2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Skin sensitization Category 1

2.2. Label elements
Signal word WARNING
Hazard statements May cause an allergic skin reaction.

Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

Precautionary Statements - Response
Specific treatment (see .? on this label)
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Dispose of contents/container to an approved waste disposal plant.

2.3. Hazards not otherwise classified (HNOC)
Not applicable.
2.4. Other information
6.12% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N''-(Methylenedi-4,1-phenylene)bis(N'-cyclohexylurea)</td>
<td>58890-25-8</td>
<td>2.5-5</td>
</tr>
<tr>
<td>Long chain alkenyl amide borate</td>
<td>UNKNOWN</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>

The exact percentage (concentration) of composition has been withheld as a trade secret.

Ingredient comments
This product is a polyurea grease based on mineral oil with additives. The mineral oils in the product contain <3% DMSO-extract (IP 346).

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation
Move to fresh air in case of accidental inhalation of vapors or decomposition products.

Skin contact
Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion
Do not induce vomiting without medical advice. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms
MAY CAUSE ALLERGIC SKIN REACTION.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media
Use CO2, dry chemical, or foam.

Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Not flammable. Fire may produce irritating and/or toxic gases.

Hazardous combustion products
Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Extremely slippery when spilled. Avoid contact with eyes and skin. Avoid breathing vapors or mists. Use personal protection recommended in Section 8.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions
Do not allow into any sewer, on the ground or into any body of water. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Use personal protective equipment as required. Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling
Extremely slippery when spilled. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or mists.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Keep at a temperature not exceeding 45°C.

Incompatible materials
None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure guidelines

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td></td>
<td></td>
<td>TWA: 10 mg/m³ total dust</td>
</tr>
<tr>
<td>Xylene</td>
<td>STEL: 150 ppm TWA: 100 ppm</td>
<td>TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³</td>
<td>TWA: 3 ppm TWA: 15 mg/m³</td>
</tr>
<tr>
<td>Diethanolamine</td>
<td>TWA: 1 mg/m³ inhalable fraction and vapor</td>
<td>STEL: 655 mg/m³</td>
<td>TWA: 3 ppm TWA: 15 mg/m³</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>TWA: 20 ppm</td>
<td>TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³</td>
<td>IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL: 545 mg/m³</td>
</tr>
<tr>
<td>Diphenylamine</td>
<td>TWA: 10 mg/m³ (vacated) TWA: 10 mg/m³</td>
<td>TWA: 10 mg/m³ (vacated) TWA: 10 mg/m³</td>
<td>TWA: 10 mg/m³</td>
</tr>
</tbody>
</table>

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
8.2. Exposure controls

Engineering controls
- Eyewash stations
- Ventilation systems

8.3. Individual protection measures, such as personal protective equipment

Hand protection
Wear protective nitrile rubber gloves. Thickness ≥ 0.38 mm - breakthrough time >480 minutes. Thickness 0.1 mm - splash protection.

Eye/face Protection
No special technical protective measures are necessary.

Skin and body protection
Suitable protective clothing.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Smooth</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Physical state</td>
<td>Semi-solid</td>
<td>No information available</td>
</tr>
<tr>
<td>Color</td>
<td>blue</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
<td>Based on base oils</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 150 °C / &gt; 302 °F</td>
<td>Based on base oils</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability limits in air</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td></td>
<td>No information available</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td></td>
<td>No information available</td>
</tr>
</tbody>
</table>
Other information

Density < 1000 kg/m³ @ 25 °C / 77 °F

10. STABILITY AND REACTIVITY

10.1. Reactivity
Stable.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid
Heat.

10.5. Incompatible materials
Strong oxidizing agents.

10.6. Hazardous decomposition products
None under normal processing.

11. TOXICOLOGICAL INFORMATION

11.1. Information on likely routes of exposure

Inhalation Inhalation of oil mist may cause irritation, headaches, nausea and breathing difficulties.
Ingestion Malaise (vague feeling of discomfort).
Skin contact May be harmful in contact with skin.
Eye contact May cause slight irritation.

11.2. Information on toxicological effects

Symptoms No information available.

11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Not hazardous based on component data.
Serious eye damage/eye irritation Not hazardous based on component data.
Sensitization May cause sensitization by skin contact.
Germ cell mutagenicity Not hazardous based on component data.
Carcinogenicity Not hazardous based on component data.
Reproductive toxicity Not hazardous based on component data.
STOT-single exposure Not hazardous based on component data.
STOT-repeated exposure Not hazardous based on component data.
Aspiration hazard Not hazardous based on component data.

11.4. Numerical measures of toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>LC50 (lethal concentration)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Acute toxicity

6.12% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

<table>
<thead>
<tr>
<th>ATEmix (oral)</th>
<th>ATEmix (dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5142 mg/kg</td>
<td>5503 mg/kg</td>
</tr>
</tbody>
</table>

**12. ECOLOGICAL INFORMATION**

**12.1. Ecotoxicity**
Not regarded as dangerous for the environment. Occasional major emissions or frequently recurring minor emissions may have a harmful or disturbing effect.

**12.2. Persistence and degradability**
Not readily biodegradable.

**12.3. Bioaccumulative potential**
Material does not bioaccumulate.

**12.4. Mobility in soil**
After release, adsorbs onto soil.

**12.5. Results of PBT and vPvB assessment**
No information available

**12.6. Other adverse effects**
No information available

**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Disposal of wastes**
Dispose of in accordance with federal, state and local regulations. Use personal protection recommended in Section 8.

**Contaminated packaging**
Dispose of in accordance with federal, state and local regulations.

**US EPA waste number**
No information available

**Other information**
Waste codes should be assigned by the user based on the application for which the product was used

**14. TRANSPORT INFORMATION**

**14.1. UN number**
Not regulated

**14.2. UN proper shipping name**
Not regulated

**14.3. Transport hazard class(es)**
Not regulated
14.4. Packing group
Not applicable

14.5. Environmental hazards
None

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available

14.7. Special precautions for user
None

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>-</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>-</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>-</td>
</tr>
<tr>
<td>ENCS</td>
<td>-</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>-</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>-</td>
</tr>
<tr>
<td>NZIoC</td>
<td>-</td>
</tr>
</tbody>
</table>

Legend:
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances
- NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations
California Proposition 65

This product contains the following Proposition 65 chemicals:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine - 111-42-2</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Ethylbenzene - 100-41-4</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1330-20-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethanolamine</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>111-42-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>100-41-4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Di phenyl amine</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>122-39-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label Information

EPA Pesticide Registration Number: Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

HMIS: Health hazards 1  Flammability 1  Physical hazards 0  Personal protection p

NFPA: Health hazards 1  Flammability 1  Instability 0  Special Hazard -

Revision date: 13-Nov-2015
Revision note: SDS sections updated, 1, 2, 11, 15

Disclaimer:
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Material Safety Data Sheet