1. Product and Company Identification

Use: Product for construction chemicals

Company
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

2. Hazards Identification

Emergency overview

DANGER:
HARMFUL IF SWALLOWED.
MAY BE HARMFUL IF INHALED.
MAY CAUSE BURNS.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE ALLERGIC RESPIRATORY REACTION.
CONTAINS MATERIAL WHICH MAY CAUSE CANCER.
May cause sensitization by skin contact.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.
Keep container tightly closed.

State of matter: liquid
Odour: product specific

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:
The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion:
The product has not been tested. The statement has been derived from the properties of the individual components.

Sensitization:
Potential environmental effects

Aquatic toxicity:
The product has not been tested.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>14807-96-6</td>
<td>&gt;= 15.0 - &lt;= 40.0 %</td>
<td>talc</td>
</tr>
<tr>
<td>25085-99-8</td>
<td>&gt;= 15.0 - &lt;= 40.0 %</td>
<td>Oxirane, 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)bis-, homopolymer</td>
</tr>
<tr>
<td>68953-36-6</td>
<td>&gt;= 10.0 - &lt;= 30.0 %</td>
<td>Fatty acids, tall-oil, reaction products with tetraethylenepentamine</td>
</tr>
<tr>
<td>25154-52-3</td>
<td>&gt;= 10.0 - &lt;= 30.0 %</td>
<td>nonylphenol</td>
</tr>
<tr>
<td>27554-26-3</td>
<td>&gt;= 7.0 - &lt;= 13.0 %</td>
<td>di-isooctyl phthalate</td>
</tr>
<tr>
<td>68082-29-1</td>
<td>&gt;= 5.0 - &lt;= 10.0 %</td>
<td>Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine</td>
</tr>
<tr>
<td>112945-52-5</td>
<td>&gt;= 1.0 - &lt;= 5.0 %</td>
<td>Silica</td>
</tr>
<tr>
<td>112-57-2</td>
<td>&gt;= 1.0 - &lt;= 5.0 %</td>
<td>3,6,9-triazaundecamethylene-1,11-diamine</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>&gt;= 0.5 - &lt;= 1.5 %</td>
<td>Titanium dioxide</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

General advice:
First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

If inhaled:
If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:
After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:
Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

Flash point:  > 201 °F  > 94 °C

Suitable extinguishing media:
foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:
water jet

Hazards during fire-fighting:
carbon dioxide, carbon monoxide, nitrogen oxides, fumes/smoke, carbon black, corrosive gases/vapours
Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:
Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:
Contain contaminated water/ firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:
For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.
For large amounts: Pump off product.

7. Handling and Storage

Handling
General advice:
Keep away from sources of ignition - No smoking. Keep container tightly sealed. Handle and open container with care.

Protection against fire and explosion:
The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

Storage
General advice:
Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Store protected against freezing.

8. Exposure Controls and Personal Protection

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA</th>
<th>PEL</th>
<th>ACGIH</th>
<th>TWA value</th>
<th>Total dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td></td>
<td>15 mg/m³</td>
<td></td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Talc</td>
<td>OSHA</td>
<td>TWA value</td>
<td>20 millions of particles per cubic foot of air</td>
<td>2.4 millions of particles per cubic foot of air</td>
<td>Respirable</td>
</tr>
</tbody>
</table>

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA</th>
<th>TWA value</th>
<th>TWA value</th>
<th>TWA value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td></td>
<td>0.1 mg/m³</td>
<td>Respirable</td>
<td></td>
</tr>
</tbody>
</table>

The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.
ACGIH TWA value 2 mg/m³ Respirable fraction ;
The value is for particulate matter containing no asbestos
and <1% crystalline silica.

Silica OSHA listed
TWA value 20 millions of particles per cubic foot of air ;
TWA value 0.8 mg/m³ ;
The exposure limit is calculated from the equation,
80/(%SiO₂), using a value of 100% SiO₂. Lower
percentages of SiO₂ will yield higher exposure limits.

**Personal protective equipment**

*Respiratory protection:*
Wear a NIOSH-certified (or equivalent) respirator as necessary.

*Hand protection:*
Wear chemical resistant protective gloves. Protective glove selection must be based on the user's assessment
of the workplace hazards.

*Eye protection:*
Tightly fitting safety goggles (chemical goggles) and face shield.

*Body protection:*
Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron,
protective boots, chemical-protection suit.

*General safety and hygiene measures:*
Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Handle in accordance
with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or
face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be
cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if
necessary (e.g. pinhole leaks).

**9. Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>product specific</td>
</tr>
<tr>
<td>pH value</td>
<td>neutral to slightly alkaline</td>
</tr>
<tr>
<td>Boiling point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>approx. 1.00 g/cm³ (20 °C)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

**10. Stability and Reactivity**

*Conditions to avoid:*
See MSDS section 7 - Handling and storage.

*Substances to avoid:*
zinc, aluminium, oxidizing agents, strong alkalies, acids

*Hazardous reactions:*
The product is stable if stored and handled as prescribed/indicated.

*Decomposition products:*
No hazardous decomposition products if stored and handled as prescribed/indicated.

*Thermal decomposition:*
No decomposition if stored and handled as prescribed/indicated.

**Oxidizing properties:**
not fire-propagating

## 11. Toxicological information

### Acute toxicity

*Information on: nonylphenol*
**Assessment of acute toxicity:**
Of moderate toxicity after single ingestion. Of low toxicity after short-term skin contact.

### Irritation / corrosion

*Information on: nonylphenol*
**Assessment of irritating effects:**
Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

*Information on: 3,6,9-triazaundecamethylene-1,11-diamine*
**Assessment of irritating effects:**
Eye contact causes irritation. Skin contact causes irritation.

### Sensitization

*Information on: Oxirane, 2,2’-[1-methylethylidene]bis(4,1- phenyleneoxymethylene)]bis-, homopolymer*
**Assessment of sensitization:**
May cause sensitization by skin contact.

Can sensitize the skin and/or respiratory tract of allergic persons. May produce an allergic reaction.

### Reproductive toxicity

*Information on: nonylphenol*
The results of animal studies suggest a fertility impairing effect.

*Information on: di-isooctyl phthalate*
Causes impairment of fertility in laboratory animals. The product has not been tested. The statement has been derived from products of a similar structure or composition.

### Development:

*Information on: nonylphenol*
Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

*Information on: di-isooctyl phthalate*
The substance caused malformations/developmental toxicity in laboratory animals. The product has not been tested. The statement has been derived from products of a similar structure or composition.

## 12. Ecological Information

### Other adverse effects:

The product has not been tested.
13. Disposal considerations

Waste disposal of substance:
Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

Container disposal:
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport Information

**Land transport**

<table>
<thead>
<tr>
<th>USDOT</th>
<th>Hazard class:</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group:</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>ID number:</td>
<td>UN 1760</td>
<td></td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Proper shipping name:</td>
<td>CORROSIVE LIQUID, N.O.S. (contains ALKYLAMINE, NONYLPHENOL)</td>
<td></td>
</tr>
</tbody>
</table>

**Sea transport**

<table>
<thead>
<tr>
<th>IMDG</th>
<th>Hazard class:</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group:</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>ID number:</td>
<td>UN 1760</td>
<td></td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Proper shipping name:</td>
<td>CORROSIVE LIQUID, N.O.S. (contains ALKYLAMINE, NONYLPHENOL)</td>
<td></td>
</tr>
</tbody>
</table>

**Air transport**

<table>
<thead>
<tr>
<th>IATA/ICAO</th>
<th>Hazard class:</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group:</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>ID number:</td>
<td>UN 1760</td>
<td></td>
</tr>
<tr>
<td>Hazard label:</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Proper shipping name:</td>
<td>CORROSIVE LIQUID, N.O.S. (contains ALKYLAMINE, NONYLPHENOL)</td>
<td></td>
</tr>
</tbody>
</table>

15. Regulatory Information

**Federal Regulations**

**Registration status:**
Chemical TSCA, US released / listed

**OSHA hazard category:**
IARC 1, 2A or 2B carcinogen; Chronic target organ effects reported; OSHA PEL established; ACGIH TLV established

**EPCRA 311/312 (Hazard categories):**
Acute; Chronic

**CERCLA RQ**

**CAS Number**

**Chemical name**
5000 LBS  67-56-1; 107-15-3  Methanol; ethylenediamine

### State regulations

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS Number</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA, NJ, PA</td>
<td>14807-96-6</td>
<td>talc</td>
</tr>
<tr>
<td>MA, NJ, PA</td>
<td>25154-52-3</td>
<td>nonylphenol</td>
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<td>NJ, PA</td>
<td>27554-26-3</td>
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<td>MA, NJ, PA</td>
<td>112945-52-5</td>
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<td>MA, NJ, PA</td>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
</tr>
</tbody>
</table>

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

### 16. Other Information

#### HMIS III rating
Health: 3a  Flammability: 1  Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:
BASF NA Product Regulations

MSDS Prepared on: 2011/08/31

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