1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: X-1 CATALYST
PRODUCT CODE: X-1 CATALYST

MANUFACTURER: IGS, INC.
200 Country Club Rd.
Meadow Lands, PA 15347

SERVICE NUMBER: 1-724-222-5800

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: Contact may cause eye irritation.
SKIN: May cause skin irritation.
INGESTION: Do not induce vomiting, seek medical attention.
INHALATION: Remove to fresh air. Vapors may irritate mucous membranes. Seek medical attention if breathing becomes irregular or person becomes unconscious.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

MUTAGENICITY: Possible mutagenic for bacteria and/or yeast.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamine</td>
<td>20-40%</td>
<td>100-97-0</td>
<td>202-905-8</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Seek medical attention.
SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.
INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.
INHALATION: Move to fresh air. Seek medical attention if breathing becomes irregular or becomes unconscious.

5. FIRE FIGHTING MEASURES

FLAMMABLE LIMITS: Not Flammable, water based solution.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Mop up area and dispose of in accordance with local, state, and federal regulations.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: (40°F) Minimum to (100°F) Maximum

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses.
SKIN: Protective gloves such as latex, nitrile, or any other chemically resistant material to prevent
9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Slight Amine odor.
APPEARANCE: Liquid.
COLOR: Blue.
BOILING POINT: > (212°F)
SOLUBILITY IN WATER: Soluble
EVAPORATION RATE: ~ 1 Water = 1

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: Will release formeldahyde when exposed to strong acids.
INCOMPATIBLE MATERIALS: Strong acids/oxidizers.

11. TOXICOLOGICAL INFORMATION

GENERAL COMMENTS: No LD50/LC50 information established relating to normal routes of occupational exposure.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Established

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance to local sanitary regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
PRIMARY HAZARD CLASS/DIVISION: Not classified as hazardous.
OTHER SHIPPING INFORMATION: Not classified as a hazardous compound. Material is able to be air freighted without restriction.

VESSEL (IMO/IMDG)
PRIMARY HAZARD CLASS/DIVISION: Not classified as hazardous.
NOTE: This product is not classified as hazardous. It can be shipped by air freight, vessel, or any other means.

CANADA TRANSPORT OF DANGEROUS GOODS
PRIMARY HAZARD CLASS/DIVISION: Not classified as hazardous.
TDG NOTE: Not classified as a hazardous material. Product is able to be air, rail, or truck freighted.

15. REGULATORY INFORMATION

UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
TITLE III NOTES: Not listed for annual reporting.
TSCA (TOXIC SUBSTANCE CONTROL ACT)
MATERIAL SAFETY DATA SHEET

Date Issued: 07/27/2012
MSDS No: X-1 CATALYST

Chemical Name | CAS
--- | ---
Hexamine | 100-97-0

TSCA REGULATORY: All ingredients are listed on the TSCA Inventory of chemical Substances.

CALIFORNIA PROPOSITION 65: Not listed.

CANADA
WHMIS CLASS: D-2B

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS RATING</th>
<th>NFPA CODES</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH:</td>
<td>0</td>
</tr>
<tr>
<td>FLAMMABILITY:</td>
<td>2</td>
</tr>
<tr>
<td>PHYSICAL HAZARD:</td>
<td>0</td>
</tr>
<tr>
<td>PERSONAL PROTECTION:</td>
<td>B</td>
</tr>
</tbody>
</table>

NFPA STORAGE CLASSIFICATION: Not classified as a hazardous or regulated material.

HMIS RATINGS NOTES:

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HAZARD INDEX

4 = SEVERE HAZARD
3 = SERIOUS HAZARD
2 = MODERATE HAZARD
1 = SLIGHT HAZARD
0 = MINIMAL HAZARD

PERSONAL PROTECTION INDEX

A

B

C

D

E

F

G

H

I

J

K

X

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