

According to Directive 1907/2006/EC, 2020/878
Version 3.0 Revision date: 09-04-2025
Trade name: PU foam soft B

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

1.1 Product identification :

Product name: PU foam soft B.
Flexible isocyanate polymer foam.
UFI code: EWV2-206R-800F-EWYV
Product description: isocyanate
Customs code: 39093100

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

Usage : Isocyanate component of a 2-component polyurethane system.
Uses advised against: Professional use of aprotic polar solvents for cleaning.
Consumer spray applications. Consumer products requiring heating to more than 40 °C.

1.3 Contact details of the supplier of the safety data sheet

Responsible distributor: ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number :

For Belgium: Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture :

Classification according to Directive (EC) No 1272/2008 and its amendments.

The product is classified in accordance with applicable legislation.

Classification according to Regulation (EC) No 1272/2008, as amended.

Health risks

Acute toxicity (inhalation, dust, mist) Category 4 - H332
Skin corrosion/irritation, Category 2 - H315
Serious eye damage/eye irritation, Category 2 - H319
Respiratory sensitisation, Category 1 - H334
Skin sensitisation, Category 1 - H317
Carcinogenicity, Category 2 - H351
Specific target organ toxicity for single exposure, Category 3, Irritation of the respiratory tract - H335
Specific target organ toxicity for repeated exposure, Category 2 - H373
For the full text of H phrases referred to in this section, see section 16.

2.2 Label elements :

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS] :

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Danger pictograms :

Signal word :

Danger.

Hazardous ingredients that must be labelled

- ✓ 4,4'-methylenediphenyl diisocyanate
- ✓ isocyanate acid, polymethylenepolyphenylene ester, polymer with methyloxirane polymer with oxirane ether with 1,2,3-propaantriol
- ✓ diphenylmethane diisocyanate
- ✓ isocyanic acid, polymethylene polyphenyl ester, polymer with 1,2-ethanediamine, methyloxirane and oxirane, sequential

Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes severe eye irritation.
H332 Harmful by inhalation.
H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
H335 May cause respiratory tract irritation.
H351 Suspected of causing cancer (by inhalation).
H373 May cause damage to organs (respiratory tract) through prolonged or repeated exposure (by inhalation).

Cautious advice

Prevention:

P201 Consult special instructions before use.
P260: Do not breathe dust/fume/gas/mist/vapour/spray.
P264 Wash hands, forearms and face thoroughly after handling.
P280 Wear protective clothing, eye protection, face protection.

Action:

P304+340+312: AFTER INHALATION: Remove victim to fresh air and rest in a position that makes breathing easier. If you feel unwell, call a POISON CENTER or doctor.
P308+313: AFTER (possible) exposure: consult a doctor.

Storage:

P405 Keep under lock and key.

Additional labelling elements :

EUH204 Contains isocyanates. May cause an allergic reaction.
"From 24 August 2023, adequate training will be required before industrial or professional use."

Special packaging requirements

The containers must have a child-resistant closure.

Warning of tangible danger:

Not applicable.

2.3 Other hazards :

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Toxicological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

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SECTION 3: Composition and information on ingredients

3.2 Mixing :

Chemical name	CAS NR. EC-NO. Index number Registration number	Layout (Regulation (EC) No 1272/008)	Concentration (%)
isocyanate acid, polymethylenepolyphenylene ester, polymer with methyloxirane polymer with oxirane ether with 1,2,3- propaantriol	58228-05-0 Polymer	Acute Tox. 4, H332 Skin irrit. 2, H315 Eye irritant 2, H319 Resp. Sens. 1, H334 Skin-sensitive. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373	>=30-<60
Reaction mass of 4,4'- methylenediphenylenediisocyanate and o-(p- isocyanatebenzyl)phenylisocyanate	Not awarded 01-2119457015-45	Tox.4 acute; H332 Irrit.2 for skin; H315 Eye irritation 2; H319 Resp. Sens.1; H334 Skin-sensitive.1; H317 Carc.2; H351 STOT SE3; H335 STOT RE2; H373 Concentration limits: >= 5 %: Eye Irrit. 2, H319; >= 5 %: STOT SE 3, H335; >= 5 %: Skin Irrit. 2, H315; >= 0,1 %: Resp. Sens. 1, H334;	>=13-<30
isocyanic acid, polymethylenepolyphenylene ester	9016-89-9 Polymer	Tox.4 acute; H332 Irrit.2 for skin; H315 Eye irritation 2; H319 Resp. Sens.1; H334 Skin-sensitive.1; H317 Carc.2; H351 STOT SE3; H335 STOT RE2; H373 Concentration limits: >= 5 %: Eye Irrit. 2, H319; >= 5 %: STOT SE 3, H335; >= 5 %: Skin Irrit. 2, H315; >= 0,1 %: Resp. Sens. 1, H334;	>=13-<30
diphenylmethane diisocyanate	26447-40-5 247-714-0 615-005-00	Tox.4 acute; H332 Irrit.2 for skin; H315 Eye irritation 2; H319 Resp. Sens.1; H334 Skin-sensitive.1; H317 Carc.2; H351 STOT SE3; H335 STOT RE2; H373 Concentration limits: >= 5 %: Eye Irrit. 2, H319; >= 5 %: STOT SE 3, H335; >= 5 %: Skin Irrit. 2, H315; >= 0,1 %: Resp. Sens. 1, H334;	>=13-<30
isocyanic acid, polymethylene polyphenyl ester, polymer with 1n2- ethanediamine, methyloxirane and oxirane, sequential	312597-92-5 Polymer	Tox.4 acute; H332 Irrit.2 for skin; H315 Eye irritation 2; H319 Resp. Sens.1; H334 Skin-sensitive.1; H317 Carc.2; H351 STOT SE3; H335	>=0,1 <1

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		STOT RE2; H373	
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To the present knowledge of the supplier, no other components are present that are classified or contribute to the classification of the substance, so they do not need to be listed in this section.

Occupational exposure limits, if available, are listed in section 8.

For an explanation of abbreviations, see chapter 16.

SECTION 4: First aid measures

4.1 Description of first aid measures :

General advice:

Move away from the danger zone.
 Do not leave the victim unattended.
 Seek medical attention immediately if symptoms occur.
 Show this safety data sheet to your doctor.

Protection for first responders:

No initiative should be taken that involves individual risk or without proper training.
 Mouth-to-mouth resuscitation can be dangerous for the person helping the victim.
 Refer to section 8 for information on potential exposure.

Special personal protective equipment:

First responders should protect themselves and use appropriate protective clothing.

Eye contact:

Rinse immediately with plenty of water, including under the eyelids.
 Leave on for at least 15 minutes.
 Remove contact lenses if it is easy to do so.
 Protect the eye intact.
 Keep the eye open during flushing.
 Consult a doctor.

Inhalation :

If inhaled, remove person from contaminated area.
 Call a doctor or poison control centre immediately.
 Lying down and keeping warm.
 Keep airways clear.
 If breathing difficulties, administer oxygen.

Skin contact :

In case of contact, rinse skin immediately with soap and plenty of water.
 Remove clothing and footwear immediately.
 Call a doctor if irritation persists.
 An MDI study showed that a polyglycol-based skin cleanser (such as D-Tam™, PEG-400) or corn oil could be more effective than soap and water.

Ingestion :

Wipe thoroughly or rinse mouth with water.
 DO NOT induce vomiting unless ordered to do so by a doctor or poison control centre.
 Keep breathing apparatus clear.
 Stay calm.
 If someone is vomiting and lying on their back, turn them onto their side.
 Never give anything by mouth to an unconscious person.
 Take the victim to hospital immediately.
 Consult a doctor if symptoms persist.

4.2 Main acute and delayed symptoms and effects :

Eye contact:

Irritating to eyes.

Inhalation :

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LC50 (rat) : approx. 490 mg/m³ (4 hours) : using experimentally produced respirable aerosol with aerodynamic diameter <5micron.

This product is respiratory irritant and may cause respiratory sensitisation: repeated inhalation of vapours or aerosols at levels above the workplace exposure limit may cause respiratory sensitisation.

Symptoms may include irritation of the eyes, nose, throat and lungs, which may be accompanied by a dry throat, tightness in the chest and breathing difficulties.

Respiratory symptoms may not occur until several hours after exposure.

In sensitised individuals, a hyperreactive reaction to even a small concentration of MDI can occur.

Skin contact :

Irritating to skin.

May cause sensitisation by skin contact.

Animal studies have shown that respiratory sensitisation can be induced by skin contact with known respiratory sensitisers, including diisocyanates.

These results highlight the need to wear protective clothing, including gloves, when handling such chemicals or during maintenance operations.

Ingestion :

Low oral toxicity.

Ingestion may cause irritation of the gastrointestinal tract.

Signs / symptoms of overexposure

Symptoms:

Significant skin allergic reactions, bronchial spasm and anaphylactic shock.

Risks:

This product irritates the respiratory tract and is hypersensitive.

Potential respiratory effects: repeated inhalation of vapours or aerosols at levels above the workplace exposure limit may cause respiratory hypersensitivity.

Symptoms may include irritation of the eyes, nose, throat and lungs, which may be accompanied by a dry throat, tightness in the chest and breathing difficulties.

Respiratory symptoms may not occur until several hours after exposure.

A hyperreactive reaction to even the smallest concentration of MDI may develop in sensitised persons.

4.3 Indication of immediate medical attention and special treatment required :

Treatment :

Symptomatic treatment and supportive therapy as indicated.

After severe exposure, the patient should be kept under observation under medical supervision for at least 48 hours.

The first-aid procedure should be drawn up with the help of the responsible company doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media :

Suitable extinguishing agents :

Use extinguishing agents suitable for the local conditions and environment.

Foam

Carbon dioxide (CO₂)

Dry powder.

Unsuitable extinguishing agents :

Water can be used if no other remedy is available in abundance.

The reaction between water and hot isocyanate can be violent.

Prevent wash water from entering wastewater system, cool containers exposed to fire with water spray.

5.2 Special hazards arising from the substance or mixture

Prevent contaminated firewater from entering sewers or watercourses.

Pressure in sealed containers can increase under the influence of heat.

Inhaling breakdown products can cause health problems.

Hazardous combustion products:

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Combustion products include: carbon monoxide, methyl bromide, ethyl bromide, ethyl acetate and ethyl acetate, carbon dioxide, nitrogen oxides, hydrocarbons and HCN.

In extreme heat (over 500 degrees Celsius), aniline can be formed.

No hazardous combustion products are known.

5.3 Advice for firefighters :

Special protective equipment for firefighters :

Wear approved self-contained positive-pressure breathing apparatus in addition to standard firefighting equipment.

Clothing for firefighters (including helmets, protective boots and gloves) that comply with European standard EN 469 provide a basic level of protection against chemical accidents.

Specific extinguishing methods:

Spray water to cool containers/tanks.

Additional information:

Standard procedure for chemical fires.

The reaction with water to produce CO₂ gas can lead to a dangerous increase in pressure when contaminated containers are resealed.

Collect contaminated fire fighting water separately, do not discharge into the sewerage system.

Prevent firewater from contaminating surface water or the underground pipework.

Fire debris and contaminated fire fighting water should be disposed of according to local regulations.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures :

Personal precautions :

Immediately evacuate personnel to safe areas.

Use personal protective equipment.

If specific clothing is required to treat the spill, refer to section 8 for suitable and unsuitable materials.

Ensure adequate ventilation.

Keep people away from the spill/spill area and out of the wind.

Only qualified personnel with appropriate personal protective equipment should intervene.

See section 7 for additional precautions and advice on safe handling of the substance or mixture.

Never return spilt product to its original packaging for reuse.

Provide sufficient neutralising/absorbent material near the storage area.

Danger zones should be demarcated and marked with appropriate warning and safety signs.

Handle the recovered product in accordance with the section "Instructions for disposal".

See section 13 for disposal information.

6.2 Environmental precautions :

Environmental precautions :

Do not release the product uncontrolled into the environment.

The product must not contaminate groundwater.

The product must not enter the sewage system.

Avoid further spills or leaks, if safe to do so.

Notify local authorities if significant leaks cannot be contained.

In case of contamination of watercourses, lakes or sewers, inform the relevant authorities in accordance with local regulations.

6.3 Containment and cleaning methods and materials

Methods for cleaning up small leaks:

Contain spillages, absorb with non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal in accordance with local/national regulations (see section 13).

Thoroughly clean contaminated surface.

Sweep up or vacuum into suitable containers for disposal.

Neutralise small spills with disinfectant.

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The composition of disinfectants is given in section 16.

Remove and dispose of remnants.

Methods for cleaning up large spills:

If the product is in solid form : In case of spillage, collect the MDI flakes carefully.

Vacuum the area to remove all remaining dust particles.

If the product is in liquid form: remove with an inert absorbent (sand, silica gel, acid binder, universal binder, sawdust).

Leave to react for at least 30 minutes.

Scoop into fully opened containers for later decontamination.

Wash the spilt area with water.

Monitoring the level of MDI vapour in the atmosphere.

Store in suitable sealed containers for disposal.

6.4 Reference to other sections :

For personal protective equipment, see section 8.

For disposal considerations, see section 13.

The composition of disinfectants is given in section 16.

SECTION 7: Handling and storage :

7.1 Precautions for safe handling of the substance or mixture

Technical measures:

Make sure eye showers and safety showers are in the right place.

Safety showers are located close to workstations.

Local/total ventilation:

Use only with adequate ventilation.

Advice on safe use:

See section 8 for personal protective equipment.

Avoid aerosol formation.

Do not inhale vapours or spray mist.

Do not inhale fumes/dust.

Do not swallow.

Avoid contact with eyes, mouth and skin. Avoid contact with skin and clothing.

Avoid exposure - consult special instructions before use.

Do not eat, smoke or drink in the work area. Ensure adequate ventilation and/or air exchange in workplaces.

Keep the vessel closed when not in use.

Open drums carefully as the contents may be under pressure.

Dispose of rinse water according to local and national regulations.

Persons prone to skin sensitisation or asthma, allergies, chronic or recurrent respiratory diseases should not be used in processes involving this mixture.

The industrial use of aprotic polar solvents for cleaning can release hazardous primary aromatic amines.

Notes on protection against fire and explosion:

Usual precautions to protect against fire.

Hygiene measures:

Handle according to good hygiene practices and safety instructions.

Wash face, hands and exposed skin thoroughly after use.

Remove contaminated clothing and protective equipment before entering eating areas.

Do not eat, drink or smoke during use.

Contaminated workwear must remain at the workplace.

Wash hands before breaks and immediately after working with the product.

Wash hands before breaks and at the end of the working day.

7.2 Conditions for safe storage, including possible incompatibilities

Requirements for storage rooms and containers:

Store containers tightly closed in a dry, cool and dry place, well ventilated.

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Store in correctly labelled containers.
Follow the warnings on the label.
Protect against moisture.
Electrical installations and equipment must comply with technical safety standards.
Close opened containers carefully and store upright to avoid spillage.

Precautions for joint storage:

Refer to section 10 of this safety data sheet for incompatible materials.

Shelf life:

10 months.

Recommended storage:

15 - 25 °C

For more information on storage stability:

Stable under normal conditions.

7.3 Specific end use :

Special use:

No data available.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters :

Does not contain any substances with occupational exposure limit values.

Derived no-effect concentration level (DNEL) in accordance with Regulation (EC) No 1907/2006:

Substance name	End use	Exposure routes	Exposure time	Value
4,4'-diphenylmethane diisocyanate, oligomers	Employees	Inhalation	Long-term - systemic effects	0.05 mg/m ³
	Employees	Inhalation	Acute - systemic effects	0.1 mg/m ³
	Employees	Inhalation	Long-term - local effects	0.05 mg/m ³
	Employees	Inhalation	Acute - local effects	0.1 mg/m ³
	Employees	Skin	Acute - systemic effects	50 mg/kg bw/day
	Employees	Skin	Acute - local effects	28.7 mg/cm ²
	Consumers	Inhalation	Long-term - systemic effects	0.025 mg/m ³
	Consumers	Inhalation	Acute - systemic effects	0.05 mg/m ³
	Consumers	Inhalation	Long-term - local effects	0.025 mg/m ³
	Consumers	Inhalation	Acute - local effects	0.05 mg/m ³
	Consumers	Skin	Acute - systemic effects	25 mg/kg bw/day
	Consumers	Skin	Acute - local effects	17.2 mg/cm ²
	Consumers	Oral	Long-term - local effects	20 mg/kg body weight/day
4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanatodiphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylethylene)bis(oxy)]dipropanol and propane-1,2-diol	Employees	Inhalation	Long-term - local effects	0.05 mg/m ³
	Employees	Inhalation	Acute - local effects	0.1 mg/m ³
	Consumers	Inhalation	Long-term - local effects	0.025 mg/m ³
	Consumers	Inhalation	Acute - local effects	0.05 mg/m ³

Predicted no-effect concentration (PNEC) in accordance with Regulation (EC) No 1907/2006:

Substance name	Environmental compartment	Value
4,4'-diphenylmethane diisocyanate, oligomers	Freshwater	1 mg/l
	Seawater	0.1 mg/l
	Water treatment plant	1 mg/l
	Bottom	1 mg/kg dry weight (d.w.)

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4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanatodiphenylmethane, 1,1'-methylenebis(4isocyanatobenzene) homopolymer, [(methylethylene)bis(oxy)]dipropanol and propane-1,2-diol	Freshwater	1 mg/l
	Fresh water - intermittent	10 mg/l
	Seawater	0.1 mg/l
	Bottom	1 mg/kg dry weight (d.w.)
	Water treatment plant	1 mg/l

8.2 Exposure control measures Personal protective equipment:

Appropriate technical measures :

Personal protective equipment, including: suitable protective gloves, safety glasses with side shields and protective clothing.

The type of protective equipment should be chosen based on the concentration and quantity of the hazardous substance in the workplace.

Ensure that eye wash systems and safety showers are located close to the workplace.

Eye and face protection:

Use eye protection that meets an approved standard as soon as possible after use.

Where a risk assessment shows that exposure to splashes of liquids, fine spray particles or dust should be avoided.

Safety goggles against chemical splashes.

Always wear safety glasses if there is a risk of unintended eye contact.

Be sure to comply with all applicable local and/or national requirements when choosing protective measures for a specific task.

Ensure that the locations of eyewash stations and safety showers are close to workstations.

Skin protection

Hand protection :

Wear protective gloves when working with freshly prepared polyurethane to avoid contact with residual products that can be dangerous if they come into contact with the skin.

Use chemical-resistant gloves complying with standard EN374: protective gloves against chemicals and micro-organisms.

Examples of glove materials that provide sufficient protection are :

butyl rubber, chlorinated polyethylene, polyethylene, laminated gloves made of copolymers of ethylene and vinyl alcohols ("EVOH"), polychloroprene (neoprene), nitrile-butadiene rubber ("NBR" or "nitrile"), polyvinyl chloride ("PVC" or "vinyl"), fluorochemicals, etc. elastomer (Viton).

For prolonged or frequent contact, a protective glove of class 5 or higher is recommended (breakthrough time greater than 240 minutes according to standard EN374).

For short-term contact, a protective glove of class 3 or higher (breakthrough time greater than 60 minutes according to standard EN374) is recommended.

Note: When selecting a specific glove for a particular application and duration of use in a workplace, all factors required at the workplace must also be taken into account, including - but not limited to - other chemicals that may be handled, physical requirements (cut and puncture protection, dexterity, thermal protection) and any instructions/specifications from the glove supplier.

The protective gloves chosen must meet the specifications of Directive 2016/425 (EU) and its derived standard EN 374.

When using aprotic polar solvents for cleaning: Butyl rubber (0.7 mm), Nitrile rubber (0.4 mm), Chloroprene (0.5 mm).

Body protection :

Waterproof clothing.

Choose personal protection according to the amount and concentration of the hazardous substance in the workplace.

Recommended: Overall (preferably thick cotton) or disposable coveralls Tyvek-Pro Tech 'C', Tyvek-Pro Tech 'F'.

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Respiratory protection :

Respiratory protection: Wear respiratory protection equipped with a self-contained breathing apparatus, air purifier or air supply, perfectly adjusted and in accordance with an applicable standard if a risk assessment indicates it is necessary.

The choice of respiratory protection should be based on the expected or known exposure levels, the hazards of the product and the safe use limits of the selected respiratory protection.

In emergency, non-routine and unknown exposure situations, including entry into confined spaces, a NIOSH-certified self-contained breathing apparatus (SCBA) with full face mask or a supplied-air respirator with full face mask and self-contained air supply must be used.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties :

Physical state:	liquid.
Colour:	brown
Odour:	moderately musty
Odour threshold:	Not available.
PH:	not applicable.
Melting point/freezing point:	not available.
Initial boiling point and boiling range :	Not available.
Flash point:	185 °C Method: ASTM D 92, open cup
Evaporation rate:	Not known.
Flammability (solid, gas) :	Not available.
Burn time:	not applicable.
Combustion rate:	not applicable.
Upper limits/Flammability or explosion limits :	Non-explosive.
Vapour pressure:	not known.
Vapour density:	< 0.00001 hPa (25 °C): 8.5
Relative density:	1.22 g/cm ³ (25°C)
Solubility.	
Solubility in water :	Decomposes on contact with water (20°C).
Partition coefficient n-octanol/water:	Not applicable. Reacts with water and octanol.
Self-ignition temperature:	> 600 °C
Decomposition temperature:	Not available.
Viscosity :	Dynamic: 140 mPa,s (25°C)
Explosive properties:	Not available.
Oxidising properties :	Not available.

9.2 Other information

Data not available.

SECTION 10: Stability and reactivity

10.1 Reactivity :

No hazardous reactions known under normal conditions of use.

10.2 Chemical stability :

The product is stable under normal processing and storage conditions.

10.3 Possible hazardous reactions :

Reaction with water (humidity) produces CO₂ gas.

Exothermic reaction with products containing active hydrogen groups.

The reaction gradually becomes more vigorous and can be violent at higher temperatures if the miscibility of the reaction components is good or if the reaction is supported by an agitator.

MDI is insoluble in and heavier than water, sinking to the bottom but reacting slowly on contact with water.

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On contact with water, a layer of solid, water-insoluble polyurea forms, giving off carbon dioxide gas.

10.4 Conditions to avoid

Extreme temperatures and direct sunlight.

Prolonged exposure to air or moisture.

10.5 Incompatible materials :

Acids, Amines, Bases, Metals, Water.

10.6 Hazardous decomposition products :

Combustion products include: carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons and HCN.
In extreme heat (over 500 degrees Celsius), aniline can be formed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects :

Acute toxicity

Constituents:

4,4'-methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylene)bis(oxy)]dipropanol and propane-1,2-diol:

Acute oral toxicity

LD50 (rat, male):> 10 000 mg/kg

Method: OECD guideline 401

diphenylmethane-4,4'-diisocyanate, oligomers:

Acute oral toxicity:

LD50 (rat, female):>5,000 mg/kg

Method: OECD guideline 425

Acute toxicity by inhalation -

Product

Assessment: The substance or mixture is not toxic by inhalation as defined by the Dangerous Goods Regulations.

Notes:

The methods used to generate exposure concentrations in animal studies are performed under extreme laboratory conditions that are not representative of the conditions of exposure to the product in the workplace, during storage, during transport or other intended use in the market, due to the very low vapour pressure.

Consequently, these test results cannot be used for the hazard classification of the product.

Therefore, an estimate of acute toxicity is calculated based on the respective weight of all available data and expert opinion, and is used to justify a modified acute inhalation toxicity classification.

Estimated acute toxicity: 1.5 mg/l

Exposure time: 4 hours

Test atmosphere: dust/mist

Method: Calculation method

Constituents :

4,4'-methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylene)bis(oxy)]dipropanol and propane-1,2-diol:

Acute dermal toxicity

LD50 (Rabbit, male and female):>9,400 mg/kg

Method: OECD Directive 402

Acute toxicity (other routes) of Drivers):

No data available.

Skin corrosion/skin irritation

Constituents :

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4,4'-methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylene)bis(oxy)]dipropanol and propane-1,2-diol:

Species: Rabbit

Assessment : Irritating to the skin. Method :
OECD Directive 404

diphenylmethane-4,4'-diisocyanate, oligomers:

Species: Rabbit

Method: OECD Guideline 404 Result: Irritating to skin.

Serious eye damage/eye irritation

Constituents :

4,4'-methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylene)bis(oxy)]dipropanol and propane-1,2-diol:

Species: Rabbit

Assessment: Mild eye irritant Method:
OECD Directive 405

Results: Based on the effect observed in humans

diphenylmethane-4,4'-diisocyanate, oligomers:

Species: Rabbit

Method: OECD Guideline 405 Result:

Slight eye irritation

Respiratory or skin sensitisation

Constituents :

4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylethylene)bis(oxy)]dipropanol and propane-1,2-diol:

Route of exposure: Respiratory

Species: Rat

Result : May cause sensitisation by inhalation.

Mode of exposure: skin

Result : May cause sensitisation by skin contact.

diphenylmethane-4,4'-diisocyanate, oligomers:

Method of exposure: skin

Species : Guinea pig

Method: OECD Directive 406

Result : May cause sensitisation by skin contact.

Route of exposure: Respiratory

Species: Guinea pig

Result : May cause sensitisation by inhalation.

Constituents :

4,4'-methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylene)bis(oxy)]dipropanol and propane-1,2-diol:

Assessment : May cause sensitisation by skin contact, May cause sensitisation by inhalation.

Mutagenicity in gametes

Constituents :

4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylethylene)bis(oxy)]dipropanol and propane-1,2-diol:

In vitro genotoxicity

Metabolic activation: with or without activation: metabolic

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Method: OECD guideline 471
Result: Not classified due to unclear data.

GLP: yes

diphenylmethane-4,4'-diisocyanate, oligomers:

In vitro genotoxicity

Concentration: approx. 50 ug/plate
Metabolic activation: with or without metabolic activation
Method: OECD guideline 471
Result: negative

Constituents :

4,4'-methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylene)bis(oxy)]dipropanol and propane-1,2-diol:

In vivo genotoxicity

Mode of application: Inhalation
Result: Not classified due to unclear data.
Route of administration : Inhalation
Exposure time : 3 w
Dose : 113 mg/m³
Method: OECD guideline 474
Result: negative

diphenylmethane-4,4'-diisocyanate, oligomers:

In vivo genotoxicity

Mutagenicity in germ cells - Evaluation
Method of administration: Inhalation
Exposure time: 3 w
Dose: 118 mg/m³
Method: OECD guideline 474
Result: negative
Data not available

Carcinogenicity

Product :

Notes: Rats were placed in an atmosphere loaded with an aerosol of polymeric MDI for 2 years, which resulted in chronic lung irritation at high concentrations.

Only at the highest concentration was there a significant frequency of benign tumours (adenomas) and malignant tumours (adenocarcinomas) in the lungs.

There was no lung tumour at 1mg/m³ and no effect at 0.2 mg/m³.

Overall, the frequency of incidence of tumours, both benign and malignant, as well as the number of animals with tumours, was not different from controls.

The increased incidence of lung tumours was associated with prolonged respiratory irritation and concomitant accumulation of yellow products in the lungs during the study.

Without long-term exposure to high concentrations leading to chronic irritation and damage to the lungs, tumour formation is extremely unlikely.

Notes: The industrial use of aprotic polar solvents for cleaning can release dangerous primary aromatic amines. Based on animal studies, primary aromatic amines are considered potentially carcinogenic to humans. Some of these chemicals are known human carcinogens.

No adverse effects on human health are expected if the recommended personal protective equipment and hygiene measures are applied.

Constituents:

4,4'-diphenylmethane diisocyanate, oligomers:

Carcinogenicity - Evaluation

Limited evidence of carcinogenic effects in studies conducted on animals

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Reproductive toxicity

Constituents :

4,4'-methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylene)bis(oxy)]dipropanol and propane-1,2-diol:

Effects on fertility

Species: Rat, male and female route

Method: OECD guideline 414

Comments: No side effects have been reported.

Constituents :

4,4'-methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylene)bis(oxy)]dipropanol and propane-1,2-diol:

Effect on Species: rats, male and female foetal development

Mode of application : Inhalation

General maternal toxicity: Dose with no observed toxic effect: 4 mg/m³.

Method: OECD guideline 414

Results: No teratogenic effect.

diphenylmethane-4,4'-diisocyanate, oligomers:

Species : Rat, male and female

Mode of application : Inhalation

Method: OECD guideline 414

Results: No teratogenic effect.

Reproductive toxicity

Data not available- Evaluation

Specific target organ toxicity - single exposure

Constituents :

4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylethylene)bis(oxy)]dipropanol and propane-1,2-diol:

Route of exposure: Inhalation

Target organs: respiratory system

Assessment: May irritate respiratory system.

diphenylmethane-4,4'-diisocyanate, oligomers:

Route of exposure: Inhalation

Target organs: respiratory system

Assessment: May irritate the respiratory tract.

Specific target organ toxicity - repeated exposure

Constituents:

4,4'-diphenylmethane diisocyanate, oligomers:

Route of exposure: Inhalation

Target organs: respiratory system

Assessment: Suspected serious injury to organs in case of repeated or prolonged exposure.

Repeated-dose toxicity

Constituents :

4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylethylene)bis(oxy)]dipropanol and propane-1,2-diol:

Species: Rat, male and female

NOEC: 0.2

Test atmosphere: dust/fog

Exposure duration: 2 years

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Number of exposures: 5 d
Method: OECD guideline 453
diphenylmethane-4,4'-diisocyanate, oligomers:

Species: Rat, male and female

NOEC: 0.2

Test atmosphere: dust/fog

Exposure duration: 2 years

Number of exposures: 5 d

Method: OECD guideline 453

Repeated-dose toxicity - Evaluation

Data not available

Aspiration toxicity

Data not available

11.2 Information on other hazards

Endocrine-disrupting properties

Product:

Assessment:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Experience with human exposure :

General information:

Data not available

Inhalation :

No data available

Skin contact:

No data available

Eye contact:

No data available

Ingestion :

Data not available

Toxicology, metabolism, distribution:

Data not available

Neurological effects:

Data not available

Additional information

Ingestion :

Data not available

SECTION 12: Ecological information

12.1 Toxicity :

Constituents :

4,4'-methylenediphenyl diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate-diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylene)bis(oxy)]dipropanol and propane-1,2-diol:

Toxicity for fish

LC50 (Brachydanio rerio (zebrafish))> 1 000 mg/l

Exposure time: 96 hours

Type of test: Static test

Test substance: Fresh water

Method: OECD Directive 203

Toxicity to Daphnia and other aquatic organisms other aquatic invertebrates

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EC50 (Daphnia magna (Large Daphnia))>1,000 mg/l

Exposure time: 24 hours

Type of test: Static test

Test substance: Fresh water

Method: OECD guideline 202

Toxicity to aquatic plants

EC50 (Desmodesmus subspicatus (green algae))> 1 alg/ 640 mg/l

Exposure time: 72 hours

Type of test: Static test

Test substance: Fresh water

Method: OECD Directive 201

Toxicity for EC50 (activated sludge)> 100 mg/l

micro-organisms

Exposure time: 3 hours

Type of test: Static test

Substance: Fresh water

Method: OECD guideline 209

Toxicity to fish

(Chronic toxicity)

NOEC: > 10000 mg/kg

Exposure time: 112 d

Species : Oncorhynchus mykiss (Rainbow trout)

Type of test : Static test

Test substance: Fresh water

Toxicity to daphnia and other aquatic invertebrates (chronic toxicity)

NOEC:>= 10 mg/l

Exposure time: 21 d

Species: Daphnia magna (Large Daphnia)

Type of test: Semistatic test

Test substance: Fresh water

Method: OECD 211

NOEC:> 10 000 mg/l

Duration of exposure: 112 d

Species: Daphnia magna (Large Daphnia)

Type of test: Static test

Test substance: Fresh water

Toxicity to soil-dwelling organisms :

GLP: yes

Notes: see user-created text

EC50: > 1,000 mg/kg

Exposure time: 336 h

Species: Eisenia fetida (earthworm)

Method: OECD guideline 207

diphenylmethane-4,4'-diisocyanate, oligomers:

Toxicity for fish

LC50 (Brachydanio rerio (zebrafish))> 1,000 mg/l

Exposure time: 96 hours

Type of test: Static test

Test substance: Fresh water

Method: OECD Directive 203

Toxicity to Daphnia and other aquatic organisms other aquatic invertebrates

EC50 (Daphnia magna (Large Daphnia))>1,000 mg/l

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Exposure time: 24 hours
Type of test: Static test
Test substance: Fresh water
Method: OECD guideline 202

Toxicity to algae/plants aquatic:

EC50 (Desmodesmus subspicatus (green algae))> 1,640 mg/l

Exposure time: 72 hours
Type of test: Static test
Test substance: Fresh water
Method: OECD Directive 201

Toxicity to micro-organisms

EC50 (activated sludge)> 100 mg/l

Exposure time: 3 h
Type of test: Static test
Substance: Fresh water
Method: OECD guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NOEC:>= 10 mg/l
Exposure time: 21 d
Species: Brachydanio rerio (zebrafish)
Type of test: Semi-static test
Test substance: Fresh water
Method: OECD guideline 211

Toxicity to soil-dwelling organisms

EC50: >1,000 mg/kg
Exposure time: 336 h
Species: Eisenia fetida (earthworm)
Method: OECD guideline 207

12.2 Persistence and degradability :

Constituents:

4,4'-methylenebis(phenyl) diisocyanate, oligomeric reaction products with butane-1,3-diol, 2,4'-diisocyanate diphenylmethane, 1,1'-methylenebis(4-isocyanatobenzene) homopolymer, [(methylene)bis(oxy)]dipropanol and propane-1,2-diol:

Biodegradability

Inoculum: household sludge
Concentration: 30 mg/l
Result: Non-biodegradable
Biodegradation: 0
Exposure time: 28 d
Method: OECD Directive 302 C
diphenylmethane-4,4'-diisocyanate, oligomers:

Biodegradability

Inoculum: household sludge
Concentration: 30 mg/l
Result: Non-biodegradable
Biodegradation: 0
Exposure time: 28 d
Method: OECD Directive 302 C

12.3 Bioaccumulation :

Constituents:

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Bioaccumulation

Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 200

Comments: Bioaccumulation is unlikely.

Species: Oncorhynchus mykiss (Rainbow trout)

GLP: yes

Comments: Does not bioaccumulate.

Bioconcentration factor (BCF): 439

GLP: no

Comments: Bioaccumulation is unlikely.

Notes: see user-created text

diphenylmethane-4,4'-diisocyanate, oligomers:

Bioaccumulation

Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 200

Comments: Bioaccumulation is unlikely.

Partition coefficient n-octanol/water: log Pow: 8,56 (20°C)

12.4 Mobility in soil :

No further information is available.

12.5 Results of PBT and vPvB assessment

Product:

Evaluation This substance or mixture does not contain any constituents considered persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or more.

12.6 Hormone-disrupting properties

Product:

Assessment:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

12.7 Other side effects :

No data available.

SECTION 13: Disposal instructions

13.1 Waste treatment methods :

Product:

Recommendations for disposal of products :

Do not empty into the drain.

Do not contaminate ponds, waterways or ditches with chemical residues or used packaging.

Send to a company authorised to process waste.

Contaminated packaging

Empty the leftovers.

Dispose of as unused product.

Do not reuse empty packaging.

SECTION 14: Information on transport

14.1 UN number

Not classified as hazardous according to transport regulations.

14.2 Proper shipping name according to UN Model Regulations

Not applicable.

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14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental risks

Not applicable.

14.6 Special precautions for the user

Notes:

The transport of dangerous goods, including loading and unloading, must be carried out in accordance with regulations by personnel who have received the necessary training;

The transport classification(s) given herein are for information only, and based solely on the properties of the unpackaged material as described in this safety data sheet. Transport classifications may vary in terms of mode of transport, size of packaging and variations in regional or national regulations.

14.7 Sea transport in bulk in accordance with IMO instruments

Not applicable for product, as delivered.

SECTION 15: Statutory information

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

REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

REACH - Candidate lists of substances of very high concern for authorisation (Article 59).

This product contains no substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Limiting conditions for the following inputs should be taken into account:

Number on list 3

4,4'-methylenediphenyl diisocyanate (List Nos 74, 56)

o-(piscyanatobenzyl)isocyanate (List Nos 74, 56)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Occupational diseases (R-461-3, France)

Not applicable

Other regulations:

Take into account Directive 92/85/EEC on maternity protection or stricter national regulations, if applicable.

Take into account Directive 94/33/EC on the protection of young people at work or stricter national regulations, if applicable.

The components of this product are listed in the following inventories:

DSL	All ingredients in this product are on the Canadian DSL list.
AIIC	Listed or in accordance with inventory
NZIoC	Listed or in accordance with the inventory
ENCS	Listed or in line with the inventory
KECI	Listed or in accordance with the inventory
PICCS	Listed or in accordance with the inventory
IECSC	Listed or in accordance with the inventory
TCSI	Listed or in accordance with the inventory
TSCA	All substances are listed as active in the Toxic Substances Control Act (TSCA) inventory.

Inventory:

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIO (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA)).

15.2 Chemical safety assessment :

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The chemical risk assessment of the substances in this product is complete or not applicable.

SECTION 16: Other information

Abbreviations and acronyms :

Acute Tox: Acute toxicity
Carc: Carcinogenicity
Eye Irrit: Eye irritation
Resp. Sens. : Respiratory sensitisation
Skin Irrit. : Skin Irritation
Skin Sens. : Skin sensitisation
STOT RE : Toxicity specific to certain target organs - repeated exposure
STOT SE: Specific target organ toxicity - single exposure

Full text of the classifications [CLP/GHS].

H315 Causes skin irritation.
H317 May cause skin allergy.
H319 Causes severe eye irritation
H332 Harmful by inhalation.
H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
H335 May irritate the respiratory tract.
H351 Suspected of causing cancer.
H373 Danger of serious damage to organs through repeated or prolonged exposure. Danger of serious damage to organs through repeated or prolonged exposure by inhalation.

Procedure for determining classification according to Regulation (EC) No 1272/2008 [CLP/GHS].

Classification	Comment
Acute toxicity 4, H332	Calculation method
Skin irritation. 2, H315	Calculation method
Eye irritation. 2, H319	Calculation method
resp. Sens. 1, H334	Calculation method
Skin-sensitive. 1, H317	Calculation method
Carc. 2, H351	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method

Full text of statements H

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes severe eye irritation.
H332 Harmful by inhalation.
H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
H335i May cause respiratory tract irritation.
H351 May cause cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

Additional information

Liquid disinfectants (percentage by weight or volume):

Disinfectant 1: * - sodium carbonate: 5 - 10% * - liquid detergent: 0.2 - 2% * - water: make up to 100%.

Disinfectant 2: * - concentrated ammonia solution: 3 - 8% * - liquid detergent: 0.2 - 2% * - water: top up to 100%.

Decontaminant 1 reacts more slowly with diisocyanates, but is more environmentally friendly than decontaminant 2.

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Disinfectant 2 contains ammonia. Ammonia poses health risks (see supplier's safety information).

Data sources :

ISOPA recommendations for the safe loading/unloading, transport and storage of TDI and MDI, Ref.12-96-PSC-0031-GUIDL-E.

SPI PMDI User Guidelines for Chemical Protective Clothing Selection.

The references of the methods used in the chapter "Physical and chemical properties" are given in Annex V, Part A of Commission Directive 92/69/EEC of 31 July 1992, seventeenth adaptation to technical progress of Council Directive 67/548/EEC ().

Other information :

The information and recommendations in this publication are based on our general experience and are provided in good faith to the best of our knowledge, BUT nothing herein shall be construed as a warranty or representation of any kind, express, implied or otherwise.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE AND VERIFY THE ACCURACY, APPROPRIATENESS AND APPLICABILITY OF THIS INFORMATION AND RECOMMENDATIONS, AND THE SUITABILITY AND APPROPRIATENESS OF EACH PRODUCT FOR A PARTICULAR OR SPECIFIC PURPOSE. THE PRODUCTS LISTED MAY PRESENT UNKNOWN RISKS AND SHOULD BE USED WITH CAUTION. ALTHOUGH SOME RISKS ARE DESCRIBED IN THIS PUBLICATION, THERE IS NO GUARANTEE THAT THESE RISKS ALONE WILL NOT OCCUR.

The risks, toxicity and behaviour of the products may be different when used with other materials, and depend on manufacturing conditions and other processes.

These risks, toxicity and behaviour should be identified by the user and brought to the attention of the persons or authorities responsible for transport or handling, treatment or processing, as well as all end-users.