

# *Chem-Impex International Inc.*

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## SAFETY DATA SHEET

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### SECTION 1. CHEMICAL IDENTIFICATION

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|                                 |   |
|---------------------------------|---|
| CATALOG #:                      | 30795   |
| NAME:                           | Sodium bis(trimethylsilyl)amide                     |
| SYNONYMS:                       | Hexamethyldisilazane sodium 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

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#### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)

ACUTE TOXICITY, ORAL (CATEGORY 4), H302  
ACUTE TOXICITY, DERMAL (CATEGORY 4), H312  
SKIN CORROSION (CATEGORY 1B), H314  
SERIOUS EYE DAMAGE (CATEGORY 1), H318  
ACUTE TOXICITY, INHALATION (CATEGORY 4), H332  
LONG-TERM (CHRONIC) AQUATIC HAZARD (CATEGORY 3), H412

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)**

H302 + H312 + H332 HARMFUL IF SWALLOWED, IN CONTACT WITH SKIN OR IF INHALED.  
H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.  
H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

**PRECAUTIONARY STATEMENT(S)**

P260 DO NOT BREATHE DUSTS OR MISTS.  
P264 WASH SKIN THOROUGHLY AFTER HANDLING.  
P270 DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.  
P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.  
P273 AVOID RELEASE TO THE ENVIRONMENT.  
P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION.  
P301 + P312 + P330 IF SWALLOWED: CALL A POISON CENTER/ DOCTOR IF YOU FEEL UNWELL. RINSE MOUTH.  
P301 + P330 + P331 IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.  
P303 + P361 + P353 IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER.  
P304 + P340 + P310 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/ PHYSICIAN.  
P305 + P351 + P338 + P310 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A POISON CENTER/ DOCTOR.  
P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.  
P405 STORE LOCKED UP.  
P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT.

**HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS** REACTS VIOLENTLY WITH WATER.

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

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MF:  $C_6H_{18}NNaSi_2$   
MW: 183.38  
CAS-NO. 1070-89-9

PURITY:  $\geq 99\%$

**HAZARDOUS COMPONENTS**

| COMPONENT                              | CLASSIFICATION   | CONCENTRATION |
|--|--|---------------|
| <b>Sodium bis(trimethylsilyl)amide</b> |  |               |
|  | ACUTE TOX. 4; SKIN CORR. 1B; EYE DAM. 1; AQUATIC CHRONIC 3; H302, H332, H312, H314, H318, H412 | $\leq 100\%$  |

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

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**SECTION 4. FIRST-AID MEASURES**

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**DESCRIPTION OF FIRST AID MEASURES**

|   |  |
|---|--|
| <b>GENERAL ADVICE</b>   | FIRST AIDERS NEED TO PROTECT THEMSELVES. SHOW THIS MATERIAL SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.   |
| <b>IF INHALED</b>   | AFTER INHALATION: FRESH AIR. CALL IN PHYSICIAN.  |
| <b>IN CASE OF SKIN CONTACT</b>  | IN CASE OF SKIN CONTACT: TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/ SHOWER. CALL A PHYSICIAN IMMEDIATELY.                              |
| <b>IN CASE OF EYE CONTACT</b>   | AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF WATER. IMMEDIATELY CALL IN OPHTHALMOLOGIST. REMOVE CONTACT LENSES.   |
| <b>IF SWALLOWED</b>   | AFTER SWALLOWING: MAKE VICTIM DRINK WATER (TWO GLASSES AT MOST), AVOID VOMITING (RISK OF PERFORATION). CALL A PHYSICIAN IMMEDIATELY. DO NOT ATTEMPT TO NEUTRALISE. |
| <b>MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED</b>                | THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11.   |
| <b>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED</b> | NO DATA AVAILABLE  |

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**SECTION 5. FIRE AND EXPLOSION DATA**

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## **EXTINGUISHING MEDIA**

### **SUITABLE EXTINGUISHING MEDIA**

SUITABLE EXTINGUISHING MEDIA  
CARBON DIOXIDE (CO2) DRY POWDER

UNSUITABLE EXTINGUISHING MEDIA  
WATER FOAM

### **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

COMBUSTIBLE.  
MAY NOT GET IN TOUCH WITH: WATER  
DEVELOPMENT OF HAZARDOUS COMBUSTION GASES  
OR VAPOURS POSSIBLE IN THE EVENT OF FIRE.

### **ADVICE FOR FIREFIGHTERS**

STAY IN DANGER AREA ONLY WITH SELF-CONTAINED  
BREATHING APPARATUS. PREVENT SKIN CONTACT BY  
KEEPING A SAFE DISTANCE OR BY WEARING SUITABLE  
PROTECTIVE CLOTHING.

### **FURTHER INFORMATION**

SUPPRESS (KNOCK DOWN) GASES/VAPORS/MISTS WITH A  
WATER SPRAY JET. PREVENT FIRE  
EXTINGUISHING WATER FROM CONTAMINATING  
SURFACE WATER OR THE GROUND WATER SYSTEM.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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### **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

ADVICE FOR NON-EMERGENCY PERSONNEL: AVOID  
INHALATION OF DUSTS. AVOID SUBSTANCE CONTACT.  
ENSURE ADEQUATE VENTILATION. KEEP AWAY FROM  
HEAT AND SOURCES OF IGNITION. EVACUATE THE  
DANGER AREA, OBSERVE EMERGENCY PROCEDURES,  
CONSULT AN EXPERT.  
FOR PERSONAL PROTECTION SEE SECTION 8.

### **ENVIRONMENTAL PRECAUTIONS**

DO NOT LET PRODUCT ENTER DRAINS.

### **METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

COVER DRAINS. COLLECT, BIND, AND PUMP OFF SPILLS.  
OBSERVE POSSIBLE MATERIAL RESTRICTIONS  
(SEE SECTIONS 7 AND 10). TAKE UP DRY. DISPOSE OF  
PROPERLY. CLEAN UP AFFECTED AREA. AVOID  
GENERATION OF DUSTS.

### **REFERENCE TO OTHER SECTIONS**

FOR DISPOSAL SEE SECTION 13.

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## **SECTION 7. HANDLING AND STORAGE**

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### **PRECAUTIONS FOR SAFE HANDLING**

KEEP WORKPLACE DRY. DO NOT ALLOW PRODUCT TO  
COME INTO CONTACT WITH WATER.

IMMEDIATELY CHANGE CONTAMINATED CLOTHING.  
APPLY PREVENTIVE SKIN PROTECTION. WASH HANDS  
AND FACE AFTER WORKING WITH SUBSTANCE.  
FOR PRECAUTIONS SEE SECTION 2.2.

**CONDITIONS FOR SAFE  
STORAGE, INCLUDING  
ANY INCOMPATIBILITIES**

TIGHTLY CLOSED. DRY.  
NEVER ALLOW PRODUCT TO GET IN CONTACT WITH  
WATER DURING STORAGE.  
HANDLE AND STORE UNDER INERT GAS.

STORAGE CLASS  
STORAGE CLASS (TRGS 510): 8A: COMBUSTIBLE,  
CORROSIVE HAZARDOUS MATERIALS

Store at 0-8 °C

**SPECIFIC END USE(S)**

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

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

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**CONTROL PARAMETERS**

**COMPONENTS WITH WORKPLACE CONTROL PARAMETERS**

CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

**EXPOSURE CONTROLS**

**APPROPRIATE  
ENGINEERING  
CONTROLS**

IMMEDIATELY CHANGE CONTAMINATED CLOTHING. APPLY  
PREVENTIVE SKIN PROTECTION. WASH HANDS AND FACE  
AFTER WORKING WITH SUBSTANCE.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYE/FACE  
PROTECTION**

USE EQUIPMENT FOR EYE PROTECTION TESTED AND  
APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS  
SUCH AS NIOSH (US) OR EN 166(EU). TIGHTLY FITTING SAFETY  
GOGGLES

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

**BODY PROTECTION** PROTECTIVE CLOTHING.

**RESPIRATORY PROTECTION** REQUIRED WHEN DUSTS ARE GENERATED. OUR RECOMMENDATIONS ON FILTERING RESPIRATORY PROTECTION ARE BASED ON THE FOLLOWING STANDARDS: DIN EN 143, DIN 14387 AND OTHER ACCOMPANYING STANDARDS RELATING TO THE USED RESPIRATORY PROTECTION SYSTEM.

**CONTROL OF ENVIRONMENTAL EXPOSURE** DO NOT LET PRODUCT ENTER DRAINS.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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### **INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

|                              |                                |
|------------------------------|--------------------------------|
| APPEARANCE                   | White to yellow to beige solid |
| ODOUR                        | NO DATA AVAILABLE              |
| ODOUR THRESHOLD              | NO DATA AVAILABLE              |
| PH                           | NO DATA AVAILABLE              |
| MELTING POINT/FREEZING POINT | 171 - 180 °C                   |

|  |                   |
|--|-------------------|
| INITIAL BOILING POINT<br>AND BOILING RANGE         |                   |
| FLASH POINT  |                   |
| EVAPORATION RATE                                   | NO DATA AVAILABLE |
| FLAMMABILITY (SOLID,<br>GAS)                       | NO DATA AVAILABLE |
| UPPER/LOWER<br>FLAMMABILITY OR<br>EXPLOSIVE LIMITS | NO DATA AVAILABLE |
| VAPOUR PRESSURE                                    | NO DATA AVAILABLE |
| VAPOUR DENSITY                                     | NO DATA AVAILABLE |
| RELATIVE DENSITY                                   |                   |
| WATER SOLUBILITY                                   | NO DATA AVAILABLE |
| PARTITION COEFFICIENT:<br>N- OCTANOL/WATER         | NO DATA AVAILABLE |
| AUTO-IGNITION<br>TEMPERATURE                       | NO DATA AVAILABLE |
| DECOMPOSITION<br>TEMPERATURE                       | NO DATA AVAILABLE |
| VISCOSITY  | NO DATA AVAILABLE |
| EXPLOSIVE PROPERTIES                               | NO DATA AVAILABLE |
| OXIDIZING PROPERTIES                               | NO DATA AVAILABLE |

**OTHER SAFETY INFORMATION**

NO DATA AVAILABLE

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**SECTION 10. STABILITY AND REACTIVITY**

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|   |   |
|---|---|
| <b>REACTIVITY</b>                                 | THE FOLLOWING APPLIES IN GENERAL TO FLAMMABLE ORGANIC SUBSTANCES AND MIXTURES: IN CORRESPONDINGLY FINE DISTRIBUTION, WHEN WHIRLED UP A DUST EXPLOSION POTENTIAL MAY GENERALLY BE ASSUMED. |
| <b>CHEMICAL STABILITY</b>                         | SENSITIVE TO MOISTURE   |
| <b>POSSIBILITY OF<br/>HAZARDOUS<br/>REACTIONS</b> | NO DATA AVAILABLE   |
| <b>CONDITIONS TO AVOID</b>                        | DO NOT ALLOW WATER TO ENTER CONTAINER BECAUSE OF VIOLENT REACTION.<br>MOISTURE.   |
| <b>INCOMPATIBLE<br/>MATERIALS</b>                 | STRONG OXIDIZING AGENTS   |
| <b>HAZARDOUS<br/>DECOMPOSITION<br/>PRODUCTS</b>   | IN THE EVENT OF FIRE: SEE SECTION 5   |

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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**INFORMATION ON TOXICOLOGICAL EFFECTS**

|   |   |
|---|---|
| <b>ACUTE TOXICITY</b>   | ORAL: NO DATA AVAILABLE<br><br>LC50 INHALATION - RAT - MALE AND FEMALE - 4 H - 10.3<br>MG/L - VAPOR<br>REMARKS: (ECHA)<br><br>LD50 DERMAL - RABBIT - MALE AND FEMALE - 1,350<br>MG/KG<br>REMARKS: (ECHA)<br><br>NO DATA AVAILABLE |
| <b>SKIN<br/>CORROSION/IRRITATION</b>                            | SKIN - IN VITRO MEMBRANE BARRIER<br>RESULT: CAUSES BURNS.<br>(OECD TEST GUIDELINE 435)<br>REMARKS: CAUSES SKIN BURNS.   |
| <b>SERIOUS EYE<br/>DAMAGE/EYE IRRITATION</b>                    | CAUSES SERIOUS EYE DAMAGE.  |
| <b>RESPIRATORY OR SKIN<br/>SENSITISATION</b>                    | NO DATA AVAILABLE   |
| <b>GERM CELL<br/>MUTAGENICITY</b>                               | TEST TYPE: AMES TEST<br>TEST SYSTEM: ESCHERICHIA COLI/SALMONELLA<br>TYPHIMURIUM<br>METABOLIC ACTIVATION: WITH AND WITHOUT<br>METABOLIC ACTIVATION<br>METHOD: OECD TEST GUIDELINE 471<br>RESULT: NEGATIVE                          |
| <b>CARCINOGENICITY</b>  |   |
| 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.  |
| 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<br>OF REGULATED CARCINOGENS.  |
| <b>REPRODUCTIVE TOXICITY</b>                                    | NO DATA AVAILABLE   |
| <b>SPECIFIC TARGET ORGAN<br/>TOXICITY - SINGLE<br/>EXPOSURE</b> | NO DATA AVAILABLE   |



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

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## **SECTION 12. ECOLOGICAL INFORMATION**

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

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

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### **WASTE TREATMENT METHODS**

|                               |   |
|-------------------------------|---|
| <b>PRODUCT</b>                | WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH THE NATIONAL AND LOCAL REGULATIONS. LEAVE CHEMICALS IN ORIGINAL CONTAINERS. NO MIXING WITH OTHER WASTE. |
| <b>CONTAMINATED PACKAGING</b> | DISPOSE OF AS UNUSED PRODUCT.   |

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**SECTION 14. TRANSPORT INFORMATION**

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**DOT (US)**

PROPER SHIPPING NAME: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (Sodium bis(trimethylsilyl)amide)  
UN NUMBER: 3263  
CLASS: 8  
PACKING GROUP: II  
REPORTABLE QUANTITY (RQ):  
POISON INHALATION HAZARD: NO

**IMDG**

PROPER SHIPPING NAME: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (Sodium bis(trimethylsilyl)amide)  
UN NUMBER: 3263  
CLASS: 8  
PACKING GROUP: II  
EMS-NO: F-A, S-B

**IATA**

PROPER SHIPPING NAME: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (Sodium bis(trimethylsilyl)amide)  
UN NUMBER: 3263  
CLASS: 8  
PACKING GROUP: II

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**SECTION 15. REGULATORY INFORMATION**

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**SARA 302 COMPONENTS** THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A SECTION 302 EHS TPQ.

**SARA 313 COMPONENTS** THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

**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 bis(trimethylsilyl)amide | 1070-89-9 |               |

**NEW JERSEY RIGHT TO KNOW COMPONENTS**

|                                 | CAS-NO.   | REVISION DATE |
|---------------------------------|-----------|---------------|
| Sodium bis(trimethylsilyl)amide | 1070-89-9 |               |

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**SECTION 16. OTHER INFORMATION**

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

|                    |   |
|--------------------|---|
| H302 + H312 + H332 | HARMFUL IF SWALLOWED, IN CONTACT WITH SKIN OR IF INHALED. |
| H314               | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.                  |
| H412               | HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.        |

**MSDS LEGEND**

|        |  |
|--------|--|
| MW:    | MOLECULAR WEIGHT   |
| MF:    | MOLECULAR FORMULA  |
| VOC:   | VOLATILE ORGANIC COMPOUNDS                               |
| ACGIH: | AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGINISTS |
| CAS:   | CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER                |
| OSHA:  | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION            |
| PEL:   | PERMISSIBLE EXPOSURE LIMIT (OSHA)                        |
| TLV:   | THRESHOLD LIMIT VALUE (ACGIH)                            |

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