

# *Chem-Impex International Inc.*

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## SAFETY DATA SHEET

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### SECTION 1. CHEMICAL IDENTIFICATION

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|                                 |   |
|---------------------------------|---|
| CATALOG #:                      | 01234   |
| NAME:                           | Hexamethylenetetramine                              |
| SYNONYMS:                       | Hexamine<br>Urotropine                              |
| 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)**  
FLAMMABLE SOLIDS (CATEGORY 2), H228  
SKIN SENSITISATION (CATEGORY 1), H317

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

**GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS  
PICTOGRAM**



SIGNAL WORD                      WARNING

**HAZARD STATEMENT(S)**

H228                      FLAMMABLE SOLID.  
H317                      MAY CAUSE AN ALLERGIC SKIN REACTION.

**PRECAUTIONARY STATEMENT(S)**

P210                      KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.  
P240                      GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT.  
P241                      USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/ LIGHTING/ EQUIPMENT.  
P261                      AVOID BREATHING DUST/ FUME/ GAS/ MIST/ VAPOURS/ SPRAY.  
P272                      CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE.  
P280                      WEAR PROTECTIVE GLOVES/ EYE PROTECTION/ FACE PROTECTION.  
P302 + P352              IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.  
P333 + P313              IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ ATTENTION.  
P363                      WASH CONTAMINATED CLOTHING BEFORE REUSE.  
P370 + P378              IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL-RESISTANT FOAM FOR EXTINCTION.  
P501                      DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT.

**HAZARDS NOT  
OTHERWISE  
CLASSIFIED (HNOC)  
OR NOT COVERED  
BY GHS**                      NONE

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

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MF:                      C<sub>6</sub>H<sub>12</sub>N<sub>4</sub>

MW:                      140.2

CAS-NO.                100-97-0

PURITY:                99 - 100%

**HEXAMETHYLENETETRAMINE**

**HAZARDOUS COMPONENTS**

| COMPONENT | CLASSIFICATION | CONCENTRATION |
|-----------|----------------|---------------|
|-----------|----------------|---------------|

|                               |   |          |
|-------------------------------|---|----------|
| <b>HEXAMETHYLENETETRAMINE</b> |   |          |
|                               | FLAM. SOL. 2; SKIN SENS. 1;<br>H228, H317 | <= 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>   | CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT OF DANGEROUS AREA.                    |
| <b>IF INHALED</b>   | IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.             |
| <b>IN CASE OF SKIN CONTACT</b>  | WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.  |
| <b>IN CASE OF EYE CONTACT</b>   | FLUSH EYES WITH WATER AS A PRECAUTION.  |
| <b>IF SWALLOWED</b>   | DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN. |
| <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**

|                                     |  |
|-------------------------------------|--|
| <b>SUITABLE EXTINGUISHING MEDIA</b> | USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE. |
|-------------------------------------|--|

|  |   |
|--|---|
| <b>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE</b> | CARBON OXIDES, NITROGEN OXIDES (NOX), HYDROGEN CYANIDE (HYDROCYANIC ACID) |
| <b>ADVICE FOR FIREFIGHTERS</b>                               | WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY.    |
| <b>FURTHER INFORMATION</b>                                   | USE WATER SPRAY TO COOL UNOPENED CONTAINERS.                              |

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

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

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

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|                                      |   |
|--------------------------------------|---|
| <b>PRECAUTIONS FOR SAFE HANDLING</b> | AVOID CONTACT WITH SKIN AND EYES. AVOID 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.KEEP AWAY FROM |
|--------------------------------------|---|

SOURCES OF IGNITION - NO SMOKING.TAKE MEASURES TO PREVENT THE BUILD UP OF ELECTROSTATIC CHARGE.  
FOR PRECAUTIONS SEE SECTION 2.2.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES** KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.  
HYGROSCOPIC  
STORAGE CLASS (TRGS 510): FLAMMABLE SOLID  
HAZARDOUS MATERIALS

**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** HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

### **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 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 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.

**BODY PROTECTION**

COMPLETE SUIT PROTECTING AGAINST CHEMICALS, FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING., THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

**RESPIRATORY PROTECTION**

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE PARTICLE RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN 143) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).

**CONTROL OF ENVIRONMENTAL EXPOSURE**

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. 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 granular powder  |
| ODOUR  | NO DATA AVAILABLE  |
| ODOUR THRESHOLD                              | NO DATA AVAILABLE  |
| PH   | NO DATA AVAILABLE  |
| MELTING POINT/FREEZING POINT                 | 280 °C (Lit.)  |
| INITIAL BOILING POINT AND BOILING RANGE      |  |
| FLASH POINT                                  | 250 °C   |
| EVAPORATION RATE                             | NO DATA AVAILABLE  |
| FLAMMABILITY (SOLID, GAS)                    | THE SUBSTANCE OR MIXTURE IS A FLAMMABLE SOLID WITH THE CATEGORY 2. |
| UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS | NO DATA AVAILABLE  |
| VAPOUR PRESSURE                              | < 0.01 HPA (< 0.01 MMHG) AT 20 °C                                  |
| VAPOUR DENSITY                               | NO DATA AVAILABLE  |
| RELATIVE DENSITY                             |  |
| WATER SOLUBILITY                             | SOLUBLE  |
| PARTITION COEFFICIENT: N- OCTANOL/WATER      | NO DATA AVAILABLE  |
| AUTO-IGNITION TEMPERATURE                    | NO DATA AVAILABLE  |
| DECOMPOSITION TEMPERATURE                    | NO DATA AVAILABLE  |
| VISCOSITY                                    | NO DATA AVAILABLE  |
| EXPLOSIVE PROPERTIES                         | NO DATA AVAILABLE  |
| OXIDIZING PROPERTIES                         | NO DATA AVAILABLE  |
| <b>OTHER SAFETY INFORMATION</b>              | NO DATA AVAILABLE  |

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**SECTION 10. STABILITY AND REACTIVITY**

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

|   |   |
|---|---|
| <b>CONDITIONS TO AVOID</b>              | EXPOSURE TO MOISTURE.<br>HEAT, FLAMES AND SPARKS.                                       |
| <b>INCOMPATIBLE MATERIALS</b>           | STRONG ACIDS, ACIDS, STRONG OXIDIZING AGENTS  |
| <b>HAZARDOUS DECOMPOSITION PRODUCTS</b> | OTHER DECOMPOSITION PRODUCTS - NO DATA AVAILABLE<br>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>                    | LD50 ORAL - RAT - > 20,000 MG/KG<br>INHALATION: NO DATA AVAILABLE<br>DERMAL: NO DATA AVAILABLE  |
| <b>SKIN CORROSION/IRRITATION</b>         | NO DATA AVAILABLE   |
| <b>SERIOUS EYE DAMAGE/EYE IRRITATION</b> | NO DATA AVAILABLE   |
| <b>RESPIRATORY OR SKIN SENSITISATION</b> | MAXIMISATION TEST (GPMT) - GUINEA PIG<br>MAY CAUSE ALLERGIC SKIN REACTION.  |
| <b>GERM CELL MUTAGENICITY</b>            | LABORATORY EXPERIMENTS HAVE SHOWN<br>MUTAGENIC EFFECTS.   |
| <b>CARCINOGENICITY</b>                   |   |
| IARC:                                    | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC. |
| ACGIH:                                   | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.            |
| NTP:                                     | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.                 |
| OSHA:                                    | NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.             |
| <b>REPRODUCTIVE TOXICITY</b>             | NO DATA AVAILABLE   |



|   |   |
|---|---|
| <b>SPECIFIC TARGET ORGAN TOXICITY - SINGLE 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: MN4725000<br>TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.<br>LIVER - IRREGULARITIES - BASED ON HUMAN EVIDENCE |

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## **SECTION 12. ECOLOGICAL INFORMATION**

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|   |  |
|---|--|
| <b>TOXICITY</b>                                     |  |
| TOXICITY TO FISH                                    | LC50 - PIMEPHALES PROMELAS (FATHEAD MINNOW)<br>- 49,800 MG/L - 96 H                        |
| TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES | EC50 - DAPHNIA MAGNA (WATER FLEA) - 36,000 MG/L<br>- 48 H                                  |
| <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>                | 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. |
| <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: HEXAMETHYLENETETRAMINE  
UN NUMBER: 1328  
CLASS: 4.1  
PACKING GROUP: III  
REPORTABLE QUANTITY (RQ):  
POISON INHALATION HAZARD: NO

**IMDG**  
PROPER SHIPPING NAME: HEXAMETHYLENETETRAMINE  
UN NUMBER: 1328  
CLASS: 4.1  
PACKING GROUP: III  
EMS-NO: F-A, S-G

**IATA**  
PROPER SHIPPING NAME: HEXAMETHYLENETETRAMINE  
UN NUMBER: 1328  
CLASS: 4.1  
PACKING GROUP: III

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**SECTION 15. REGULATORY INFORMATION**

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**SARA 302 COMPONENTS** NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.

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

**SARA 311/312 HAZARDS** FIRE HAZARD, CHRONIC 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 |
|------------------------|----------|---------------|
| Hexamethylenetetramine | 100-97-0 | 3/1/2007      |

**NEW JERSEY RIGHT TO KNOW COMPONENTS**

|                        | CAS-NO.  | REVISION DATE |
|------------------------|----------|---------------|
| Hexamethylenetetramine | 100-97-0 | 3/1/2007      |

**CALIFORNIA PROP. 65 COMPONENTS** THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE HARM.

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**SECTION 16. OTHER INFORMATION**

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

|            |                                      |
|------------|--------------------------------------|
| FLAM. SOL. | FLAMMABLE SOLIDS                     |
| H228       | FLAMMABLE SOLID.                     |
| H317       | MAY CAUSE AN ALLERGIC SKIN REACTION. |
| SKIN SENS. | SKIN SENSITISATION                   |

**HMIS RATING**

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

**NFPA RATING**

|                    |   |
|--------------------|---|
| HEALTH HAZARD:     | 0 |
| FIRE HAZARD:       | 1 |
| REACTIVITY HAZARD: | 2 |

**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)                            |
| IMPORTANT: |  |

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