------------------------|---|
| ACUTE TOXICITY                       | INHALATION: NO DATA AVAILABLE<br>DERMAL: NO DATA AVAILABLE  |
| SKIN<br>CORROSION/IRRITATION         | NO DATA AVAILABLE   |
| SERIOUS EYE<br>DAMAGE/EYE IRRITATION | NO DATA AVAILABLE   |
| RESPIRATORY OR SKIN<br>SENSITISATION | NO DATA AVAILABLE   |
| GERM CELL<br>MUTAGENICITY            | NO DATA AVAILABLE   |
| CARCINOGENICITY<br>IARC:<br>ACGIH:   | NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS<br>IDENTIFIED AS PROBABLE, POSSIBLE OR<br>CONFIRMED HUMAN CARCINOGEN BY IARC.<br>NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS<br>IDENTIFIED AS A CARCINOGEN OR POTENTIAL |
| NTP:                                 | CARCINOGEN BY ACGIH.<br>NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS<br>IDENTIFIED AS A KNOWN OR ANTICIPATED  |
| OSHA:                                | CARCINOGEN BY NTP.<br>NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS<br>IDENTIFIED AS A CARCINOGEN OR POTENTIAL<br>CARCINOGEN BY OSHA.  |
| REPRODUCTIVE TOXICITY                | DEVELOPMENTAL TOXICITY - RAT - ORAL<br>SPECIFIC DEVELOPMENTAL ABNORMALITIES:<br>ENDOCRINE SYSTEM.   |

| 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: SC9700000<br>BLOOD DISORDERS, ABSORPTION INTO THE BODY<br>LEADS TO THE FORMATION OF METHEMOGLOBIN<br>WHICH IN SUFFICIENT CONCENTRATION CAUSES<br>CYANOSIS. ONSET MAY BE DELAYED 2 TO 4 HOURS<br>OR LONGER.<br>STOMACH - IRREGULARITIES - BASED ON HUMAN<br>EVIDENCE |

# SECTION 12. ECOLOGICAL INFORMATION

| <b>TOXICITY</b><br>TOXICITY TO DAPHNIA AND<br>OTHER AQUATIC<br>INVERTEBRATES | EC50 - DAPHNIA MAGNA (WATER FLEA) - 670 MG/L -<br>24 H   |
|--|--|
| PERSISTENCE AND<br>DEGRADABILITY   | NO DATA AVAILABLE  |
| BIOACCUMULATIVE<br>POTENTIAL   | NO DATA AVAILABLE  |
| MOBILITY IN SOIL   | NO DATA AVAILABLE  |
| RESULTS OF PBT AND<br>VPVB ASSESSMENT  | PBT/VPVB ASSESSMENT NOT AVAILABLE AS<br>CHEMICAL SAFETY ASSESSMENT NOT<br>REQUIRED/NOT CONDUCTED |
| OTHER ADVERSE EFFECTS  | NO DATA AVAILABLE  |

# SECTION 13. DISPOSAL CONSIDERATIONS

#### WASTE TREATMENT METHODS

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

# SECTION 14. TRANSPORT INFORMATION

| DOT (US)<br>PROPER SHIPPING NAME:<br>UN NUMBER:<br>CLASS:<br>PACKING GROUP:<br>MARINE POLLUTANT:<br>POISON INHALATION<br>HAZARD: | POTASSIUM PERCHLORATE<br>1489<br>5.1<br>II<br>NO<br>NO       |
|--|--|
| IMDG<br>PROPER SHIPPING NAME:<br>UN NUMBER:<br>CLASS:<br>PACKING GROUP:<br>EMS-NO:<br>MARINE POLLUTANT:                          | POTASSIUM PERCHLORATE<br>1489<br>5.1<br>II<br>F-H, S-Q<br>NO |
| IATA<br>PROPER SHIPPING NAME:<br>UN NUMBER:<br>CLASS:<br>PACKING GROUP:  | POTASSIUM PERCHLORATE<br>1489<br>5.1<br>II                   |

# SECTION 15. REGULATORY INFORMATION

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

| SARA 311/312 HAZARDS                  | REACTIVITY HAZARD, ACU<br>CHRONIC HEALTH HAZARD                                | FE HEALTH HAZARD,          |
|---------------------------------------|--|----------------------------|
| MASSACHUSETTS RIGHT                   | <b>FO KNOW COMPONENTS</b><br>CAS-NO.   | REVISION DATE              |
| Potassium perchlorate                 | 7778-74-7  | 4/24/1993                  |
| PENNSYLVANIA RIGHT TO KNOW COMPONENTS |  |                            |
| Potassium perchlorate                 | CAS-NO.<br>7778-74-7   | REVISION DATE<br>4/24/1993 |
| NEW JERSEY RIGHT TO KNOW COMPONENTS   |  |                            |
|                                       | CAS-<br>NO.  | REVISION DATE              |
| Potassium perchlorate                 | 7778-74-7  | 4/24/1993                  |
| CALIFORNIA PROP. 65<br>COMPONENTS     | THIS PRODUCT DOES NOT C<br>KNOWN TO STATE OF CALIF<br>BIRTH DEFECTS, OR ANY OT |                            |

# SECTION 16. OTHER INFORMATION

| FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3. |   |  |
|---|---|--|
| ACUTE TOX.  | ACUTE TOXICITY                                |  |
| H271  | MAY CAUSE FIRE OR EXPLOSION; STRONG OXIDISER. |  |
| H302  | HARMFUL IF SWALLOWED.                         |  |
| OX. SOL.  | OXIDIZING SOLIDS                              |  |
|   |   |  |

\_\_\_\_\_

#### HMIS RATING

| HEALTH HAZARD:  | 1 |
|-----------------|---|
| CHRONIC HEALTH  | * |
| HAZARD:         |   |
| FLAMMABILITY:   | 0 |
| PHYSICAL HAZARD | 2 |
|                 |   |

#### NFPA RATING

| HEALTH HAZARD:     | 1  |
|--------------------|----|
| FIRE HAZARD:       | 0  |
| REACTIVITY HAZARD: | 2  |
| SPECIAL HAZARD.I:  | OX |

| 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 ADMINISTRATIONPEL:PERMISSIBLE EXPOSURE LIMIT (OSHA)TLV:THRESHOLD LIMIT VALUE (ACGIH)

IMPORTANT:

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