SAFETY DATA SHEET
RASCOflex US509F B-Comp

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

1.1. Product identifier

Product name
RASCOflex US509F B-Comp

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

Identified uses
Semi-flexible silicate polyurethane Injection Resin

1.3. Details of the supplier of the safety data sheet

Supplier
Rascor Tunnel- und Spezialtiefbau GmbH, Ratsgasse 6, 97688 Bad Kissingen, Germany
Phone: +49 (0) 971 130 2738, Fax: +49 (0) 971 133 6251

Rascor International AG, Gewerbestrasse 4, 8162 Steinmaur, Switzerland
Phone: +41 (0) 44-857 11 11, Fax: +41 (0) 44-857 11 00

1.4. Emergency telephone number

Emergency telephone
Phone: +41 (0) 44-857 11 11 (8.00h - 17.00h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification
Physical hazards
Not Classified

Health hazards

Environmental hazards
Not Classified

2.2. Label elements

Pictogram

Signal word
Danger

Hazard statements
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
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Precautionary statements

P261 Avoid breathing vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Contains

4,4'-methylenediphenyl diisocyanate, Isocyanic Acid, polymethylenepolyphenylene ester, o-(p-isocyanatobenzyl)phenyl isocyanate

Supplementary precautionary statements

P271 Use only outdoors or in a well-ventilated area.
P312 Call a POISON CENTER/doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>4,4'-methylenediphenyl diisocyanate</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 101-68-8</td>
<td>EC number: 202-966-0</td>
</tr>
</tbody>
</table>

Classification

STOT SE 3 - H335
STOT RE 2 - H373
Resp. Sens. 1 - H334
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Skin Irrit. 2 - H315
Carc. 2 - H351
STOT SE 3 - H335
RASCOflex US509F B-Comp

<table>
<thead>
<tr>
<th>Isocyanic Acid, polymethylenepolyphenylene ester</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 9016-87-9</td>
<td></td>
</tr>
</tbody>
</table>

**Classification**
- Acute Tox. 4 - H332
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319
- Resp. Sens. 1 - H334
- Skin Sens. 1 - H317
- Carc. 2 - H351
- STOT SE 3 - H335
- STOT RE 2 - H373
- STOT SE 3 - H335

<table>
<thead>
<tr>
<th>o-(p-isocyanatobenzyl)phenyl isocyanate</th>
<th>5-10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 5873-54-1 EC number: 227-534-9</td>
<td></td>
</tr>
</tbody>
</table>

**Classification**
- Resp. Sens. 1 - H334
- Skin Sens. 1 - H317
- Eye Irrit. 2 - H319
- Acute Tox. 4 - H332
- Skin Irrit. 2 - H315
- STOT RE 2 - H373
- Carc. 2 - H351
- STOT SE 3 - H335
- STOT SE 3 - H335

The full text for all hazard statements is displayed in Section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. Treat symptomatically.

**Inhalation**
IF INHALED: Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Do not induce vomiting.

**Ingestion**
IF SWALLOWED: Get medical attention immediately. If throat irritation or coughing persists, proceed as follows. Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Stop if the affected person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

**Skin contact**
IF ON SKIN (or hair): Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists after washing. Remove contaminated clothing.

**Eye contact**
IF IN EYES: Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.

**Protection of first aiders**
First aid personnel should wear appropriate protective equipment during any rescue.
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4.2. Most important symptoms and effects, both acute and delayed

General information  Treat symptomatically. See Section 11 for additional information on health hazards.
Inhalation  May cause sensitisation by inhalation. The liquid may be irritating to eyes, respiratory system and skin. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Development of symptoms may be delayed for 24 to 48 hours.
Ingestion  Gastrointestinal symptoms, including upset stomach.
Skin contact  May cause skin irritation. May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact  Causes skin and eye irritation.

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

Notes for the doctor  Treat symptomatically.
Specific treatments  Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media  Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media  Do not use water, if avoidable.

5.2. Special hazards arising from the substance or mixture

Specific hazards  The product is not flammable. Irritating gases or vapours.
Hazardous combustion products  Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting  Stop leak if safe to do so. If leakage cannot be stopped, evacuate area. Move containers from fire area if it can be done without risk.
Special protective equipment for firefighters  Use air-supplied respirator, gloves and protective goggles.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions  No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

Environmental precautions  Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up
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Methods for cleaning up
If leakage cannot be stopped, evacuate area. Move containers from spillage area. Large Spillages: Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. Small Spillages: Absorb small quantities with paper towels and evaporate in a safe place. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections
Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions For professional users only. Do not handle until all safety precautions have been read and understood. Use only in well-ventilated areas. Protect from moisture. Keep container dry. Container must be kept tightly closed when not in use. Do not eat, drink or smoke when using this product.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Provide eyewash station. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions Store at temperatures between 4°C and 30°C. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Do not store near heat sources or expose to high temperatures. Store away from the following materials: Acids. Protect from moisture.

Storage class Chemical storage.

7.3. Specific end use(s)
Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters
Occupational exposure limits
Short-term exposure limit (15-minute): Isocyanic acid, polymethylenepolyphenylene ester EH40/2005 WEL’s (United Kingdom (UK), 8/2007). Skin sensitiser. 0.07 mg/m³ (as NCO)
Long-term exposure limit (8-hour TWA): 0.02 mg/m³ (as NCO)
Short-term exposure limit (15-minute): 4,4’-methylene diphenyl diisocyanate EH40/2005 WELs (United Kingdom (UK), 8/2007). Skin sensitiser. 0.07 mg/m³ (as NCO)
Long-term exposure limit (8-hour TWA): 0.02 mg/m³ (as NCO)
Recommended monitoring procedures: Medical supervision of all employees who handle or come into contact with respiratory sensitisers is recommended. Personnel with a history of asthma-type conditions, bronchitis or skin sensitisation conditions should not work with MDI based products. The Occupational Exposure Limits listed do not apply to previously sensitised individuals. Sensitised individuals should be removed from any further exposure.

Isocyanic Acid, polymethylenepolyphenylene ester
Long-term exposure limit (8-hour TWA): EH40/2005 WELs (UK), 12/2011. Skin sensitiser 0.07 mg/m³, (as NCO) 8 hour(s).
Short-term exposure limit (15-minute): EH40/2005 WELs (UK), 12/2011. Skin sensitiser 0.07 mg/m³, (as NCO)
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DNEL
Diphenylmethane 4,4'-diisocyanate
Workers - Dermal; Short term systemic effects: 50 mg/kg bw/day
Workers - Inhalation; Short term systemic effects: 0.1 mg/m³
Workers - Inhalation; Short term local effects: 0.1 mg/m³
Workers - Inhalation; Long term systemic effects: 0.05 mg/m³
Workers - Inhalation; Long term local effects: 0.05 mg/m³
Consumer - Dermal; Short term systemic effects: 25 mg/kg bw/day
Consumer - Inhalation; Short term systemic effects: 0.05 mg/m³
Consumer - Oral; Short term systemic effects: 20 mg/kg bw/day
Consumer - Dermal; Short term local effects: 17.2 mg/cm²
Consumer - Inhalation; Short term local effects: 0.1 mg/m³
Consumer - Inhalation; Long term systemic effects: 0.025 mg/m³
Consumer - Inhalation; Long term local effects: 0.025 mg/m³

PNEC
Industry/Professional - Fresh water; 1 mg/l
- Marine; 0.1 mg/l
- Soil; 1 mg/kg
- STP; 1 mg/l

Isocyanic Acid, polymethylenepolyphenylene ester (CAS: 9016-87-9)

DNEL
Workers - Dermal; Short term systemic effects: 50 mg/kg
Consumer - Dermal; Short term systemic effects: 25 mg/kg
Consumer - Inhalation; Short term systemic effects: 0.05 mg/m³
Consumer - Oral; Short term systemic effects: 20 mg/kg/day
Consumer - Dermal; Short term local effects: 17.2 mg/cm²
Consumer - Inhalation; Long term systemic effects: 0.025 mg/m³
Workers - Inhalation; Short term local effects: 0.1 mg/m³
Workers - Dermal; Short term local effects: 28.7 mg/cm²
Workers - Inhalation; Short term systemic effects: 0.1 mg/m³
Workers - Inhalation; Long term systemic effects: 0.05 mg/m³
Workers - Inhalation; Long term local effects: 0.05 mg/m³
Consumer - Inhalation; Short term local effects: 0.05 mg/m³
Consumer - Inhalation; Long term local effects: 0.025 mg/m³

PNEC
- Fresh water; 1 mg/l
- Marine water; 0.1 mg/l
- Soil; 1 mg/kg
- STP; 1 mg/l
- Intermittent release; 10 mg/l

8.2 Exposure controls

Protective equipment

Appropriate engineering controls
This product is not to be used under conditions of poor ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/face protection
Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
To protect hands from chemicals, gloves should comply with European Standard EN374. It is recommended that gloves are made of the following material: Nitrile rubber. Butyl rubber.
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Other skin and body protection
Wear appropriate clothing to prevent skin contamination.

Hygiene measures
Wash hands thoroughly after handling. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product.

Respiratory protection
Combination filter, type A2/P3.

Environmental exposure controls
Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

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><strong>Appearance</strong></td>
<td>Coloured liquid.</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Brown.</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Characteristic.</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Initial boiling point and range</strong></td>
<td>245°C</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>230°C CC (Closed cup).</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Evaporation factor</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Other flammability</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Bulk density</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Partition coefficient</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>150-400 mPa s @ 25°C</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Explosive under the influence of a flame</strong></td>
<td>Not considered to be explosive.</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>1.18 - 1.24g/cm³ @ 20°C</td>
</tr>
</tbody>
</table>

9.2. Other information
RASCOflex US509F B-Comp

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity Water-reactive materials.

10.2. Chemical stability
Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions The following materials may react with the product: Water, moisture.

10.4. Conditions to avoid
Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials
Materials to avoid Avoid contact with the following materials: Strong alkalis. Amines. Alcohols.

10.6. Hazardous decomposition products
Hazardous decomposition products Heating may generate the following products: Hydrogen cyanide (HCN). Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrous gases (NOₓ).

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity - oral
Notes (oral LD₅₀) LD₅₀ 10000 mg/kg, Oral, Rat

Acute toxicity - dermal
Notes (dermal LD₅₀) LD₅₀ 9400 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation
Notes (inhalation LC₅₀) LD₅₀ 0.49 mg/m³, Inhalation, Rat

ATE inhalation (gases ppm) 90,000.0
ATE inhalation (vapours mg/l) 11.0
ATE inhalation (dusts/mists mg/l) 30.0

Skin corrosion/irritation
Animal data Isocyanic acid, polymethylenepolyphenylene ester
Test - OECD 404 Acute Dermal Irritation/Corrosion
Species - Rabbit
Route of Exposure - Skin
Result - Mild irritant

Respiratory sensitisation
RASCOflex US509F B-Comp

Respiratory sensitisation
Isocyanic acid, polymethylenepolyphenylene ester:
Test - No official guidelines
Route of exposure - Respiratory
Species - Guinea pig
Result - Sensitising

4,4′-Methylenediphenyl diisocyanate:
Test - No official guidelines
Route of exposure - Respiratory
Species - Guinea pig
Result - Sensitising

Sensitisation
Species - Guinea pig
Result - Sensitising

Skin sensitisation
Isocyanic acid, polymethylenepolyphenylene ester:
Route of exposure - Skin
Species - Mouse
Result - Sensitising

4,4′-Methylenediphenyl diisocyanate:
Route of exposure - Skin
Species - Mouse
Result - Sensitising

Carcinogenicity
Isocyanic acid, polymethylenepolyphenylene ester Carcinogenicity Studies EU 2 Jahre 5 Tage pro Woche, Inhalation, Rat
Result - Negative OECD 453 Combined Chronic Toxicity

Carcinogenicity Studies EU 2 Jahre 5 Tage pro Woche, Inhalation, Rat
Result - Positive

Target organs - lungs Rats have been exposed for two years to a respirable aerosol of polymeric MDI which resulted in chronic pulmonary irritation at high concentrations. Only at the top level (6 mg/m³), there was a significant incidence of a benign tumour of the lung (adenoma) and one malignant tumour (adencarcinoma). There were no lung tumours at 1 mg/m³ and no effects at 0.2 mg/m³. Overall, the tumour incidence, both benign and malignant, and the number of animals with the tumours were not different from controls. The increased incidence of lung tumours is associated with prolonged respiratory irritation and the concurrent accumulation of yellow material in the lung, which occurred throughout the study. In the absence of prolonged exposure to high concentrations leading to chronic irritation and lung damage, it is highly unlikely that tumour formation will occur.

IARC carcinogenicity
Isocyanic acid, polymethylenepolyphenylene ester - 3
4,4′-Methylenediphenyl diisocyanate - 3

Reproductive toxicity
4,4′-Methylenediphenyl diisocyanate Does not contain any substances known to be toxic to reproduction. No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure
STOT - single exposure Isocyanic acid, polymethylenepolyphenylene ester Category 3 - Inhalation - Respiratory tract irritation 4,4′-Methylenediphenyl diisocyanate

Specific target organ toxicity - repeated exposure
STOT - repeated exposure Isocyanic acid, polymethylenepolyphenylene ester Category 2 - Inhalation - Respiratory tract 4,4′-Methylenediphenyl diisocyanate Category 2 - Inhalation - Respiratory tract

Aspiration hazard
Not anticipated to present an aspiration hazard, based on chemical structure.
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General information

Mutagenicity:
Isocyanic acid, polymethylenepolyphenylene ester
Test - OECD 474
Result - Negative
Equivocal
Product/ingredient name - 4,4'-Methylenediphenyl diisocyanate
Test - EU EC B. 13/14 Mutagenicity - Reverse Mutation Testing using Bacteria
Result - Negative
Test - OECD 474 Mammalian Erythrocyte Micronucleus Test
Result - Negative
No specific health hazards known.

Skin contact
The liquid may be irritating to skin.

Eye contact
The product is irritating to eyes and skin.

Acute and chronic health hazards

Potential chronic health effects:
Isocyanic acid, polymethylenepolyphenylene ester
Test - OECD 453 Combined Chronic Toxicity/Carcinogenicity Studies
Result type - NOEC Dusts and mists
Result - 0.2 mg/m³ This product may cause skin and eye irritation. May cause damage to
mucous membranes in nose, throat, lungs and bronchial system.

Route of entry
Inhalation
Ingestion
Skin and/or eye contact

Medical symptoms
Symptoms following overexposure may include the following: Allergic rash, Asthma,
pulmonary sensitisation. Breathlessness. Coughing, chest tightness, feeling of chest pressure.

SECTION 12: Ecological Information

12.1. Toxicity

Acute toxicity - fish
Isocyanic acid, polymethylenepolyphenylene ester
LC₅₀, 96 hours: >1000 mg/l, Fish
No official guidelines Chronic NOEC, 112 days: >10000 mg/kg, Fish
4,4'-Methylenediphenyl diisocyanate
LC₅₀, 96 hours: >1000 mg/l, Fish

Acute toxicity - aquatic invertebrates
Isocyanic acid, polymethylenepolyphenylene ester
OECD 202 Daphnia sp. Acute Immobilisation Test* Acute EC₅₀, 24 hours: >1000 mg/l,
Daphnia magna
NOEC, 112 days: >10000 mg/l, Daphnia magna
OECD 211 Daphnia Magna Reproduction Test, 21 days: >10 mg/l, Daphnia magna
OECD 202 Daphnia sp. Acute Immobilisation Test* Acute EC₅₀, 24 hours: >1000 mg/l,
Daphnia

Acute toxicity - aquatic plants
OECD 201 Alga, Growth Inhibition Test, 72 hours: >1640 mg/l, Algae
No official guidelines Chronic NOEC, 112 days: >10000 mg/l, Algae

Acute toxicity - microorganisms
OECD 209 Activated Sludge, Respiration Inhibition Test, 3 hours: >100 mg/l, Bacteria

12.2. Persistence and degradability

Persistence and degradability
Isocyanic acid, polymethylenepolyphenylene ester OECD 302C Inherent Biodegradability:
Modified MITI Test (II) - 28 days - 0% 4,4'-Methylenediphenyl diisocyanate OECD 302C
Inherent Biodegradability: Modified MITI Test (II) - 28 days - 0%

Biodegradation
Isocyanic acid, polymethylenepolyphenylene ester
Not readily biodegradable.
4,4'-Methylenediphenyl diisocyanate
Not readily biodegradable.
RASCOflex US509F B-Comp

12.3. Bioaccumulative potential


Partition coefficient: Not determined.

12.4. Mobility in soil

Mobility: By considering the production and use of the substance, it is unlikely that significant environmental exposure in the air or water will arise. Immiscible with water, but will react with water to produce inert and non-biodegradable solids. Conversion to soluble products, including diamino-diphenylmethane (MDA), is very low under the optimal laboratory conditions of good dispersion and low concentration. In air, the predominant degradation process is predicted to be a relatively rapid OH radical attack, by calculation and by analogy with related diisocyanates.

Adsorption/desorption coefficient: Not available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects: None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Waste is classified as hazardous waste.

Disposal methods: Dispose of contents/container in accordance with national regulations. Waste is classified as hazardous waste.

Waste class: European Waste Catalogue (EWC):
- Waste Code - 08 05 01* Waste Designation - waste isocyanates
- Waste Code - 16 03 05* Waste Designation - organic wastes containing dangerous substances

SECTION 14: Transport information

General: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards
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Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

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

National regulations
Control of Substances Hazardous to Health Regulations 2002 (as amended).
EH40/2005 Workplace exposure limits.
Health and Safety at Work etc. Act 1974 (as amended).

EU legislation
Verwaltungsvorschrift wassergefährdende Stoffe (Germany): WGK 1 (slightly water pollutant)

Guidance
Isocyanates: Health hazards and precautionary measures EH16.
Workplace Exposure Limits EH40.

Restrictions (Title VIII Regulation 1907/2006)
No specific restrictions on use are known for this product.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

Inventories
EU - EINECS/ELINCS
All the ingredients are listed or exempt.
RASCOflex US509F B-Comp

SECTION 16: Other information

<table>
<thead>
<tr>
<th>General Information</th>
<th>Only trained personnel should use this material.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>02/09/2015</td>
</tr>
<tr>
<td>Revision</td>
<td>1</td>
</tr>
<tr>
<td>SDS number</td>
<td>5131</td>
</tr>
<tr>
<td>Hazard statements in full</td>
<td></td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H334</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>