



# Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

## POR-15 CLEAR

Version number: GHS 2.0  
Replaces version of: 2023-02-13 (GHS 1)

Revision: 2024-02-15

### 1 Identification

#### 1.1 Product identifier

Trade name **POR-15 CLEAR**  
Product code(s) 45101, 45104, 45105, 45108, 45155

#### 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

P.O.R. Products  
38 Portman Road  
New Rochelle NY 10801  
United States

Telephone: +1 914-636-0700  
e-mail: support@porproducts.com  
Website: www.porproducts.com

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

#### 1.4 Emergency telephone number

Emergency information service 1-800-255-3924  
ChemTel Inc.

### 2 Hazard 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 sensitization   | 1        | Resp. Sens. 1             | H334             |
| 3.4S    | skin sensitization  | 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             |
| 3.10    | aspiration hazard   | 1        | Asp. Tox. 1               | H304             |

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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.

## 2.2 Label elements

### Labeling

- Signal word                    danger

- Pictograms

GHS02, GHS06, GHS07,  
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.         |

- 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.   |
| 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.                           |
| 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.   |

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### - Precautionary statements

P405 Store locked up.  
P501 Dispose of contents/container to industrial combustion plant.

### - Hazardous ingredients for labelling

Methylenediphenyl diisocyanate, Solvent naphtha (petroleum), light arom., 4,4'-methylenediphenyl diisocyanate, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]phenyl-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 at a concentration of  $\geq 0.1\%$ .

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## 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<br>26447-40-5 | 30 - < 60 | Acute Tox. 4 / H332<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Resp. Sens. 1 / H334<br>Skin Sens. 1 / H317<br>Carc. 2 / H351<br>STOT SE 3 / H335<br>STOT RE 2 / H373 |
| Solvent naphtha (petroleum), light arom. | CAS No<br>64742-95-6 | 10 - < 30 | Flam. Liq. 1 / H224<br>Muta. 1B / H340<br>Carc. 1A / H350<br>Asp. Tox. 1 / H304   |
| 4,4'-methylenediphenyl diisocyanate      | CAS No<br>101-68-8   | 10 - < 30 | Acute Tox. 2 / H330<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Resp. Sens. 1 / H334<br>Skin Sens. 1 / H317<br>Carc. 2 / H351<br>STOT SE 3 / H335<br>STOT RE 2 / H373 |
| 1,2,4-trimethylbenzene                   | CAS No<br>95-63-6    | 5 - < 10  | Flam. Liq. 3 / H226<br>Acute Tox. 4 / H332<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H335<br>Asp. Tox. 1 / H304   |

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| Name of substance  | Identifier           | Wt%      | Classification acc. to GHS  |
|--|----------------------|----------|---|
| methylenediphenyl diisocyanate   | CAS No<br>26447-40-5 | 5 – < 10 | Acute Tox. 4 / H332<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Resp. Sens. 1 / H334<br>Skin Sens. 1 / H317<br>Carc. 2 / H351<br>STOT SE 3 / H335<br>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<br>9016-87-9  | 1 – < 5  | Acute Tox. 2 / H330   |

### Remarks

For full text of abbreviations: see SECTION 16

## 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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### 5 Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

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 vapor-air mixture. Solvent vapors 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<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate 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.

### 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 vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 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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### 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. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors 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 feedings.

#### 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 vapors 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.

### 8 Exposure controls/ Personal protection

#### 8.1 Control parameters

##### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent  | CAS No   | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source   |
|---------|--|----------|------------|-----------|-------------|------------|--------------|-----------------|-------------------|----------|----------|
| CA      | diphenylmethane-4,4'-diisocyanate (methylbis(phenylisocyanate)) (4,4'-MDI) | 101-68-8 | OEL (AB)   | 0.005     | 0.05        |            |              |                 |                   |          | OHS Code |

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### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent                                | CAS No    | Identifier   | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source          |
|---------|--|-----------|--------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|-----------------|
| CA      | methylbis(phenylisocyanate) (4,4'-MDI)       | 101-68-8  | OEL (BC)     | 0.005     |                          |            |                           | 0.01            |                                |          | "BC Regulation" |
| CA      | methylbis(phenylisocyanate) (4,4'-MDI)       | 101-68-8  | OEL (ON)     | 0.005     |                          |            |                           | 0.02            |                                |          | Regulation 833  |
| CA      | methylbis(phenylisocyanate) (4,4'-MDI)       | 101-68-8  | OEL (ON-MoL) | 0.005     |                          |            |                           | 0.02            |                                |          | MoL             |
| CA      | methylenebis(p-phenyl isocyanate) (4,4'-MDI) | 101-68-8  | PEV/VEA      | 0.005     | 0.051                    |            |                           |                 |                                |          | Regulation OHS  |
| CA      | Polymethylene polyphenyl isocyanate (PAPI)   | 9016-87-9 | OEL (AB)     | 0.005     | 0.07                     |            |                           |                 |                                |          | OHS Code        |
| CA      | 1,2,4-trimethylbenzene                       | 95-63-6   | OEL (BC)     | 25        |                          |            |                           |                 |                                |          | "BC Regulation" |

#### Notation

Ceiling-C  
STEL

ceiling value is a limit value above which exposure should not occur  
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### 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 <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects    |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | DNEL     | 0.1 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | acute - local effects      |
| 1,2,4-trimethylbenzene              | 95-63-6  | DNEL     | 100 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| 1,2,4-trimethylbenzene              | 95-63-6  | DNEL     | 100 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| 1,2,4-trimethylbenzene              | 95-63-6  | DNEL     | 100 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - local effects    |
| 1,2,4-trimethylbenzene              | 95-63-6  | DNEL     | 100 mg/m <sup>3</sup>  | 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 |

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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           |
| 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 <sup>3</sup> | 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 <sup>3</sup>  | 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) |



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| Relevant PNECs of components  |           |          |                 |                       |                              |                              |
|---|-----------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance   | CAS No    | Endpoint | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| 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) |
| 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     | 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-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-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) |

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

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### 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.

#### Environmental exposure controls

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

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state   | liquid  |
| Color  | not determined  |
| Odor   | characteristic  |
| Melting point/freezing point                             | not determined  |
| Boiling point or initial boiling point and boiling range | ≥-20 °C 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  | 47.7 °C   |
| Auto-ignition temperature                                | ≥280 °C (auto-ignition temperature (liquids and gases)) |
| Decomposition temperature                                | not relevant  |
| pH (value)   | not determined  |
| Kinematic viscosity                                      | not determined  |
| Solubility(ies)  | not determined  |

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### Partition coefficient

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

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

### Density and/or relative density

|                         |   |
|-------------------------|---|
| 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

|             |         |
|-------------|---------|
| VOC content | 247 g/L |
|-------------|---------|

## 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

Oxidizers

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### 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.

## 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 >7.402 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    |
| 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  | 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 |

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

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

#### Germ cell mutagenicity

May cause genetic defects.

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### 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.

## 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          |
| 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          |
| 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          |

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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 | EC50     | 129.7 mg/l | aquatic invertebrates | 24 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          |
| 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           |

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

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### 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 at 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.

## 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/packages

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.

## 14 Transport information

### 14.1 UN number

UN RTDG UN 1992

IMDG-Code UN 1992

ICAO-TI UN 1992

### 14.2 UN proper shipping name

UN RTDG FLAMMABLE LIQUID, TOXIC, N.O.S.

IMDG-Code FLAMMABLE LIQUID, TOXIC, N.O.S.

ICAO-TI Flammable liquid, toxic, n.o.s.

Technical name (hazardous ingredients) 4,4'-methylenediphenyl diisocyanate, Solvent naphtha (petroleum), light arom.

### 14.3 Transport hazard class(es)

UN RTDG 3 (6.1)

IMDG-Code 3 (6.1)

ICAO-TI 3 (6.1)

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### 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 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

#### **Transport information - National regulations - Additional information (UN RTDG)**

|                    |       |
|--------------------|-------|
| UN number          | 1992  |
| Class              | 3     |
| Subsidiary risk(s) | 6.1   |
| Packing group      | III   |
| Danger label(s)    | 3+6.1 |



|                          |                    |
|--------------------------|--------------------|
| Special provisions (SP)  | 223, 274 (UN RTDG) |
| Excepted quantities (EQ) | E1 (UN RTDG)       |
| Limited quantities (LQ)  | 5 L (UN RTDG)      |

#### **International Maritime Dangerous Goods Code (IMDG) - Additional information**

|                  |       |
|------------------|-------|
| Marine pollutant | -     |
| Danger label(s)  | 3+6.1 |



|                          |          |
|--------------------------|----------|
| Special provisions (SP)  | 223, 274 |
| Excepted quantities (EQ) | E1       |
| Limited quantities (LQ)  | 5 L      |
| EmS                      | F-E, S-D |
| Stowage category         | A        |



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### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 3+6.1



Special provisions (SP) A3

Excepted quantities (EQ) E1

Limited quantities (LQ) 2 L

### 15 Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### National regulations (United States)

##### Toxic Substance Control Act (TSCA)

all ingredients are listed (ACTIVE) or exempt from listing

##### Superfund Amendment and Reauthorization Act (SARA TITLE III)

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

| Name of substance  | CAS No    | Remarks | Effective date |
|--|-----------|---------|----------------|
| 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 |         | 1994-12-31     |
| 1,2,4-trimethylbenzene   | 95-63-6   |         | 1986-12-31     |
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8  |         | 1986-12-31     |

##### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance                   | CAS No   | Remarks | Statutory code | Final RQ pounds (Kg) |
|-------------------------------------|----------|---------|----------------|----------------------|
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 |         | 3              | 5000 (2270)          |

##### Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

##### Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)



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| Name of substance  | CAS No     | Functionality | Authoritative Lists  |
|--|------------|---------------|--|
| Methylenediphenyl diisocyanate   | 26447-40-5 |               | EC Annex VI Resp. Sens. - Cat. 1<br>Hazard Traits identified by DTSC   |
| Solvent naphtha (petroleum), light arom.   | 64742-95-6 |               | EC Annex VI CMRs - Cat. 1B   |
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8   |               | CA TACs<br>EC Annex VI Resp. Sens. - Cat. 1<br>Hazard Traits identified by DTSC<br>IRIS Neurotoxicants<br>OEHHA RELs |
| 1,2,4-trimethylbenzene   | 95-63-6    |               | CA NLS<br>IRIS Neurotoxicants  |
| methylenediphenyl diisocyanate   | 26447-40-5 |               | EC Annex VI Resp. Sens. - Cat. 1<br>Hazard Traits identified by DTSC   |
| 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  |               | OEHHA RELs   |

### - Toxic or Hazardous Substance List (MA-TURA)

| Name of substance                   | CAS No  | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|-------------------------------------|---------|----------|-----------------|---------------------|------------------------------------|
| methylenediphenyl diisocyanate      |         | 1050     |                 |                     | 1.0 %                              |
| 1,2,4-trimethylbenzene              | 95-63-6 |          |                 |                     | 1.0 %                              |
| 4,4'-methylenediphenyl diisocyanate |         | 1050     |                 |                     | 1.0 %                              |
| Methylenediphenyl diisocyanate      |         | 1050     |                 |                     | 1.0 %                              |

### - Hazardous Substances List (MN-ERTK)

| Name of substance                   | CAS No     | References | Remarks |
|-------------------------------------|------------|------------|---------|
| methylenediphenyl diisocyanate      |            | N          |         |
| 1,2,4-trimethylbenzene              | 25551-13-7 | A          |         |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8   | A, N, O    |         |
| Methylenediphenyl diisocyanate      |            | N          |         |

#### Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

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### - Hazardous Substance List (NJ-RTK)

| Name of substance  | CAS No    | Remarks | Classifications |
|--|-----------|---------|-----------------|
| 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 | 9016-87-9 |         |                 |
| 1,2,4-trimethylbenzene   | 95-63-6   |         | F2              |
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8  |         | R1              |
| Methylenediphenyl diisocyanate   |           |         |                 |

#### Legend

F2 Flammable - Second Degree  
R1 Reactive - First Degree

### - Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory                   | CAS No   | Classification |
|--|----------|----------------|
| BENZENE, 1,1'-METHYLENEBIS[4-ISOCYANATO- | 101-68-8 | E              |
| PSEUDOCUMENE                             | 95-63-6  | E              |
| BENZENE, 1,1'-METHYLENEBIS[4-ISOCYANATO- | 101-68-8 | E              |
| BENZENE, 1,1'-METHYLENEBIS[4-ISOCYANATO- | 101-68-8 | E              |

#### Legend

E Environmental hazard

### - Hazardous Substance List (RI-RTK)

| Name of substance                   | CAS No     | References |
|-------------------------------------|------------|------------|
| methylenediphenyl diisocyanate      | 101-68-8   | T          |
| methylenediphenyl diisocyanate      | 101-68-8   | T          |
| methylenediphenyl diisocyanate      | 101-68-8   | T          |
| 1,2,4-trimethylbenzene              | 25551-13-7 | T          |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8   | T          |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8   | T          |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8   | T          |
| Methylenediphenyl diisocyanate      | 101-68-8   | T          |
| Methylenediphenyl diisocyanate      | 101-68-8   | T          |
| Methylenediphenyl diisocyanate      | 101-68-8   | T          |

#### Legend

T Toxicity (ACGIH®)



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### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description  |
|---------------------|--------|--|
| Chronic             | *      | chronic (long-term) health effects may result from repeated overexposure   |
| Health              | 2      | temporary or minor injury may occur  |
| Flammability        | 2      | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur                                       |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |  |

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category       | Degree of hazard | Description  |
|----------------|------------------|--|
| Flammability   | 2                | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| Health         | 2                | material that, under emergency conditions, can cause temporary incapacitation or residual injury                     |
| Instability    | 0                | material that is normally stable, even under fire conditions   |
| Special hazard |                  |  |

### National regulations (Canada)

#### Domestic Substances List (DSL)/Non-domestic Substances List (NDSL)

All ingredients are listed or exempt from listing.

#### Domestic Substances List (DSL)

All ingredients are listed.

#### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| NZ      | NZIoC      | not all ingredients are listed |
| AU      | AIIC       | all ingredients are listed     |
| CA      | DSL        | all ingredients are listed     |
| CN      | IECSC      | all ingredients are listed     |
| EU      | ECSI       | all ingredients are listed     |
| EU      | REACH Reg. | not all ingredients are listed |

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| Country | Inventory | Status                              |
|---------|-----------|-------------------------------------|
| JP      | CSCL-ENCS | not all ingredients are listed      |
| KR      | KECI      | not all ingredients are listed      |
| MX      | INSQ      | not all ingredients are listed      |
| PH      | PICCS     | all ingredients are listed          |
| TR      | CICR      | not all ingredients are listed      |
| TW      | TCSI      | all ingredients are listed          |
| US      | TSCA      | all ingredients are listed (ACTIVE) |

### Legend

|            |   |
|------------|---|
| AIIC       | Australian Inventory of Industrial Chemicals                            |
| CICR       | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS  | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL        | Domestic Substances List (DSL)  |
| ECSCI      | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| REACH Reg. | REACH registered substances   |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substance Control Act   |

## 15.2 Chemical Safety Assessment

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

## 16 Other information

### Key literature references and sources for data

Hazardous Products Regulations (HPR)  
SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)

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.