# **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 #:                      | 30604   |
|---------------------------------|---|
| NAME:                           | Magneisum perchlorate hexahydrate                   |
| SYNONYMS:                       |   |
| 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 2), H272 SKIN IRRITATION (CATEGORY 2), H315 EYE IRRITATION (CATEGORY 2A), H319 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (CATEGORY 3), RESPIRATORY SYSTEM, H335 FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM



| SIGNAL WORD        | DANGER  |
|--------------------|---|
| HAZARD STATEMENT   | (S)   |
| H272               | MAY INTENSIFY FIRE; OXIDISER.                           |
| H315               | CAUSES SKIN IRRITATION.                                 |
| H319               | CAUSES SERIOUS EYE IRRITATION.                          |
| H315<br>H335       | MAY CAUSE RESPIRATORY IRRITATION.                       |
| 11555              | MAT CAUSE RESTINATORY INRITATION.                       |
| PRECAUTIONARY STA  | TEMENT(S)   |
| P210               | KEEP AWAY FROM HEAT.                                    |
| P220               | KEEP/STORE AWAY FROM CLOTHING/ COMBUSTIBLE              |
|                    | MATERIALS.  |
| P221               | TAKE ANY PRECAUTION TO AVOID MIXING WITH                |
|                    | COMBUSTIBLES.   |
|                    |   |
| P261               | AVOID BREATHING DUST/ FUME/ GAS/ MIST/ VAPOURS/ SPRAY.  |
| P264               | WASH SKIN THOROUGHLY AFTER HANDLING.                    |
| P271               | USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.         |
| P280               | WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE        |
|                    | PROTECTION/ FACE PROTECTION.                            |
| P302 + P352        | IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER          |
| 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.                                |
| P312               | CALL A POISON CENTER OR DOCTOR/ PHYSICIAN IF YOU FEEL   |
|                    | UNWELL.   |
| P321               | SPECIFIC TREATMENT (SEE SUPPLEMENTAL FIRST AID          |
|                    | INSTRUCTIONS ON THIS LABEL).                            |
| P332 + P313        | IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/          |
|                    | ATTENTION.  |
| P337 + P313        | IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/         |
|                    | ATTENTION.  |
| P362               | TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE          |
|                    | REUSE.  |
| P370 + P378        | IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR          |
|                    | ALCOHOL-RESISTANT FOAM FOR EXTINCTION.                  |
| P403 + P233        | STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER        |
|                    | TIGHTLY CLOSED.   |
| P405               | STORE LOCKED UP.  |
| P501               | DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE     |
|                    | DISPOSAL PLANT.   |
|                    |   |
| HAZARDS NOT        | NONE  |
|                    |   |

OTHERWISE

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

| MF:     | $Mg(ClO_4)_2 \cdot 6H_2O$ |
|---------|---------------------------|
| MW:     | 331.29                    |
| CAS-NO. | 13446-19-0                |
| PURITY: | $\geq$ 99% Metals basis   |

#### HAZARDOUS COMPONENTS

| COMPONENT                         | CLASSIFICATION                 | CONCENTRATION |
|-----------------------------------|--------------------------------|---------------|
| Magneisum perchlorate hexahydrate |                                |               |
|                                   | OX. SOL. 2; SKIN IRRIT. 2; EYE | -             |
| IRRIT. 2A; STOT SE 3; H272, H315, |                                |               |
|                                   | H319, H335                     |               |
|                                   | THE IL CTATEMENTO MENITIONED I |               |

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<br>TO THE DOCTOR IN ATTENDANCE.MOVE OUT OF<br>DANGEROUS 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 | WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.  |
| IN CASE OF EYE<br>CONTACT  | RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.                                |
| IF SWALLOWED               | NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS<br>PERSON. RINSE MOUTH WITH WATER. CONSULT A<br>PHYSICIAN.             |

| MOST IMPORTANT      | THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS    |
|---------------------|--|
| SYMPTOMS AND        | ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) |
| EFFECTS, BOTH ACUTE | AND/OR IN SECTION 11.                            |
| AND DELAYED         |  |

**INDICATION OF ANY** NO DATA AVAILABLE

IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

#### 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, MAGNESIUM OXIDE       |
| ADVICE FOR  | WEAR SELF-CONTAINED BREATHING APPARATUS FOR  |
| FIREFIGHTERS  | 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 DUST<br>FORMATION. AVOID BREATHING VAPOURS, MIST OR GAS.<br>ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL<br>TO SAFE AREAS. AVOID BREATHING DUST.<br>FOR PERSONAL PROTECTION SEE SECTION 8.  |
|---|---|
| ENVIRONMENTAL<br>PRECAUTIONS  | DO NOT LET PRODUCT ENTER DRAINS.  |
| METHODS AND<br>MATERIALS FOR<br>CONTAINMENT AND<br>CLEANING UP                  | SWEEP UP AND SHOVEL. CONTAIN SPILLAGE, AND THEN<br>COLLECT WITH AN ELECTRICALLY PROTECTED VACUUM<br>CLEANER OR BY WETBRUSHING AND PLACE IN<br>CONTAINER FOR DISPOSAL ACCORDING TO LOCAL<br>REGULATIONS (SEE SECTION 13). KEEP IN SUITABLE,<br>CLOSED CONTAINERS FOR DISPOSAL. |

#### SECTION 7. HANDLING AND STORAGE

| PRECAUTIONS FOR SAFE<br>HANDLING                                   | AVOID CONTACT WITH SKIN AND EYES. AVOID<br>FORMATION OF DUST AND AEROSOLS. PROVIDE<br>APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE<br>DUST IS FORMED. KEEP AWAY FROM SOURCES OF<br>IGNITION - NO SMOKING.KEEP AWAY FROM HEAT AND<br>SOURCES OF IGNITION.<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.   |
| SPECIFIC END USE(S)  | APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED.   |

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

#### **CONTROL PARAMETERS**

| COMPONENTS WITH   | CONTAINS NO SUBSTANCES WITH OCCUPATIONAL |
|-------------------|--|
| WORKPLACE CONTROL | EXPOSURE LIMIT VALUES.                   |
| PARAMETERS        |  |

#### **EXPOSURE CONTROLS**

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

#### PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTIONSAFETY GLASSES WITH SIDE-SHIELDS CONFORMING TO<br/>EN166 USE EQUIPMENT FOR EYE PROTECTION TESTED AND<br/>APPROVED UNDER APPROPRIATE GOVERNMENT<br/>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 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.   |
|---|---|
|   | 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 ADVISORY<br>ONLY AND MUST BE EVALUATED BY AN INDUSTRIAL<br>HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE<br>SPECIFIC SITUATION OF ANTICIPATED USE BY OUR<br>CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING<br>AN APPROVAL FOR ANY SPECIFIC USE SCENARIO.      |
| BODY PROTECTION                         | IMPERVIOUS CLOTHING, THE TYPE OF PROTECTIVE<br>EQUIPMENT MUST BE SELECTED ACCORDING TO THE<br>CONCENTRATION AND AMOUNT OF THE DANGEROUS<br>SUBSTANCE AT THE SPECIFIC WORKPLACE.   |
| RESPIRATORY PROTECTION                  | WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING<br>RESPIRATORS ARE APPROPRIATE USE A FULL-FACE<br>PARTICLE RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN 143)<br>RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING<br>CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF<br>PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR.<br>USE RESPIRATORS AND COMPONENTS TESTED AND<br>APPROVED UNDER APPROPRIATE GOVERNMENT<br>STANDARDS SUCH AS NIOSH (US) OR CEN (EU). |
| CONTROL OF<br>ENVIRONMENTAL<br>EXPOSURE | DO NOT LET PRODUCT ENTER DRAINS.  |

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

·\_\_\_\_\_

#### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| APPEARANCE             |   |
|------------------------|---|
| ODOUR                  | NO DATA AVAILABLE                                   |
| ODOUR THRESHOLD        | NO DATA AVAILABLE                                   |
| PH                     | NO DATA AVAILABLE                                   |
| MELTING                | 185 - 190 °C  |
| POINT/FREEZING POINT   |   |
| INITIAL BOILING POINT  |   |
| AND BOILING RANGE      |   |
| FLASH POINT            |   |
| 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         | NO DATA AVAILABLE                                   |
| RELATIVE DENSITY       |   |
| 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   | THE SUBSTANCE OR MIXTURE IS CLASSIFIED AS OXIDIZING |
|                        | WITH THE CATEGORY 2.                                |
| OTHER SAFETY           | NO DATA AVAILABLE                                   |
| INFORMATION            |   |

#### SECTION 10. STABILITY AND REACTIVITY

| REACTIVITY                            | NO DATA AVAILABLE                                      |
|---------------------------------------|--|
| CHEMICAL STABILITY                    | STABLE UNDER RECOMMENDED STORAGE CONDITIONS.           |
| POSSIBILITY OF<br>HAZARDOUS REACTIONS | NO DATA AVAILABLE                                      |
| CONDITIONS TO AVOID                   | NO DATA AVAILABLE                                      |
| INCOMPATIBLE<br>MATERIALS             | STRONG REDUCING AGENTS, POWDERED METALS, STRONG ACIDS. |

HAZARDOUS DECOMPOSITION PRODUCTS

OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE 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<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  |   |
| 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  |
| NTP:   | CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.<br>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 IDENTIFIED AS A<br>CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.   |
| REPRODUCTIVE TOXICITY                                  | NO DATA AVAILABLE   |
| SPECIFIC TARGET ORGAN<br>TOXICITY - SINGLE<br>EXPOSURE | INHALATION - MAY CAUSE RESPIRATORY IRRITATION.  |

| SPECIFIC TARGET ORGAN<br>TOXICITY - REPEATED<br>EXPOSURE | NO DATA AVAILABLE   |
|--|---|
| ASPIRATION HAZARD  | NO DATA AVAILABLE   |
| ADDITIONAL<br>INFORMATION                                | RTECS: NOT AVAILABLE  |
|  | TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL,<br>PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT<br>BEEN THOROUGHLY INVESTIGATED. |

# SECTION 12. ECOLOGICAL INFORMATION

| TOXICITY                              | NO DATA AVAILABLE   |
|---------------------------------------|---|
| PERSISTENCE AND<br>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 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   |
|--------------|---|
|              | AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE     |
|              | IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE. |
|              | OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO     |
|              | A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED   |
|              | PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE    |
|              | OF THIS MATERIAL.                                 |
|              |   |
| CONTAMINATED | DISPOSE OF AS UNUSED PRODUCT.                     |

PACKAGING

## SECTION 14. TRANSPORT INFORMATION

| DOT (US)              |   |
|-----------------------|---|
| PROPER SHIPPING NAME: | MAGNESIUM PERCHLORATE (Magneisum perchlorate hexahydrate) |
| UN NUMBER:            | 1475  |
| CLASS:                | 5.1   |
| PACKING GROUP:        | II  |
| REPORTABLE QUANTITY   |   |
| (RQ):                 |   |
| MARINE POLLUTANT:     | NO  |
| POISON INHALATION     | NO  |
| HAZARD:               |   |
|                       |   |
| IMDG                  |   |
| PROPER SHIPPING NAME: | MAGNESIUM PERCHLORATE (Magneisum perchlorate hexahydrate) |
| UN NUMBER:            | 1475  |
| CLASS:                | 5.1   |
| PACKING GROUP:        | II  |
| EMS-NO:               | F-H, S-Q  |
| MARINE POLLUTANT:     | NO  |
|                       |   |
| IATA                  |   |
| PROPER SHIPPING NAME: | MAGNESIUM PERCHLORATE (Magneisum perchlorate              |
|                       | hexahydrate)  |
| UN NUMBER:            | 1475  |
| CLASS:                | 5.1   |
| PACKING GROUP:        | II  |
|                       |   |

#### SECTION 15. REGULATORY INFORMATION

| SARA 302 COMPONENTS   |   | TERIAL ARE SUBJECT TO THE<br>S OF SARA TITLE III, SECTION |
|---|---|---|
| SARA 313 COMPONENTS   | THIS MATERIAL DOES NOT<br>COMPONENTS WITH KNOW<br>EXCEED THE THRESHOLD (<br>LEVELS ESTABLISHED BY S | 'N CAS NUMBERS THAT                                       |
| SARA 311/312 HAZARDS  | REACTIVITY HAZARD, ACU  | TE HEALTH HAZARD  |
| MASSACHUSETTS RIGHT TO KNOW COMPONENTS<br>CAS-NO. REVISION DATE |   |   |

| Magneisum perchlorate<br>hexahydrate | 13446-19-0        | 04-24-1993                     |  |
|--------------------------------------|-------------------|--------------------------------|--|
| PENNSYLVANIA RIGHT T                 | O KNOW COMPONENT  | S                              |  |
|                                      | CAS-              | <b>REVISION DATE</b>           |  |
|                                      | NO.               |                                |  |
| Magneisum perchlorate                | 13446-19-0        | 04-24-1993                     |  |
| hexahydrate                          |                   |                                |  |
| NEW JERSEY RIGHT TO KNOW COMPONENTS  |                   |                                |  |
|                                      | CAS-NO.           | <b>REVISION DATE</b>           |  |
| Magneisum perchlorate                | 13446-19-0        | 04-24-1993                     |  |
| hexahydrate                          |                   |                                |  |
| CALIFORNIA PROP. 65                  | THIS PRODUCT DOP  | ES NOT CONTAIN ANY CHEMICALS   |  |
| COMPONENTS                           | KNOWN TO STATE (  | OF CALIFORNIA TO CAUSE CANCER, |  |
|                                      | BIRTH DEFECTS, OF | ANY OTHER REPRODUCTIVE HARM.   |  |

# SECTION 16. OTHER INFORMATION

| FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3. |  |  |
|---|--|--|
| EYE IRRIT.  | EYE IRRITATION                                   |  |
| H272  | MAY INTENSIFY FIRE; OXIDISER.                    |  |
| H315  | CAUSES SKIN IRRITATION.                          |  |
| H319  | CAUSES SERIOUS EYE IRRITATION.                   |  |
| H335  | MAY CAUSE RESPIRATORY IRRITATION.                |  |
| OX. SOL.  | OXIDIZING SOLIDS                                 |  |
| SKIN IRRIT.   | SKIN IRRITATION                                  |  |
| STOT SE   | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE |  |
|   |  |  |
| HMIS RATING   |  |  |
| HEALTH HAZARD:  | 2  |  |
| CHRONIC HEALTH HAZARD:  |  |  |
| FLAMMABILITY:   | 0  |  |
| PHYSICAL HAZARD   | 2  |  |
|   |  |  |
| NFPA RATING   |  |  |
| HEALTH HAZARD:  | 2  |  |
| 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 ADMINISTRATION |
| PEL:  | PERMISSIBLE EXPOSURE LIMIT (OSHA)             |
| TLV:  | THRESHOLD LIMIT VALUE (ACGIH)                 |
|       |   |

#### IMPORTANT:

THE INFORMATION ABOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES. IN NO EVENT SHALL **CII** BE LIABLE FOR ANY CLAIMS, LOSSES, OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF **CII** HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

VERSION: 2.1. REVISION DATE: 08/17/2015