Material Safety Data Sheet
Diexter-G 1100-225

1. Product and company identification

- **Common name**: Diexter-G 1100-225
- **Main component CAS**: 9010-89-3
- **Material uses**: Saturated polyester resin.
- **Supplier/Manufacturer**: COIM USA
  286 Mantua Grove Road
  West Deptford (Paulsboro)
  N.J. 08066

In case of emergency:
- **Supplier/Manufacturer**: CANUTEC (613) 996-6666
- **Chemtrec, U.S.**: (800) 424-9300 International: (703) 527-3887

2. Hazards identification

- **Physical state**: Liquid. [Clear.]
- **Hazard status**: This material is classified as hazardous under OSHA regulations.
- **Emergency overview**: CAUTION!
  CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
  Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist.
  Contains material that can cause target organ damage.

- **Potential acute health effects**
  - **Eyes**: No known significant effects or critical hazards.
  - **Skin**: No known significant effects or critical hazards.
  - **Inhalation**: No known significant effects or critical hazards.
  - **Ingestion**: No known significant effects or critical hazards.

- **Potential chronic health effects**
  - **Carcinogenic effects**: Classified None. by NIOSH [Diethylene Glycol].
  - **Mutagenic effects**: Not available.
  - **Teratogenic effects**: Not available.

- **Medical conditions aggravated by over-exposure**: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>United States</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Glycol</td>
<td>111-46-6</td>
<td>&lt;20</td>
</tr>
</tbody>
</table>

4. First aid measures

- **Eye contact**: Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- **Skin contact**: Wash with soap and water. Get medical attention if symptoms occur.
- **Inhalation**: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- **Ingestion**: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- **Notes to physician**: No specific antidote. Medical staff must contact Poison Control Center.

Date of issue: 09/07/2007
5. Fire-fighting measures

Flammability of the product: May be combustible at high temperature.

Products of combustion: Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Extinguishing media

Suitable: Use an extinguishing agent suitable for the surrounding fire.

Not suitable: None known.

Special exposure hazards: In a fire or if heated, a pressure increase will occur and the container may burst.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Date of issue: 09/07/2007
8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Product name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Glycol</td>
<td>AIHA WEEL (United States, 1/2006).</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 mg/m³ 8 hour(s).</td>
</tr>
</tbody>
</table>

**United States**

**Engineering measures**: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Eyes**: Safety glasses.

**Skin**: Lab coat.

**Respiratory**: A respirator is not needed under normal and intended conditions of use.

**Hands**: Natural rubber (latex).

**HMIS Code/Personal protective equipment**: B

**Personal protection in case of a large spill**: Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

9. Physical and chemical properties

**Physical state**: Liquid. [Clear.]

**Flash point**: Closed cup: >250°C (>482°F) [Pensky-Martens.]

**Relative density**: 1.12

**Viscosity**: Dynamic: 500 cPs (@25°C)

**Solubility**: Insoluble in the following materials: cold water and hot water.

10. Stability and reactivity

**Stability and reactivity**: The product is stable.

**Incompatibility with various substances**: Reactive or incompatible with the following materials: oxidizing materials.

**Hazardous decomposition products**: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Hazardous polymerization**: Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions of reactivity**: Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. Non-flammable in the presence of the following materials or conditions: heat.
11. Toxicological information

Toxicity data

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test / Route</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Glycol</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>11890 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Intraperitoneal</td>
<td>Rat</td>
<td>7700 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Intravenous</td>
<td>Rat</td>
<td>6565 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12565 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Subcutaneous</td>
<td>Rat</td>
<td>18800 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Unreported</td>
<td>Rat</td>
<td>15650 mg/kg</td>
</tr>
</tbody>
</table>

Acute Effects

Eyes : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Potential chronic health effects

CARCINOGENIC EFFECTS: Classified None. by NIOSH [Diethylene Glycol].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Target organs : Contains material which causes damage to the following organs: kidneys, liver, skin, eye, lens or cornea.

12. Ecological information

Ecotoxicity data

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Species</th>
<th>Test</th>
<th>Exposure</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene Glycol</td>
<td>Fish</td>
<td>Mortality</td>
<td>96 hours</td>
<td>Acute LC50 75200 mg/L</td>
</tr>
</tbody>
</table>

Environmental precautions : No known significant effects or critical hazards.
Products of degradation : Not applicable.

13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

NAERG : Not applicable.
Regulatory information

UN/IMDG/IATA/DOT : Not regulated.
15. Regulatory information

United States

HCS Classification: Target organ effects

U.S. Federal regulations:
- United States inventory (TSCA 8b): All components are listed or exempted.
  - SARA 302/304/311/312 extremely hazardous substances: No products were found.
  - SARA 302/304 emergency planning and notification: No products were found.
  - SARA 302/304/311/312 hazardous chemicals: 2,2’-oxybisethanol
  - SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
    Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

United States inventory (TSCA 8b):

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: 2,2’-oxybisethanol
SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
Immediate (acute) health hazard, Delayed (chronic) health hazard

State regulations:
- Connecticut Carcinogen Reporting: None of the components are listed.
- Connecticut Hazardous Material Survey: None of the components are listed.
- Florida substances: None of the components are listed.
- Illinois Chemical Safety Act: None of the components are listed.
- Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.
- Louisiana Reporting: None of the components are listed.
- Louisiana Spill: None of the components are listed.
- Massachusetts Spill: None of the components are listed.
- Massachusetts Substances: None of the components are listed.
- Michigan Critical Material: None of the components are listed.
- Minnesota Hazardous Substances: None of the components are listed.
- New Jersey Hazardous Substances: None of the components are listed.
- New Jersey Spill: None of the components are listed.
- New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
- New York Acutely Hazardous Substances: None of the components are listed.
- New York Toxic Chemical Release Reporting: None of the components are listed.
- Pennsylvania RTK Hazardous Substances: The following components are listed:
  Diethylene Glycol
- Rhode Island Hazardous Substances: None of the components are listed.
- California prop. 65: No products were found.

International lists:
- This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, Australia (AICS), on Canada (DSL), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16. Other information

Label requirements (U.S.A.): CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Hazardous Material Information System (U.S.A.):

HMIS RATING

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire hazard</th>
<th>Physical Hazard</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

HAZARD RATINGS

4- Extreme
3- Serious
2- Moderate
1- Slight
0- Minimal
See section 8 for more detailed information on personal protection.
Diexter-G 1100-225

Reference Data

References

- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG.

Date of issue: 09/07/2007

Version: 1

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.