# **Chem-Impex International Inc.**

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# SAFETY DATA SHEET

# SECTION 1. CHEMICAL IDENTIFICATION

| CATALOG #:                      | 00784   |
|---------------------------------|---|
| NAME:                           | Sodium selenite                                     |
| SYNONYMS:                       | Selenious acid disodium salt                        |
| 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) ACUTE TOXICITY, ORAL (CATEGORY 2), H300 ACUTE TOXICITY, INHALATION (CATEGORY 2), H330 SKIN IRRITATION (CATEGORY 2), H315 EYE IRRITATION (CATEGORY 2A), H319 SKIN SENSITISATION (CATEGORY 1), H317 SHORT-TERM (ACUTE) AQUATIC HAZARD (CATEGORY 2), H401 LONG-TERM (CHRONIC) AQUATIC HAZARD (CATEGORY 2), H411

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)

| H300 + H330 | FATAL IF SWALLOWED OR IF INHALED.                |
|-------------|--|
| H315        | CAUSES SKIN IRRITATION.                          |
| H317        | MAY CAUSE AN ALLERGIC SKIN REACTION.             |
| H319        | CAUSES SERIOUS EYE IRRITATION.                   |
| H411        | TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. |

#### **PRECAUTIONARY STATEMENT(S)**

| P260               | DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPOURS/      |
|--------------------|---|
| 1200               | SPRAY.  |
| P264               | WASH SKIN THOROUGHLY AFTER HANDLING.                |
| P270               | DO NOT EAT, DRINK OR SMOKE WHEN USING THIS          |
| 1270               | PRODUCT.  |
| P271               | USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.     |
| P271<br>P272       | CONTAMINATED WORK CLOTHING SHOULD NOT BE            |
| P272               | ALLOWED OUT OF THE WORKPLACE.                       |
| D272               | AVOID RELEASE TO THE ENVIRONMENT.                   |
| P273               |   |
| P280               | WEAR PROTECTIVE GLOVES/ EYE PROTECTION/ FACE        |
| D204               | PROTECTION.   |
| P284               | WEAR RESPIRATORY PROTECTION.                        |
| P301 + P310 + P330 | IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR   |
| D202 - D252        | DOCTOR/ PHYSICIAN. RINSE MOUTH.                     |
| P302 + P352        | IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.     |
| P304 + P340 + P310 | IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP     |
|                    | COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A       |
|                    | POISON CENTER/DOCTOR.                               |
| P305 + P351 + P338 | IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL |
|                    | MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND      |
|                    | EASY TO DO. CONTINUE RINSING.                       |
| P333 + P313        | IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL      |
|                    | ADVICE/ ATTENTION.                                  |
| P337 + P313        | IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/     |
|                    | ATTENTION.  |
| P362               | TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE      |
|                    | REUSE.  |
| P391               | COLLECT SPILLAGE.                                   |
| P403 + P233        | STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER    |
|                    | TIGHTLY CLOSED.                                     |
| P405               | STORE LOCKED UP.                                    |
|                    |   |

DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT.

HAZARDS NOTNONEOTHERWISECLASSIFIED (HNOC)OR NOT COVEREDBY GHS

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| MF:     | Na <sub>2</sub> SeO <sub>3</sub> |
|---------|----------------------------------|
| MW:     | 172.94                           |
| CAS-NO. | 10102-18-8                       |
| PURITY: | $\geq$ 98%                       |

#### HAZARDOUS COMPONENTS

| COMPONENT       | CLASSIFICATION               | CONCENTRATION |
|-----------------|------------------------------|---------------|
| Sodium selenite |                              |               |
|                 | ACUTE TOX. 2; SKIN IRRIT. 2; | <= 100 %      |
|                 | EYE IRRIT. 2A; SKIN SENS. 1; |               |
|                 | AQUATIC ACUTE 2; AQUATIC     |               |
|                 | CHRONIC 2; H300, H330, H315, |               |
|                 | H319, H317, H401, H411       |               |

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. TAKE<br>VICTIM IMMEDIATELY TO HOSPITAL. CONSULT A<br>PHYSICIAN.               |

P501

| IN CASE OF EYE      | RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT |
|---------------------|--|
| CONTACT             | LEAST 15 MINUTES AND CONSULT A PHYSICIAN.    |
| IF SWALLOWED        | NEVER GIVE ANYTHING BY MOUTH TO AN           |
|                     | UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER.  |
|                     | CONSULT A PHYSICIAN.                         |
| MOST IMPORTANT      | THE MOST IMPORTANT KNOWN SYMPTOMS AND        |
| SYMPTOMS AND        | EFFECTS ARE DESCRIBED IN THE LABELLING (SEE  |
| EFFECTS, BOTH ACUTE | SECTION 2.2) 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<br>EXTINGUISHING MEDIA                             | DRY POWDER DRY SAND  |
|---|--|
| SPECIAL HAZARDS<br>ARISING FROM THE<br>SUBSTANCE OR MIXTURE | SODIUM OXIDES, SELENIUM/SELENIUM OXIDES                                |
| ADVICE FOR<br>FIREFIGHTERS                                  | WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY. |
| FURTHER INFORMATION   | NO DATA AVAILABLE  |

# SECTION 6. ACCIDENTAL RELEASE MEASURES

| PERSONAL<br>PRECAUTIONS,<br>PROTECTIVE<br>EQUIPMENT AND<br>EMERGENCY<br>PROCEDURES | WEAR RESPIRATORY PROTECTION. AVOID DUST<br>FORMATION. AVOID BREATHING VAPOURS, MIST OR<br>GAS. ENSURE ADEQUATE VENTILATION. EVACUATE<br>PERSONNEL TO SAFE AREAS. AVOID BREATHING DUST.<br>FOR PERSONAL PROTECTION SEE SECTION 8. |
|--|--|
| ENVIRONMENTAL  | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE  |
| PRECAUTIONS  | TO DO SO. DO NOT LET PRODUCT ENTER DRAINS.   |

DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

METHODS ANDPICK UP AND ARRANGE DISPOSAL WITHOUTMATERIALS FORCREATING DUST. SWEEP UP AND SHOVEL. DO NOTCONTAINMENT ANDFLUSH WITH WATER. KEEP IN SUITABLE, CLOSEDCLEANING UPCONTAINERS FOR DISPOSAL.

**REFERENCE TO OTHER** FOR DISPOSAL SEE SECTION 13. **SECTIONS** 

# SECTION 7. HANDLING AND STORAGE

| PRECAUTIONS FOR SAFE       | AVOID CONTACT WITH SKIN AND EYES. AVOID       |
|----------------------------|---|
| HANDLING                   | FORMATION OF DUST AND AEROSOLS.FURTHER        |
|                            | PROCESSING OF SOLID MATERIALS MAY RESULT IN   |
|                            | THE FORMATION OF COMBUSTIBLE DUSTS. THE       |
|                            | POTENTIAL FOR COMBUSTIBLE DUST FORMATION      |
|                            | SHOULD BE TAKEN INTO CONSIDERATION BEFORE     |
|                            | ADDITIONAL PROCESSING OCCURS.                 |
|                            | PROVIDE APPROPRIATE EXHAUST VENTILATION AT    |
|                            | PLACES WHERE DUST IS FORMED.                  |
|                            | FOR PRECAUTIONS SEE SECTION 2.2.              |
|                            |   |
| CONDITIONS FOR SAFE        | KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND    |
| STORAGE, INCLUDING         | WELL-VENTILATED PLACE.                        |
| ANY INCOMPATIBILITIES      | NEVER ALLOW PRODUCT TO GET IN CONTACT WITH    |
|                            | WATER DURING STORAGE. DO NOT STORE NEAR       |
|                            | ACIDS. KEEP IN A DRY PLACE.                   |
|                            |   |
|                            | Store at RT                                   |
| OPECIFIC END LICE(C)       | ADADT EDOM THE LICES MENTIONED IN SECTION 1.2 |
| <b>SPECIFIC END USE(S)</b> | 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 WORKPLACE CONTROL PARAMETERS**

| COMPONENT       | CAS-NO.    | VALUE | CONTROL    | BASIS                    |
|-----------------|------------|-------|------------|--------------------------|
|                 |            |       | PARAMETERS |                          |
| Sodium selenite | 10102-18-8 | TWA   | 0.2 MG/M3  | USA. OCCUPATIONAL        |
|                 |            |       |            | EXPOSURE LIMITS (OSHA) - |
|                 |            |       |            | TABLE Z-1 LIMITS FOR AIR |
|                 |            |       |            | CONTAMINANTS             |

|       | TWA | 0.2 MG/M3                 | USA. ACGIH THRESHOLD<br>LIMIT VALUES (TLV)                             |
|-------|-----|---------------------------|--|
| REMAR |     | RESPIRATORY 7<br>RITATION | TRACT IRRITATION   |
|       | TWA | 0.2 MG/M3                 | USA. NIOSH RECOMMENDED<br>EXPOSURE LIMITS                              |
|       | PEL | 0.2 MG/M3                 | CALIFORNIA PERMISSIBLE<br>EXPOSURE LIMITS FOR<br>CHEMICAL CONTAMINANTS |

#### **EXPOSURE CONTROLS**

| APPROPRIATE | AVOID CONTACT WITH SKIN, EYES AND CLOTHING. |
|-------------|---|
| ENGINEERING | WASH HANDS BEFORE BREAKS AND IMMEDIATELY    |
| CONTROLS    | AFTER HANDLING THE PRODUCT.                 |

#### PERSONAL PROTECTIVE EQUIPMENT

**EYE/FACE PROTECTION** FACE SHIELD AND SAFETY GLASSES 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<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 MATERIAL: NITRILE RUBBER MINIMUM LAYER THICKNESS: 0.11 MM BREAK THROUGH TIME: 480 MIN MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)

SPLASH CONTACT MATERIAL: NITRILE RUBBER MINIMUM LAYER THICKNESS: 0.11 MM BREAK THROUGH TIME: 480 MIN MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)

IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374, CONTACT THE SUPPLIER OF THE CE APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY SPECIFIC USE SCENARIO.

| <b>BODY PROTECTION</b> | COMPLETE SUIT PROTECTING AGAINST CHEMICALS, |
|------------------------|---|
|                        | THE TYPE OF PROTECTIVE EQUIPMENT MUST BE    |
|                        | SELECTED ACCORDING TO THE CONCENTRATION AND |
|                        | AMOUNT OF THE DANGEROUS SUBSTANCE AT THE    |
|                        | SPECIFIC WORKPLACE.                         |

RESPIRATORY<br/>PROTECTIONWHERE RISK ASSESSMENT SHOWS AIR-PURIFYING<br/>RESPIRATORS ARE APPROPRIATE USE A FULLFACE<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 OFDREVENT EURTUED LEAK ACE OR SPULLACE IS SAFE TO

| CONTROL OF    | PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO |
|---------------|--|
| ENVIRONMENTAL | DO SO. DO NOT LET PRODUCT ENTER DRAINS.        |
| EXPOSURE      | DISCHARGE INTO THE ENVIRONMENT MUST BE         |
|               | AVOIDED.                                       |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| APPEARANCE             | White to off-white crystalline powder |
|------------------------|---------------------------------------|
| ODOUR                  | ODOURLESS                             |
| ODOUR THRESHOLD        | NO DATA AVAILABLE                     |
| PH                     | NO DATA AVAILABLE                     |
| MELTING                |                                       |
| POINT/FREEZING POINT   |                                       |
| INITIAL BOILING POINT  |                                       |
| AND BOILING RANGE      |                                       |
| FLASH POINT            |                                       |
| EVAPORATION RATE       | NO DATA AVAILABLE                     |
| FLAMMABILITY (SOLID,   | NOT AUTO-FLAMMABLE                    |
| GAS)                   |                                       |
| UPPER/LOWER            | NO DATA AVAILABLE                     |
| FLAMMABILITY OR        |                                       |
| EXPLOSIVE LIMITS       |                                       |
| VAPOUR PRESSURE        | < 0.00133 HPA AT 20 C                 |
| VAPOUR DENSITY         | NO DATA AVAILABLE                     |
| RELATIVE DENSITY       |                                       |
| WATER SOLUBILITY       | 898 G/L AT 25 C - SOLUBLE             |
| PARTITION COEFFICIENT: | NO DATA AVAILABLE                     |
| N- OCTANOL/WATER       |                                       |
| AUTO-IGNITION          | > 400 C AT 1,013.25 HPA               |
| TEMPERATURE            |                                       |
| DECOMPOSITION          | NO DATA AVAILABLE                     |
| TEMPERATURE            |                                       |
|                        |                                       |

| VISCOSITY            | NO DATA AVAILABLE  |
|----------------------|--|
| EXPLOSIVE PROPERTIES | NO DATA AVAILABLE  |
| OXIDIZING PROPERTIES | THE SUBSTANCE OR MIXTURE IS NOT CLASSIFIED AS OXIDIZING. |

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<br>REACTIONS | NO DATA AVAILABLE   |
| CONDITIONS TO AVOID                      | NO DATA AVAILABLE   |
| INCOMPATIBLE<br>MATERIALS                | STRONG ACIDS  |
| HAZARDOUS<br>DECOMPOSITION<br>PRODUCTS   | HAZARDOUS DECOMPOSITION PRODUCTS FORMED<br>UNDER FIRE CONDITIONS SODIUM OXIDES,<br>SELENIUM/SELENIUM OXIDES<br>OTHER DECOMPOSITION PRODUCTS - NO DATA<br>AVAILABLE<br>IN THE EVENT OF FIRE: SEE SECTION 5 |

# SECTION 11. TOXICOLOGICAL INFORMATION

# INFORMATION ON TOXICOLOGICAL EFFECTS

| ACUTE TOXICITY                       | LD50 ORAL - RAT - 7 MG/KG<br>REMARKS: BEHAVIORAL: SOMNOLENCE (GENERAL<br>DEPRESSED ACTIVITY). LUNGS, THORAX, OR<br>RESPIRATION: DYSPNEA. DIARRHOEA<br>LD50 ORAL - RAT - MALE - 7 MG/KG   |  |
|--------------------------------------|--|--|
|                                      | LC50 INHALATION - RAT - MALE AND FEMALE - 4 H - > 0.052 - 0.51 MG/L  |  |
|                                      | DERMAL: NO DATA AVAILABLE  |  |
|                                      | LD50 INTRAVENOUS - RAT - 3 MG/KG<br>LD50 PARENTERAL - RAT - 6.57 MG/KG<br>LD50 SUBCUTANEOUS - MOUSE - 13 MG/KG<br>LD50 INTRAVENOUS - MOUSE - 5 MG/KG<br>REMARKS: PERIPHERAL NERVE AND SENSATION:<br>FLACCID PARALYSIS WITHOUT ANESTHESIA<br>(USUALLY NEUROMUSCULAR BLOCKAGE).<br>CARDIAC: OTHER CHANGES. LUNGS, THORAX, OR<br>RESPIRATION: OTHER CHANGES.<br>LD50 INTRACERVICAL - MOUSE - 0.3 MG/KG<br>REMARKS: PERIPHERAL NERVE AND SENSATION:<br>FLACCID PARALYSIS WITHOUT ANESTHESIA<br>(USUALLY NEUROMUSCULAR BLOCKAGE).<br>BEHAVIORAL: CHANGE IN MOTOR ACTIVITY<br>(SPECIFIC ASSAY). LUNGS, THORAX, OR<br>RESPIRATION: DYSPNEA. |  |
|                                      | LD50 INTRAVENOUS - DOG - 1.916 MG/KG<br>REMARKS: CARDIAC: ARRYTHMIAS (INCLUDING<br>CHANGES IT CONDUCTION). LUNGS, THORAX, OR<br>RESPIRATION: RESPIRATORY STIMULATION.<br>DIARRHOEA   |  |
|                                      | LD50 INTRAMUSCULAR - RABBIT - 2.53 MG/KG<br>LD50 PARENTERAL - CHICKEN - 8.5 MG/KG<br>LD50 INTRAMUSCULAR - DOMESTIC ANIMALS - 1.533<br>MG/KG<br>REMARKS: SENSE ORGANS AND SPECIAL SENSES<br>(NOSE, EYE, EAR, AND TASTE): OLFACTION: OTHER<br>CHANGES. BEHAVIORAL: SOMNOLENCE (GENERAL<br>DEPRESSED ACTIVITY). LUNGS, THORAX, OR<br>RESPIRATION: DYSPNEA.  |  |
| SKIN<br>CORROSION/IRRITATION         | SKIN - RECONSTRUCTED HUMAN EPIDERMIS (RHE)<br>RESULT: IRRITATING TO SKIN.  |  |
| SERIOUS EYE<br>DAMAGE/EYE IRRITATION | NO DATA AVAILABLE  |  |
| RESPIRATORY OR SKIN<br>SENSITISATION | MOUSE<br>MAY CAUSE ALLERGIC SKIN REACTION.   |  |

| GERM CELL<br>MUTAGENICITY                                | REVERSE MUTATION ASSAY<br>SALMONELLA TYPHIMURIUM<br>RESULT: NEGATIVE   |
|--|--|
|  | MOUSE MALE<br>RESULT: NEGATIVE   |
| CARCINOGENICITY  | THIS PRODUCT IS OR CONTAINS A COMPONENT THAT<br>IS NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY<br>BASED ON ITS IARC, ACGIH, NTP, OR EPA<br>CLASSIFICATION.        |
| IARC:  | NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS<br>IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED<br>HUMAN CARCINOGEN BY IARC. |
| NTP:   | NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS<br>IDENTIFIED AS A KNOWN OR ANTICIPATED<br>CARCINOGEN BY NTP.                 |
| OSHA:  | NO COMPONENT OF THIS PRODUCT PRESENT AT<br>LEVELS GREATER THAN OR EQUAL TO 0.1% IS ON<br>OSHA S LIST OF REGULATED CARCINOGENS.                                   |
| <b>REPRODUCTIVE TOXICITY</b>                             | 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   |
|  | SALIVATION, TREMORS, ALOPECIA., VOMITING, DERMATITIS   |
|  | TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL,<br>PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE<br>NOT BEEN THOROUGHLY INVESTIGATED.                                  |

# SECTION 12. ECOLOGICAL INFORMATION

# TOXICITY

| TOXICITY TO FISH<br>TOXICITY TO DAPHNIA AND<br>OTHER AQUATIC<br>INVERTEBRATES<br>TOXICITY TO ALGAE | LC50 - ONCORHYNCHUS MYKISS (RAINBOW TROUT) -<br>2.75 MG/L - 96.0 H<br>LC50 - ONCORHYNCHUS MYKISS (RAINBOW TROUT) -<br>8.1 MG/L - 96 H<br>REMARKS: (LIT.)<br>LC50 - DAPHNIA MAGNA (WATER FLEA) - 0.25 MG/L -<br>48 H<br>STATIC TEST EC50 - CHLAMYDOMONAS<br>REINHARDTII (GREEN ALGAE) - 6.32 MG/L - 96 H |
|--|---|
| PERSISTENCE AND<br>DEGRADABILITY   | NO DATA AVAILABLE   |
| BIOACCUMULATIVE POTENT<br>BIOACCUMULATION  | TIAL<br>LEPOMIS MACROCHIRUS - 120 D<br>- 10 G/L(SODIUM SELENITE)<br>BIOCONCENTRATION FACTOR (BCF): 1,850  |
| 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  | AN ENVIRONMENTAL HAZARD CANNOT BE<br>EXCLUDED IN THE EVENT OF UNPROFESSIONAL<br>HANDLING OR DISPOSAL.<br>TOXIC TO AQUATIC LIFE WITH LONG LASTING<br>EFFECTS.  |
|  |   |

#### SECTION 13. DISPOSAL CONSIDERATIONS

## WASTE TREATMENT METHODS

**PRODUCT**CONTACT A LICENSED PROFESSIONAL WASTE<br/>DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.<br/>DISSOLVE OR MIX THE MATERIAL WITH A<br/>COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL<br/>INCINERATOR EQUIPPED WITH AN AFTERBURNER AND<br/>SCRUBBER. OFFER SURPLUS AND NON-RECYCLABLE<br/>SOLUTIONS TO A LICENSED DISPOSAL COMPANY.

CONTAMINATEDDISPOSE OF AS UNUSED PRODUCT.PACKAGING

SECTION 14. TRANSPORT INFORMATION

| DOT (US)                   |                             |
|----------------------------|-----------------------------|
| PROPER SHIPPING NAME:      | SELENITES (SODIUM SELENITE) |
| UN NUMBER:                 | 2630                        |
| CLASS:                     | 6.1                         |
| PACKING GROUP:             | Ι                           |
| <b>REPORTABLE QUANTITY</b> | 100 LBS                     |
| (RQ):                      |                             |
| POISON INHALATION          | NO                          |
| HAZARD:                    |                             |
|                            |                             |
| IMDG                       |                             |
| PROPER SHIPPING NAME:      | SELENITES (SODIUM SELENITE) |
| UN NUMBER:                 | 2630                        |
| CLASS:                     | 6.1                         |
| PACKING GROUP:             | Ι                           |
| EMS-NO:                    | F-A, S-A                    |
| MARINE POLLUTANT:          | YES                         |
|                            |                             |
| IATA                       |                             |
| PROPER SHIPPING NAME:      | SELENITES (SODIUM SELENITE) |
| UN NUMBER:                 | 2630                        |
| CLASS:                     | 6.1                         |
| PACKING GROUP:             | Ι                           |
|                            |                             |

# SECTION 15. REGULATORY INFORMATION

| SARA 302 COMPONENTS   |  |  |
|---|--|--|
|   | CAS-NO.  | REVISION DATE                                      |
| Sodium selenite   | 10102-18-8   | 11/03/2008   |
| SARA 313 COMPONENTS   | THE FOLLOWING COMPON<br>REPORTING LEVELS ESTAI<br>SECTION 313: | IENTS ARE SUBJECT TO<br>BLISHED BY SARA TITLE III, |
|   | CAS-NO.  | REVISION DATE                                      |
| Sodium selenite   | 10102-18-8   | 11/03/2008   |
| SARA 311/312 HAZARDS  | 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.  | REVISION DATE                                      |
| Sodium selenite   | 10102-18-8   | 11/03/2008   |

# SECTION 16. OTHER INFORMATION

#### FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

| H300 + H330 | FATAL IF SWALLOWED OR IF INHALED.                |
|-------------|--|
| H315        | CAUSES SKIN IRRITATION.                          |
| H317        | MAY CAUSE AN ALLERGIC SKIN REACTION.             |
| H319        | CAUSES SERIOUS EYE IRRITATION.                   |
| H411        | TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. |

#### 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:

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