# Material Safety Data Sheet

May be used comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements

# U.S.Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

| **IDENTITY** *(As Used on Label and List)*<br>RESIST REMOVER RR41 | *Note:* Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that. |
|---|---|
| **Section I** | |
| Manufacturer's Name<br>Futurrex, Inc. | Emergency Telephone Number<br>800-535-5053 |
| Address *( Number, Street, City, State and ZIP Code )*<br>24 Munsonhurst Road | Telephone Number for Information<br>888-999-4188 |
| Franklin , New Jersey 07416 | Date Prepared<br>1/2/2011 |
| | Signature of Prepare (*optional*) |

**Section II - Hazardous Ingredients/Identity Information**

| Hazardous Components (Specific Chemical Identity: Common Name(s)) | OSHA PEL | ACGIH TLV | CAS Number | % (*optional*) |
|---|---|---|---|---|
| Dimethyl Sulfoxide | None | None | 67-68-5 | |
| Proprietary Ingredient | | | | |

*All Components of the product are registered in the Chemical Substance Inventory according with the Toxic Substance Control Act.

**Section III - Physical/Chemical Characteristics.**

| | | | |
|---|---|---|---|
| Boiling Point (°C) | 189 | Specific Gravity (H2O=1) | >1 |
| Vapor Pressure (mm Hg) (20°C) | 0.46 | Melting Point (°C) | 18.3 |
| Vapor Density (AIR-1) | 2.7 | Evaporatiion Rate (Butyl Acetate=1) | <1 |

Solubility in Water
Unlimited

Appearance and Odor
Clear liquid. Slight odor.

**Section IV- Fire and Explosion Hazard Data**

| Flash Point ( Method Used ) | Flammable Limits. | LEL | UEL |
|---|---|---|---|
| 89 C, Tag Closed Cup | % volume in air | 3.0-3.5 | 42-63 |

Extinguishing Media.
Foam, carbon dioxide, dry powder, water spray.

Special Fire Fighting Procedures .
Wear a self contained breathing apparatus.

Unusual Fire and Explosion Hazard.
Burning dimethyl sulfoxide produces poisonous gases (sulfur oxides).

**Section V - Reactivity Data**

| Stability | | | |
|---|---|---|---|
| | Unstable | | Conditions to Avoid |
| | | | Prolonged heating above 150°C |
| | Stable | X | |

Incompatibility (Materials *to Avoid*)

Organic and inorganic acid chlorides, strong oxidizing agents, alkali metals.

Hazardous Decomposition or Byproducts

Sulfur dioxide, formaldehyde, methyl mercaptan, dimethyl sulfide.

| Hazardous Polymerization | | | |
|---|---|---|---|
| | May Occur | | Conditons to Avoid<br>N.A. |
| | Will Not Occur | X | |

**Section VI - Health Hazard Data**

| Route(s) of Entry: | Inhalation? | Skin? | Ingestion? |
|---|---|---|---|
| | Yes | Yes | Yes |

Health Hazards (*Acute and Chronic*)

Inhalation: High vapor concentration may cause headache, dizziness. Skin: DMSO may penetrate the skin under certain conditions.

Ingestion: <4.5 G/kG (rat)

| Carcinogenicity: | NTP? | IARC Monographs? | OSHA Regulated? |
|---|---|---|---|
| | No | No | No |

Signs and Symptoms of exposure

Inhalation: may cause dizziness. Eyes and skin: may cause irritation.

Medical Conditions Generally Aggrevated by Exposure

Not investigated.

Emergency and First Aid Procedures

Inhalation: remove victim to fresh air. Skin contact: wash with soap and water. Ingestion: Do not induce vomiting. Get medical attention.

**Section VII - Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled

Dilute and flush to wastewater treatment or absorb with inert material. Do not allow the material to enter streams or waterways.

Waste Disposal Method

Place in a disposal facility approved under RCRA regulation for hazardous waste.

Precautions to Be Taken in Handling and Storing

Keep away from heat, sparks and open flames. Keep containers tightly closed. Store away from strong oxidizing agents in a cool and dry place.

Other Precautions

None.

**Section VIII - Control Measures**

Respiratory Protection (*Specify Type*)

Do not breathe vapor or mist.

| Ventilation | | |
|---|---|---|
| | Local Exhaust<br>Good ventilation should be used. | Special<br>Use with exhaust equipment with discharge to outdoors. |
| | Mechanical (*General*)<br>Explosion-proof ventilation equipment. | Other<br>No smoking or open flames. |

| Protective Gloves | Eye Protection |
|---|---|
| Chemically resistant gloves. | Chemical splash goggles or face shield. |

Other Protective Clothing or Equipment

Usually not needed

Work/Hygenic Practices

Follow regulations appropriate for handling flammable chemicals.

**Sextion IX - Transport Information**

Non-hazardous. Liquid. Keep in upright position as indicated by arrows.