



Safety Data Sheet

acc. to GHS-NZ

POR-15 BLACK

Version number: GHS 3.0
Replaces version of: 2023-08-03 (GHS 2)

Revision: 2024-01-08

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

1.1 Product identifier

Trade name **POR-15 BLACK**
Product code(s) 45001, 45004, 45005, 45008, 45032, 45055

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

Relevant identified uses Paint

1.3 Details of the supplier of the safety data sheet

e-mail (competent person) support@porproducts.com

1.3 Details of the supplier of the safety data sheet

Manufacturer:
P.O.R. Products:
38 Portman Road:
New Rochelle:
NY 10801:
United States:
support@porproducts.com:
www.porproducts.com:

Supplier of Product: HGLB Holdings Limited
Registered Office
69 Rutherford Street
Lower Hutt 5010
Sales@por15nz.com
021-446682
:

1.4 Emergency telephone number

New Zealand ((Mon - Fri, 09:00-17:00 NZST) NZ Poisons Information Center: 0800 764 766 or
+(64) 3 474 7000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 2.6 | flammable liquid | 3 | Flam. Liq. 3 | H226 |
| 3.1I | acute toxicity (inhal.) | 3 | Acute Tox. 3 | H331 |
| 3.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.3 | serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |
| 3.4R | respiratory sensitisation | 1 | Resp. Sens. 1 | H334 |
| 3.4S | skin sensitisation | 1 | Skin Sens. 1 | H317 |
| 3.5 | germ cell mutagenicity | 1B | Muta. 1B | H340 |
| 3.6 | carcinogenicity | 1A | Carc. 1A | H350 |
| 3.8R | specific target organ toxicity - single exposure (respiratory tract irritation) | 3 | STOT SE 3 | H335 |
| 3.9 | specific target organ toxicity - repeated exposure | 2 | STOT RE 2 | H373 |

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| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 3.10 | aspiration hazard | 1 | Asp. Tox. 1 | H304 |
| 4.1A | hazardous to the aquatic environment - acute hazard | 2 | Aquatic Acute 2 | H401 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | 3 | Aquatic Chronic 3 | H412 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling

- Signal word danger

- Pictograms

GHS02, GHS06, GHS08



- Hazard statements

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

- P201 Obtain special instructions before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P284 In case of inadequate ventilation wear respiratory protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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- Precautionary statements

| | |
|----------------|--|
| 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. |
| P321 | Specific treatment (see on this label). |
| P331 | Do NOT induce vomiting. |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER/doctor. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to industrial combustion plant. |

- Hazardous ingredients for labelling

Solvent naphtha (petroleum), light arom., 4,4'-methylenediphenyl diisocyanate, Methylenediphenyl diisocyanate, 1-isocyanato-2-((4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl)-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene, methylenediphenyl diisocyanate

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS |
|--|----------------------|-----------|---|
| Methylenediphenyl diisocyanate | CAS No 26447-40-5 | 25 - < 50 | 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 |
| Solvent naphtha (petroleum), light arom. | CAS No 64742-95-6 | 10 - < 25 | Flam. Liq. 1 / H224 Acute Tox. 5 / H313 Muta. 1B / H340 Carc. 1A / H350 Asp. Tox. 1 / H304 Aquatic Acute 2 / H401 |

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| Name of substance | Identifier | Wt% | Classification acc. to GHS |
|--|-----------------------------------|-----------|--|
| Naphtha (petroleum), hydrotreated heavy | CAS No 64742-48-9 | 10 - < 25 | Flam. Liq. 1 / H224 Acute Tox. 5 / H313 Muta. 1B / H340 Carc. 1A / H350 Asp. Tox. 1 / H304 Aquatic Acute 2 / H401 |
| Polyurethane Pre Polymer | CAS No 38639-88-2 | 5 - < 10 | |
| 4,4'-methylenediphenyl diisocyanate | CAS No 101-68-8 | 5 - < 10 | Acute Tox. 5 / H303 Acute Tox. 2 / H330 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 |
| 1,2,4-trimethylbenzene | CAS No 95-63-6 | 5 - < 10 | Flam. Liq. 3 / H226 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 Asp. Tox. 1 / H304 Aquatic Acute 2 / H401 Aquatic Chronic 2 / H411 |
| methylenediphenyl diisocyanate | CAS No 26447-40-5 | 1 - < 5 | 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 |
| 1-isocyanato-2-((4-isocyanato-3-((4-isocyanatophenyl)methyl)phenyl)methyl)-4-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-2-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-4-((4-isocyanatophenyl)methyl)benzene | CAS No 9016-87-9 | 1 - < 5 | Acute Tox. 5 / H303 Acute Tox. 2 / H330 |
| Polymethylene polyphenylene isocyanate | CAS No 9016-87-9 32055-14-4 | 1 - < 5 | |
| Carbon black | CAS No 1333-86-4 | 1 - < 5 | Aquatic Chronic 4 / H413 |
| cumene | CAS No 98-82-8 | 0.1 - < 1 | Flam. Liq. 3 / H226 STOT SE 3 / H335 Asp. Tox. 1 / H304 Aquatic Acute 2 / H401 Aquatic Chronic 2 / H411 |

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| Name of substance | Identifier | Wt% | Classification acc. to GHS |
|-------------------|-------------------|----------|---|
| acetaldehyde | CAS No 75-07-0 | 0 – <0.1 | Flam. Liq. 1 / H224 Eye Irrit. 2 / H319 Muta. 2 / H341 Carc. 1B / H350 STOT SE 3 / H335 Aquatic Acute 3 / H402 |
| propylene oxide | CAS No 75-56-9 | 0 – <0.1 | Flam. Liq. 1 / H224 Acute Tox. 4 / H302 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Eye Irrit. 2 / H319 Muta. 1B / H340 Carc. 1B / H350 STOT SE 3 / H335 Aquatic Acute 3 / H402 Aquatic Chronic 3 / H412 |

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)
this information is not available

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| Relevant DNELs of components | | | | | | |
|--|-------------------------|----------|------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | DNEL | 0.05 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | DNEL | 0.1 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| 1,2,4-trimethylbenzene | 95-63-6 | DNEL | 100 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 1,2,4-trimethylbenzene | 95-63-6 | DNEL | 100 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| 1,2,4-trimethylbenzene | 95-63-6 | DNEL | 100 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| 1,2,4-trimethylbenzene | 95-63-6 | DNEL | 100 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| 1,2,4-trimethylbenzene | 95-63-6 | DNEL | 16,171 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| 1-isocyanato-2-[(4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl]-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | DNEL | 0.05 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| 1-isocyanato-2-[(4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl]-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | DNEL | 0.1 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| Polymethylene polyphenylene isocyanate | 9016-87-9 32055-14-4 | DNEL | 0.05 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| Polymethylene polyphenylene isocyanate | 9016-87-9 32055-14-4 | DNEL | 0.1 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| cumene | 98-82-8 | DNEL | 100 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| cumene | 98-82-8 | DNEL | 250 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| cumene | 98-82-8 | DNEL | 15.4 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| propylene oxide | 75-56-9 | DNEL | 2.4 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |

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| Relevant DNELs of components | | | | | | |
|------------------------------|---------|----------|-----------------------|------------------------------------|-------------------|-----------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| propylene oxide | 75-56-9 | DNEL | 170 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |

| Relevant PNECs of components | | | | | | |
|---|-----------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | PNEC | 1 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | PNEC | 0.1 mg/l | aquatic organisms | marine water | short-term (single instance) |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | PNEC | 1 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | PNEC | 1 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| 1,2,4-trimethylbenzene | 95-63-6 | PNEC | 0.12 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| 1,2,4-trimethylbenzene | 95-63-6 | PNEC | 0.12 mg/l | aquatic organisms | marine water | short-term (single instance) |
| 1,2,4-trimethylbenzene | 95-63-6 | PNEC | 2.41 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| 1,2,4-trimethylbenzene | 95-63-6 | PNEC | 13.56 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| 1,2,4-trimethylbenzene | 95-63-6 | PNEC | 13.56 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| 1,2,4-trimethylbenzene | 95-63-6 | PNEC | 2.34 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| 1-isocyanato-2-[(4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl]-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | PNEC | 1 mg/l | aquatic organisms | freshwater | short-term (single instance) |

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| Relevant PNECs of components | | | | | | |
|--|-------------------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| 1-isocyanato-2-({4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl)-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | PNEC | 0.1 mg/l | aquatic organisms | marine water | short-term (single instance) |
| 1-isocyanato-2-({4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl)-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | PNEC | 1 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| 1-isocyanato-2-({4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl)-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | PNEC | 1 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Polymethylene polyphenylene isocyanate | 9016-87-9 32055-14-4 | PNEC | 3.7 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Polymethylene polyphenylene isocyanate | 9016-87-9 32055-14-4 | PNEC | 0.37 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Polymethylene polyphenylene isocyanate | 9016-87-9 32055-14-4 | PNEC | 11.7 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Polymethylene polyphenylene isocyanate | 9016-87-9 32055-14-4 | PNEC | 1.17 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Polymethylene polyphenylene isocyanate | 9016-87-9 32055-14-4 | PNEC | 2.33 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 0.035 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 0.004 mg/l | aquatic organisms | marine water | short-term (single instance) |

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| Relevant PNECs of components | | | | | | |
|------------------------------|---------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| cumene | 98-82-8 | PNEC | 200 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 3.22 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 0.322 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 0.624 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| propylene oxide | 75-56-9 | PNEC | 0.052 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| propylene oxide | 75-56-9 | PNEC | 0.005 mg/l | aquatic organisms | marine water | short-term (single instance) |
| propylene oxide | 75-56-9 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| propylene oxide | 75-56-9 | PNEC | 0.245 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| propylene oxide | 75-56-9 | PNEC | 0.025 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| propylene oxide | 75-56-9 | PNEC | 0.019 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | liquid |
| Colour | not determined |
| Odour | characteristic |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | 310.1 °F at 101.3 kPa |
| Flammability | flammable liquid in accordance with GHS criteria |
| Lower and upper explosion limit | 1.4 vol% - 7.6 vol% |
| Flash point | 43.5 °C |
| Auto-ignition temperature | 183 °C (auto-ignition temperature (liquids and gases)) |
| Decomposition temperature | not relevant |
| pH (value) | not determined |
| Kinematic viscosity | not determined |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

| | |
|-----------------|---------------------|
| Vapour pressure | ≤240 kPa at 37.8 °C |
|-----------------|---------------------|

Density and/or relative density

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| | |
|-------------------------|---|
| Density | not determined |
| Relative vapour density | information on this property is not available |

| | |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

9.2 Other information

| | |
|--|------------------------------------|
| Information with regard to physical hazard classes | there is no additional information |
|--|------------------------------------|

Other safety characteristics

| | |
|---------------|--------|
| Solid content | 10.4 % |
|---------------|--------|

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Toxic if inhaled.

- Acute toxicity estimate (ATE)

Inhalation: vapour 9.412 mg/l/4h

| Acute toxicity estimate (ATE) of components | | | |
|--|------------|-----------------------|---------------|
| Name of substance | CAS No | Exposure route | ATE |
| Methylenediphenyl diisocyanate | 26447-40-5 | inhalation: vapour | 11 mg/l/4h |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | dermal | >2,000 mg/kg |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | dermal | >2,000 mg/kg |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | oral | >2,000 mg/kg |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | inhalation: dust/mist | 0.368 mg/l/4h |
| 1,2,4-trimethylbenzene | 95-63-6 | inhalation: vapour | 11 mg/l/4h |
| methylenediphenyl diisocyanate | 26447-40-5 | inhalation: vapour | 11 mg/l/4h |
| 1-isocyanato-2-[(4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl]-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | oral | >2,000 mg/kg |
| 1-isocyanato-2-[(4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl]-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | inhalation: vapour | 0.5 mg/l/4h |
| 1-isocyanato-2-[(4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl]-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | inhalation: dust/mist | 0.368 mg/l/4h |
| propylene oxide | 75-56-9 | oral | 382 mg/kg |
| propylene oxide | 75-56-9 | dermal | 300 mg/kg |
| propylene oxide | 75-56-9 | inhalation: vapour | 3 mg/l/4h |

Skin corrosion/irritation

Causes skin irritation.

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Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components | | | | | |
|--|------------|----------|-------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | LL50 | 8.2 mg/l | fish | 96 h |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | EL50 | 4.5 mg/l | aquatic invertebrates | 48 h |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | LL50 | 8.2 mg/l | fish | 96 h |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | EL50 | 4.5 mg/l | aquatic invertebrates | 48 h |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | LC50 | >1,000 mg/l | fish | 96 h |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | EC50 | 129.7 mg/l | aquatic invertebrates | 24 h |
| 1,2,4-trimethylbenzene | 95-63-6 | LC50 | 7.72 mg/l | fish | 96 h |
| 1,2,4-trimethylbenzene | 95-63-6 | EC50 | 2.356 mg/l | algae | 96 h |

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| Aquatic toxicity (acute) of components | | | | | |
|--|-----------|----------|--------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| 1-isocyanato-2-((4-isocyanato-3-((4-isocyanatophenyl)methyl)phenyl)methyl)-4-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-2-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-4-((4-isocyanatophenyl)methyl)benzene | 9016-87-9 | LC50 | >1,000 mg/l | fish | 96 h |
| 1-isocyanato-2-((4-isocyanato-3-((4-isocyanatophenyl)methyl)phenyl)methyl)-4-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-2-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-4-((4-isocyanatophenyl)methyl)benzene | 9016-87-9 | EC50 | 129.7 mg/l | aquatic invertebrates | 24 h |
| Carbon black | 1333-86-4 | EC50 | >5,600 mg/l | aquatic invertebrates | 24 h |
| Carbon black | 1333-86-4 | ErC50 | >10,000 mg/l | algae | 72 h |
| cumene | 98-82-8 | LC50 | 4.7 mg/l | fish | 96 h |
| cumene | 98-82-8 | EC50 | 2.14 mg/l | aquatic invertebrates | 48 h |
| cumene | 98-82-8 | ErC50 | 2.01 mg/l | algae | 72 h |
| acetaldehyde | 75-07-0 | EC50 | 48.3 mg/l | aquatic invertebrates | 48 h |
| propylene oxide | 75-56-9 | LC50 | 52 mg/l | fish | 96 h |
| propylene oxide | 75-56-9 | EC50 | 650 mg/l | aquatic invertebrates | 24 h |
| propylene oxide | 75-56-9 | ErC50 | 240 mg/l | algae | 96 h |

| Aquatic toxicity (chronic) of components | | | | | |
|--|------------|----------|------------|----------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | EL50 | 10 mg/l | fish | 21 d |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | EC50 | 15.41 mg/l | microorganisms | 40 h |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | EL50 | 10 mg/l | fish | 21 d |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | EC50 | 15.41 mg/l | microorganisms | 40 h |

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| Aquatic toxicity (chronic) of components | | | | | |
|--|-----------|----------|-------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | ErC50 | >1,640 mg/l | algae | 3 d |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | EC50 | >100 mg/l | microorganisms | 3 h |
| 1-isocyanato-2-[(4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl]-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | ErC50 | >1,640 mg/l | algae | 3 d |
| 1-isocyanato-2-[(4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl]-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | EC50 | >100 mg/l | microorganisms | 3 h |
| cumene | 98-82-8 | EC50 | 1.5 mg/l | aquatic invertebrates | 21 d |
| cumene | 98-82-8 | LC50 | >3 mg/l | aquatic invertebrates | 21 d |
| acetaldehyde | 75-07-0 | ErC50 | ≤249 mg/l | algae | 5 d |

12.2 Persistence and degradability

| Degradability of components | | | | | | |
|-----------------------------|---------|------------------|------------------|------|--------|--------|
| Name of substance | CAS No | Process | Degradation rate | Time | Method | Source |
| cumene | 98-82-8 | oxygen depletion | 70 % | 20 d | | ECHA |

12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components | | | | |
|---|----------|-----|----------------------------|----------|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | 92 | 4.51 (pH value: ~7, 22 °C) | |
| 1,2,4-trimethylbenzene | 95-63-6 | 243 | | |

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| Bioaccumulative potential of components | | | | |
|--|-------------------------|-------|----------------------------|----------|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
| 1-isocyanato-2-((4-isocyanato-3-((4-isocyanatophenyl)methyl)phenyl)methyl)-4-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-2-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-4-((4-isocyanatophenyl)methyl)benzene | 9016-87-9 | 92 | 4.51 (pH value: ~7, 22 °C) | |
| Polymethylene polyphenylene isocyanate | 9016-87-9 32055-14-4 | | 4.52 (pH value: ~7, 22 °C) | |
| cumene | 98-82-8 | 94.69 | 3.55 (23 °C) | |
| acetaldehyde | 75-07-0 | | 0.63 | |
| propylene oxide | 75-56-9 | | <1 (pH value: 6.8, 20 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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SECTION 14: Transport information

14.1 UN number

| | |
|-----------|---------|
| UN RTDG | UN 1263 |
| IMDG-Code | UN 1263 |
| ICAO-TI | UN 1263 |

14.2 UN proper shipping name

| | |
|-----------|-------|
| UN RTDG | PAINT |
| IMDG-Code | PAINT |
| ICAO-TI | Paint |

14.3 Transport hazard class(es)

| | |
|-----------|---|
| UN RTDG | 3 |
| IMDG-Code | 3 |
| ICAO-TI | 3 |

14.4 Packing group

| | |
|-----------|-----|
| UN RTDG | III |
| IMDG-Code | III |
| ICAO-TI | III |

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

SECTION 15: Regulatory information

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

There is no additional information.

National regulations (New Zealand)

New Zealand Inventory of Chemicals
(NZIoC)

Surface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020
HSR002669. All ingredients are listed or exempt from listing.

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| NZIoC | | |
|--|------------|--|
| Name of substance | CAS No | Approval status |
| methylenediphenyl diisocyanate | 26447-40-5 | HSNO Approval: HSR002746 |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | Does not have an individual approval but may be used under an appropriate group standard |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | HSNO Approval: HSR001503 |
| acetaldehyde | 75-07-0 | HSNO Approval: HSR001069 |
| propylene oxide | 75-56-9 | HSNO Approval: HSR001220 |
| 1-isocyanato-2-[(4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl]-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene | 9016-87-9 | HSNO Approval: HSR003222 |
| 1,2,4-trimethylbenzene | 95-63-6 | HSNO Approval: HSR001382 |
| cumene | 98-82-8 | HSNO Approval: HSR001184 |
| Polyurethane Pre Polymer | 38639-88-2 | Does not have an individual approval but may be used under an appropriate group standard |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | HSNO Approval: HSR003218 |
| Carbon black | 1333-86-4 | HSNO Approval: HSR002801 |
| Polymethylene polyphenylene isocyanate | 32055-14-4 | Does not have an individual approval but may be used as a component in a product covered by a group standard. It is not approved for use as a chemical in its own right. |
| Polymethylene polyphenylene isocyanate | 9016-87-9 | HSNO Approval: HSR003222 |
| Methylenediphenyl diisocyanate | 26447-40-5 | HSNO Approval: HSR002746 |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



Safety Data Sheet

acc. to GHS-NZ

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SECTION 16: Other information

Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.