SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Mixture
Trade name: Composite Resource Pour Foam Part A
CAS No: Mixture
Other means of identification: DISTRIBUTED BY REVCHEM COMPOSITES, INC.

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Composite Resources is supplied by Revchem Composites. 2720 South Willow Ave., Bloomington, CA 92316 1-800-281-4975

1.4. Emergency telephone number

Emergency number: 800.424.9300
CHEMTREC: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Not classified

2.2. Label elements

GHS-US labelling
No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>polymethylene polyphenyl isocyanate</td>
<td>(CAS No) 9016-87-9</td>
<td>40 - 70</td>
<td>Not classified</td>
</tr>
<tr>
<td>4,4'-methylene diphenyl diisocyanate</td>
<td>(CAS No) 101-68-8</td>
<td>30 - 60</td>
<td>Not classified</td>
</tr>
<tr>
<td>methylenediphenyl diisocyanate, isomer mixture</td>
<td>(CAS No) 26447-40-5</td>
<td>5 - 10</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

First-aid measures after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor/physician if you feel unwell.

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

Symptoms/injuries after inhalation: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/injuries after ingestion: Swallowing a small quantity of this material will result in serious health hazard.

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

Until victim can be cared for by specialized staff:

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Heating increases the fire hazard. Heating may cause a fire. Heating may cause a fire or explosion. Insufficient data available on direct fire hazard (flashpoint > 100°C). Self-heating in large quantities; may catch fire. Temperature above flashpoint: higher fire/explosion hazard. Highly flammable liquid and vapour.

Explosion hazard: May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Explosive.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. DO NOT fight fire when fire reaches explosives. Evacuate area.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Hazardous waste due to potential risk of explosion. Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Keep away from sources of ignition - No smoking. No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/ lighting/… equipment.

Storage conditions: Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof place. Keep container tightly closed.

Incompatible products: Strong bases. strong acids.

Incompatible materials: Sources of ignition. Direct sunlight. Heat sources.
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>4,4'-methylene diphenyl diisocyanate (101-68-8)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH TWA (ppm)</td>
<td>0.005 ppm</td>
</tr>
<tr>
<td>USA ACGIH STEL (ppm)</td>
<td>0.005 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

- **Personal protective equipment**: Avoid all unnecessary exposure.
- **Hand protection**: Wear protective gloves.
- **Eye protection**: Chemical goggles or safety glasses.
- **Respiratory protection**: Wear approved mask.
- **Other information**: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Dark amber</td>
</tr>
<tr>
<td>Colour</td>
<td>Dark amber</td>
</tr>
<tr>
<td>Odour</td>
<td>Aromatic odor</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>3 °C at 1 ATM (37 °F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>200 °C at 5 mmHg (393 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>220 °C Open Cup (428 °F)</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>&gt; 250 °C (&gt;482 °F)</td>
</tr>
<tr>
<td>Self-ignition temperature</td>
<td>Not self-igniting</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0.00016 mm Hg at 20 °C (68 °F)</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.22 at 25 °C (77 °F)</td>
</tr>
<tr>
<td>Density</td>
<td>1.22 g/cm² at 20 °C (68 °F)</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>10.17 lb/USg at 25 °C (77 °F)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: Reacts in water</td>
</tr>
<tr>
<td>Molar Mass</td>
<td>360 g/mol</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>200 mPa.s at 20 °C (68 °F)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>Upper Explosion limit: For liquids not relevant for classification and labelling.</td>
</tr>
<tr>
<td></td>
<td>Lower Explosion limit: For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below flash point.</td>
</tr>
</tbody>
</table>

9.2. Other information

SADT : > 60 °C (140 Deg F)
SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid

10.5. Incompatible materials
strong acids. Strong bases.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

4,4'-methylenediphenyl diisocyanate (101-68-8)
LD50 oral rat > 7616 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit > 9400 mg/kg bodyweight (Rabbit; Read-across; Equivalent or similar to OECD 402)

methylene diphenyl diisocyanate, isomer mixture (26447-40-5)
LD50 oral rat > 2000 mg/kg bodyweight (Rat; Other; Experimental value)
LD50 dermal rabbit > 9400 mg/kg bodyweight (Rabbit; Read-across; Equivalent or similar to OECD 402)

polymethylene polyphenyl isocyanate (9016-87-9)
LD50 oral rat > 10000 mg/kg (Rat; Literature study)
LD50 dermal rabbit > 5000 mg/kg (Rabbit; Literature study)

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

IARC group 3 - Not classifiable

4,4'-methylenediphenyl diisocyanate (101-68-8)

methylene diphenyl diisocyanate, isomer mixture (26447-40-5)

polymethylene polyphenyl isocyanate (9016-87-9)

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified
Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met. Harmful if swallowed. Harmful if inhaled.
## Composite Resource Pour Foam Part A

### Safety Data Sheet

** According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Symptoms/injuries after inhalation</th>
<th>Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptoms/injuries after ingestion</td>
<td>Swallowing a small quantity of this material will result in serious health hazard.</td>
</tr>
<tr>
<td>Likely routes of exposure</td>
<td>Inhalation</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-methylene diphenyl diisocyanate (101-68-8)</td>
<td></td>
</tr>
<tr>
<td>LC50 fishes 1</td>
<td>&gt; 1000 mg/l (96 h; Danio rerio; Nominal concentration)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>129.7 mg/l (24 h; Daphnia magna; Locomotor effect)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 1640 mg/l (72 h; Desmodesmus subspicatus; Growth rate)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>1000 mg/l (112 days; Aquatic plants)</td>
</tr>
<tr>
<td>methylene diphenyl diisocyanate, isomer mixture (26447-40-5)</td>
<td></td>
</tr>
<tr>
<td>LC50 fishes 1</td>
<td>&gt; 1000 mg/l (96 h; Brachydanio rerio; Lethal)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 1000 mg/l (24 h; Daphnia magna)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 1640 mg/l (72 h; Scenedesmus subspicatus; Growth rate)</td>
</tr>
<tr>
<td>polymethylene polyphenyl isocyanate (9016-87-9)</td>
<td></td>
</tr>
<tr>
<td>LC50 other aquatic organisms 1</td>
<td>&gt; 1000 mg/l (96 h)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
<td>&gt; 1000 mg/l (96 h)</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-methylene diphenyl diisocyanate (101-68-8)</td>
<td>Persistence and degradability: Not readily biodegradable in water. No (test)data on mobility of the substance available.</td>
</tr>
<tr>
<td>methylene diphenyl diisocyanate, isomer mixture (26447-40-5)</td>
<td>Persistence and degradability: Not readily biodegradable in water. No (test)data on mobility of the substance available.</td>
</tr>
<tr>
<td>polymethylene polyphenyl isocyanate (9016-87-9)</td>
<td>Persistence and degradability: Not readily biodegradable in water. Hydrolysis in water. No (test)data on mobility of the substance available.</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composite Resource Pour Foam Part A (Mixture)</td>
<td>Bioaccumulative potential: Not established.</td>
</tr>
<tr>
<td>4,4’-methylene diphenyl diisocyanate (101-68-8)</td>
<td>BCF fish 1: 0 (8 weeks; Cyprinus carpio; Test duration: 8 weeks)</td>
</tr>
<tr>
<td></td>
<td>BCF fish 2: 92 - 200 (4 weeks; Cyprinus carpio; GLP)</td>
</tr>
<tr>
<td></td>
<td>Log Pow: 5.22 (Estimated value)</td>
</tr>
<tr>
<td></td>
<td>Bioaccumulative potential: Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
<tr>
<td>methylene diphenyl diisocyanate, isomer mixture (26447-40-5)</td>
<td>BCF fish 1: 92 (28 days; Cyprinus carpio; GLP)</td>
</tr>
<tr>
<td></td>
<td>Log Pow: 4.51 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 22 °C)</td>
</tr>
<tr>
<td></td>
<td>Bioaccumulative potential: Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
<tr>
<td>polymethylene polyphenyl isocyanate (9016-87-9)</td>
<td>BCF fish 1: 1 (Pisces)</td>
</tr>
<tr>
<td></td>
<td>Bioaccumulative potential: Not bioaccumulative.</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information: Avoid release to the environment.
**Composite Resource Pour Foam Part A**  
Safety Data Sheet CR25K  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Waste disposal recommendations</th>
<th>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to ...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional information</td>
<td>Hazardous waste due to potential risk of explosion. Handle empty containers with care because residual vapours are flammable.</td>
</tr>
<tr>
<td>Ecology - waste materials</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

### SECTION 14: Transport information

In accordance with DOT

**Additional information**

<table>
<thead>
<tr>
<th>Other information</th>
<th>No supplementary information available.</th>
</tr>
</thead>
</table>

**ADR**

**Transport document description**

- **Transport by sea**
  - No additional information available
- **Air transport**
  - No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

No additional information available

#### 15.2. International regulations

**CANADA**

- No additional information available

**EU-Regulations**

- No additional information available

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

- Unst. Expl.   H200
- Eye Irrit. 2   H319
- STOT SE 3   H335

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC**

- Not classified

#### 15.2.2. National regulations

- No additional information available

#### 15.3. US State regulations

- No additional information available

### SECTION 16: Other information

**Other information**

- None.
SDS US (GHS HazCom 2012)

To the best of our knowledge this SDS is accurate. The extent allowed by law, this statement is made in lieu of any other warranties, expressed or implied including but not limited to any implied warranty of merchantability or fitness for a particular purpose and is in lieu of any other obligations or liability on the part of Dura Technologies, Inc.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Mixture
Trade name: Composite Resource Pour Foam Part B
CAS No: Mixture
Other means of identification: DISTRIBUTED BY REVCHEM COMPOSITES, INC.

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Composite Resources is supplied by Revchem Composites. 2720 South Willow Ave., Bloomington, CA 92316 1-800-281-4975

1.4. Emergency telephone number

Emergency number: 800.424.9300
CHEMTREC: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Not classified

2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US):

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable
Full text of H-phrases: see section 16

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyol</td>
<td>(CAS No) TRADE SECRET</td>
<td>&lt; 85</td>
<td>Not classified</td>
</tr>
<tr>
<td>1,1,1,3,3-pentafluoropropane</td>
<td>(CAS No) 460-73-1</td>
<td>&lt; 15</td>
<td>Not classified</td>
</tr>
<tr>
<td>Tris(2-chloro-1-methylethyl)phosphate</td>
<td>(CAS No) 13674-84-5</td>
<td>&lt; 10</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>(CAS No) 111-46-6</td>
<td>1 - 5</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed
Until victim can be cared for by specialized staff:

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Heating increases the fire hazard. Heating may cause a fire. Heating may cause a fire or explosion. Insufficient data available on direct fire hazard (flashpoint > 100°C). Self-heating in large quantities; may catch fire. Temperature above flashpoint: higher fire/explosion hazard.
Explosion hazard: May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Explosive.

5.3. Advice for firefighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. DO NOT fight fire when fire reaches explosives. Evacuate area.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Additional hazards when processed: Hazardous waste due to potential risk of explosion.
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Keep away from sources of ignition - No smoking. No naked lights. No smoking.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Keep in fireproof place.
Incompatible products: Strong bases. strong acids.
Incompatible materials: Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)
No additional information available
**Composite Resource Pour Foam Part B**

Safety Data Sheet CR25K

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

---

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

No additional information available

#### 8.2 Exposure controls

**Personal protective equipment**: Avoid all unnecessary exposure.

**Hand protection**: Wear protective gloves.

**Eye protection**: Chemical goggles or safety glasses.

**Respiratory protection**: Wear approved mask.

**Other information**: When using, do not eat, drink or smoke.

---

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

- **Physical state**: Liquid
- **Appearance**: Amber
- **Colour**: Amber
- **Odour**: Amine-like. Mild.
- **Odour threshold**: No data available
- **pH**: > 7
- **Relative evaporation rate**: Value can be approximated from Henry's Law Constant or vapor pressure.
- **Melting range**: < -5 °C (23 °F)
- **Freezing point**: 3 °C at 1 ATM (37 °F)
- **Boiling point**: 100 °C at 760 mmHg (212 °F)
- **Flash point**: > 94 °C Open Cup (>201 °F)
- **Sublimation point**: No applicable information available
- **Self-ignition**: No self ignition was observed up to the specified temperature.
- **Auto-ignition temperature**: > 200 °C (>392 °F)
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: Not flammable
- **Lower explosion limit**: For liquids not relevant for classification and labeling. The lower explosion point may be 5 - 15°C below the flash point.
- **Upper explosion limit**: For liquids not relevant for classification and labeling.
- **Vapour pressure**: 0.1 mm Hg at 20 °C (68 °F)
- **Relative vapour density**: Not applicable
- **Relative density**: No applicable information available
- **Density**: 8.8 g/cm³ at 25 °C (77 °F)
- **Solubility**: Soluble in water
- **Miscibility with water**: Slightly soluble
- **Thermal decomposition**: No decomposition if stored and handled as prescribed/indicated.
- **Log Pow**: Unspecified
- **Log Kow**: No data available
- **Viscosity, kinematic**: No applicable information available
- **Viscosity, dynamic**: 560 mPa.s at 23 °C (73 °F)
- **Explosive properties**: No data available
- **Oxidising properties**: No data available
- **Explosive limits**: Lower Explosion Limit: For liquids not relevant for classification and labeling. The lower explosion point may be 5-15 C below the flash point.
  
Upper Explosion Limit: For liquids not relevant for classification and labeling.

#### 9.2 Other information

**Miscibility**: with water slightly soluble

---

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No additional information available
10.2. Chemical stability
Stable under normal conditions. Not established. Unstable explosives. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions
Not established.

10.4. Conditions to avoid

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

**diethylene glycol (111-46-6)**
LD50 dermal rabbit: 11890 mg/kg (Rabbit)
ATE CLP (oral): 500,000 mg/kg bodyweight
ATE CLP (dermal): 11890,000 mg/kg bodyweight

**1,1,1,3,3-pentafluoropropane (460-73-1)**
LD50 dermal rabbit: > 2000 mg/kg (Rabbit)
LC50 inhalation rat (ppm): > 200000 ppm/4h (Rat)

**tris(2-chloro-1-methylethyl)phosphate (13674-84-5)**
LD50 oral rat: 1150 - 1750 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value; 1011-1824 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat: > 2000 mg/kg (Rat; Experimental value)
LD50 dermal rabbit: > 2000 mg/kg bodyweight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
ATE CLP (oral): 1150.000 mg/kg bodyweight

Skin corrosion/irritation: Not classified
pH: > 7

Serious eye damage/irritation: Not classified
pH: > 7

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified
Based on available data, the classification criteria are not met

Carcinogenicity: Not classified

Reproductive toxicity: Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified
Based on available data, the classification criteria are not met

Aspiration hazard: Not classified
Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms: Not classified
Based on available data, the classification criteria are not met

Likely routes of exposure: Inhalation

SECTION 12: Ecological information

12.1. Toxicity
diethylene glycol (111-46-6)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>&gt; 5000 ppm (24 h; Carassius auratus)</td>
</tr>
<tr>
<td>LC50 other aquatic organisms 1</td>
<td>1174 mg/l (Xenopus laevis)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 10000 mg/l (24 h; Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>61072 ppm (168 h; Poecilia reticulata)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>&gt; 10000 mg/l (24 h; Daphnia magna)</td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>&gt; 32000 mg/l (96 h; Gambusia affinis)</td>
</tr>
<tr>
<td>TLM other aquatic organisms 1</td>
<td>&gt; 1000 ppm (96 h)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 1</td>
<td>1174 mg/l (72 h; Xenopus laevis; Toxicity test)</td>
</tr>
<tr>
<td>Threshold limit other aquatic organisms 2</td>
<td>10745 mg/l (16 h; Protozoa; Toxicity test)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>2700 mg/l (168 h; Scenedesmus quadricauda)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>100 mg/l (Selenastrum capricornutum)</td>
</tr>
</tbody>
</table>

1,1,1,3,3-pentafluoropropane (460-73-1)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 97.9 mg/l (48 h; Daphnia magna)</td>
</tr>
</tbody>
</table>

tris(2-chloro-1-methylethyl)phosphate (13674-84-5)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>98 mg/l (96 h; Pimephales promelas; GLP)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>65 - 335 mg/l (48 h; Daphnia magna; GLP)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>56.2 mg/l (96 h; Brachydanio rerio)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>73 mg/l (96 h; Selenastrum capricornutum; Growth rate)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Composite Resource Pour Foam Part B (Mixture)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

diethylene glycol (111-46-6)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.</td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>0.02 g O²/g substance</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>1.51 g O²/g substance</td>
</tr>
<tr>
<td>ThOD</td>
<td>1.51 g O²/g substance</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>0.015 % ThOD</td>
</tr>
</tbody>
</table>

Polyol (TRADE SECRET)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

1,1,1,3,3-pentafluoropropane (460-73-1)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Biodegradability in water: no data available.</td>
</tr>
</tbody>
</table>

tris(2-chloro-1-methylethyl)phosphate (13674-84-5)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>Not readily biodegradable in water. No (test)data on mobility of the substance available.</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

Composite Resource Pour Foam Part B (Mixture)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

diethylene glycol (111-46-6)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>100 (3 h; Leuciscus melatonus)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-1.98 (Calculated; Other)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Bioaccumulation: not applicable.</td>
</tr>
</tbody>
</table>

Polyol (TRADE SECRET)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

1,1,1,3,3-pentafluoropropane (460-73-1)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>1.35 - 2.04 (Estimated value)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

tris(2-chloro-1-methylethyl)phosphate (13674-84-5)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>0.8 - 4.6 (Cyprinus carpio; Test duration: 6 weeks)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>2.59 (Experimental value)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

12/17/2014    EN (English)    SDS ID: CR25K
12.4. Mobility in soil

<table>
<thead>
<tr>
<th>diethylene glycol (111-46-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension</td>
</tr>
</tbody>
</table>

12.5. Other adverse effects

Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Additional information: Hazardous waste due to potential risk of explosion.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

No dangerous good in sense of transport regulations

Additional information

Other information: No supplementary information available.

ADR

Transport document description:

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2. National regulations

No additional information available

15.3. US State regulations

No additional information available
Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

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