



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 WHITE HIGH SOLIDS

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 WHITE HIGH SOLIDS**
Product code(s) 45504HS, 45505HS, 45555HS

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
3.6	carcinogenicity	2	Carc. 2	H351
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

For full text of abbreviations: see SECTION 16.

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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.
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.
H351	Suspected of causing 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.
P284	In case of inadequate ventilation wear respiratory protection.
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).
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

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- Hazardous ingredients for labelling

Methylenediphenyl diisocyanate, 4,4'-methylenediphenyl diisocyanate, 1-isocyanato-2-((4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl)-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene, methylenediphenyl diisocyanate

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance 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 26447-40-5	30 - < 60	Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 Carc. 2 / H351 STOT SE 3 / H335 STOT RE 2 / H373
Titanium dioxide (excluding nanoparticle)	CAS No 13463-67-7	30 - < 60	Carc. 2 / H351
4,4'-methylenediphenyl diisocyanate	CAS No 101-68-8	10 - < 30	Acute Tox. 2 / H330 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 Carc. 2 / H351 STOT SE 3 / H335 STOT RE 2 / H373
xylene	CAS No 1330-20-7	5 - < 10	Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Asp. Tox. 1 / H304

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Name of substance	Identifier	Wt%	Classification acc. to GHS
methylenediphenyl diisocyanate	CAS No 26447-40-5	5 – < 10	Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 Carc. 2 / H351 STOT SE 3 / H335 STOT RE 2 / H373
1-isocyanato-2-((4-isocyanato-3-((4-isocyanatophenyl)methyl]phenyl)methyl)-4-((4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-((4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-((4-isocyanatophenyl)methyl]benzene	CAS No 9016-87-9	1 – < 5	Acute Tox. 2 / H330
ethyl benzene	CAS No 100-41-4	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H332 STOT RE 2 / H373 Asp. Tox. 1 / H304
benzene	CAS No 71-43-2	< 0.1	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Muta. 1B / H340 Carc. 1A / H350 STOT RE 1 / H372 Asp. Tox. 1 / H304
toluene	CAS No 108-88-3	< 0.1	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Repr. 2 / H361d STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304

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.

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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

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive 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_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

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.

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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.

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 feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

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

- Flammability hazards

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

- Ventilation requirements

Keep any substance that emits harmful 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.

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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/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
CA	ethylbenzene	100-41-4	OEL (AB)	100	434	125	543				OHS Code
CA	ethylbenzene	100-41-4	OEL (BC)	20							"BC Regulation"
CA	ethylbenzene	100-41-4	OEL (ON-MoL)	20							MoL
CA	ethylbenzene	100-41-4	PEV/VEA	20							Regulation OHS
CA	diphenylmethane-4,4'-diisocyanate (methylbis(phenylisocyanate)) (4,4'-MDI)	101-68-8	OEL (AB)	0.005	0.05						OHS Code
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	toluene	108-88-3	OEL (BC)	20							"BC Regulation"
CA	toluene	108-88-3	OEL (ON-MoL)	20							MoL
CA	toluene	108-88-3	PEV/VEA	20							Regulation OHS
CA	toluene (toluol)	108-88-3	OEL (AB)	50	188					H	OHS Code
CA	xylene	1330-20-7	OEL (AB)	100	434	150	651				OHS Code
CA	xylene	1330-20-7	OEL (BC)	100		150					"BC Regulation"



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Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
CA	xylene	1330-20-7	OEL (ON-MoL)	100		150					MoL
CA	xylene	1330-20-7	PEV/VEA	100	434	150	651				Regulation OHS
CA	titanium dioxide	13463-67-7	OEL (AB)		10						OHS Code
CA	titanium dioxide	13463-67-7	OEL (ON-MoL)		10						MoL
CA	titanium dioxide	13463-67-7	OEL (BC)		10					dust	"BC Regulation"
CA	titanium dioxide	13463-67-7	PEV/VEA		10					dust, noAsb_less1Sil	Regulation OHS
CA	titanium dioxide	13463-67-7	OEL (BC)		3					r	"BC Regulation"
CA	benzene	71-43-2	OEL (AB)	0.5	1.6	2.5	8			H	OHS Code
CA	benzene	71-43-2	OEL (BC)	0.5		2.5				H	"BC Regulation"
CA	benzene	71-43-2	OEL (ON)	0.5		2.5				H	Regulation 833
CA	benzene	71-43-2	OEL (ON-MoL)	0.5		2.5				H	MoL
CA	benzene	71-43-2	PEV/VEA	0.5		2.5				H	Regulation OHS
CA	Polymethylene polyphenyl isocyanate (PAPI)	9016-87-9	OEL (AB)	0.005	0.07						OHS Code

Notation

- Ceiling-C ceiling value is a limit value above which exposure should not occur
- dust as dust
- H absorbed through the skin
- noAsb_less1S contains no asbestos and less than 1% free crystalline silica
- il
- r respirable fraction
- STEL 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)



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Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
4,4'-methylenediphenyl diisocyanate	101-68-8	DNEL	0.05 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
4,4'-methylenediphenyl diisocyanate	101-68-8	DNEL	0.1 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
xylene	1330-20-7	DNEL	221 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
xylene	1330-20-7	DNEL	442 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
xylene	1330-20-7	DNEL	221 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
xylene	1330-20-7	DNEL	442 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
xylene	1330-20-7	DNEL	212 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1-isocyanato-2-((4-isocyanato-3-((4-isocyanatophenyl)methyl)phenyl)methyl)-4-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-2-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-4-((4-isocyanatophenyl)methyl)benzene	9016-87-9	DNEL	0.05 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
1-isocyanato-2-((4-isocyanato-3-((4-isocyanatophenyl)methyl)phenyl)methyl)-4-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-2-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-4-((4-isocyanatophenyl)methyl)benzene	9016-87-9	DNEL	0.1 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
ethyl benzene	100-41-4	DNEL	77 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
ethyl benzene	100-41-4	DNEL	293 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
ethyl benzene	100-41-4	DNEL	180 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
toluene	108-88-3	DNEL	192 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
toluene	108-88-3	DNEL	384 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
toluene	108-88-3	DNEL	192 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects



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Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
toluene	108-88-3	DNEL	384 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
toluene	108-88-3	DNEL	384 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic 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)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	freshwater	short-term (single instance)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	marine water	short-term (single instance)
xylene	1330-20-7	PNEC	6.58 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
xylene	1330-20-7	PNEC	2.31 mg/kg	terrestrial organisms	soil	short-term (single instance)
1-isocyanato-2-((4-isocyanato-3-((4-isocyanatophenyl)methyl)phenyl)methyl)-4-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-2-((4-isocyanato-2-((4-isocyanatophenyl)methyl)benzene; 1-isocyanato-4-((4-isocyanatophenyl)methyl)benzene	9016-87-9	PNEC	1 mg/l	aquatic organisms	freshwater	short-term (single instance)

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1-isocyanato-2-({4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl)-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene	9016-87-9	PNEC	0.1 mg/l	aquatic organisms	marine water	short-term (single instance)
1-isocyanato-2-({4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl)-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene	9016-87-9	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1-isocyanato-2-({4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl)methyl)-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene	9016-87-9	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethyl benzene	100-41-4	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethyl benzene	100-41-4	PNEC	0.01 mg/l	aquatic organisms	marine water	short-term (single instance)
ethyl benzene	100-41-4	PNEC	9.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethyl benzene	100-41-4	PNEC	13.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethyl benzene	100-41-4	PNEC	1.37 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethyl benzene	100-41-4	PNEC	2.68 mg/kg	terrestrial organisms	soil	short-term (single instance)
toluene	108-88-3	PNEC	0.68 mg/l	aquatic organisms	freshwater	short-term (single instance)

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toluene	108-88-3	PNEC	0.68 mg/l	aquatic organisms	marine water	short-term (single instance)
toluene	108-88-3	PNEC	13.61 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
toluene	108-88-3	PNEC	16.39 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
toluene	108-88-3	PNEC	16.39 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
toluene	108-88-3	PNEC	2.89 mg/kg	terrestrial organisms	soil	short-term (single instance)
benzene	71-43-2	PNEC	1.9 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzene	71-43-2	PNEC	1.9 mg/l	aquatic organisms	marine water	short-term (single instance)
benzene	71-43-2	PNEC	39 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzene	71-43-2	PNEC	33 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
benzene	71-43-2	PNEC	33 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
benzene	71-43-2	PNEC	4.8 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

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

- Other protection measures

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

Respiratory protection

In case of inadequate ventilation wear respiratory protection.



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Environmental exposure controls

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

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	136.1 °C at 1,013 mbar
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	1.1 vol% - 7 vol%
Flash point	23 °C at 1,013 hPa
Auto-ignition temperature	430 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapor pressure	0.207 PSI at 85 °F
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Density and/or relative density

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

Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	there is no additional information
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Other safety characteristics

Solid content	41 %
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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

10.6 Hazardous decomposition products

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

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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 >7.298 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
xylene	1330-20-7	dermal	1,100 mg/kg
xylene	1330-20-7	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
ethyl benzene	100-41-4	inhalation: vapour	11 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

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

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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

Shall not be classified as presenting an aspiration hazard.

12 Ecological information

12.1 Toxicity

Harmful to aquatic life.

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
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
xylene	1330-20-7	LC50	8.4 mg/l	fish	96 h
xylene	1330-20-7	EC50	4.9 mg/l	algae	72 h
xylene	1330-20-7	ErC50	4.7 mg/l	algae	72 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
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
ethyl benzene	100-41-4	LC50	7 mg/l	fish	24 h
ethyl benzene	100-41-4	EC50	2.4 mg/l	aquatic invertebrates	48 h

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Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
toluene	108-88-3	LC50	5.5 mg/l	fish	96 h
toluene	108-88-3	EC50	84 mg/l	microorganisms	24 h
benzene	71-43-2	LC50	5.3 mg/l	fish	96 h
benzene	71-43-2	EC50	10 mg/l	aquatic invertebrates	24 h
benzene	71-43-2	ErC50	100 mg/l	algae	72 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

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.

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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, xylene

14.3 Transport hazard class(es)

UN RTDG	3 (6.1)
IMDG-Code	3 (6.1)
ICAO-TI	3 (6.1)

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)
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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

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
ethyl benzene	100-41-4		1986-12-31
benzene	71-43-2		1986-12-31
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
4,4'-methylenediphenyl diisocyanate	101-68-8		1986-12-31



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Toxics Release Inventory: Specific Toxic Chemical Listings

Name of substance	CAS No	Remarks	Effective date
toluene	108-88-3		1986-12-31
xylene	1330-20-7		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)
ethyl benzene	100-41-4		1 2 3	1000 (454)
benzene	71-43-2	a	1 2 3 4	10 (4,54)
4,4'-methylenediphenyl diisocyanate	101-68-8		3	5000 (2270)
toluene	108-88-3		1 2 3 4	1000 (454)
xylene	1330-20-7		1 3 4	100 (45,4)

Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
- 2 "2" indicates that the source is section 307(a) of the Clean Water Act
- 3 "3" indicates that the source is section 112 of the Clean Air Act
- 4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)
- a Benzene was already a CERCLA hazardous substance prior to the CAA Amendments of 1990 and received an adjusted 10-pound RQ based on potential carcinogenicity in an August 14, 1989, final rule (54 FR 33418). The CAA Amendments specify that "benzene (including benzene from gasoline)" is a hazardous air pollutant and, thus, a CERCLA hazardous substance.

Right to Know Hazardous Substance List

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

Name of substance	CAS No	Functionality	Authoritative Lists
Methylenediphenyl diisocyanate	26447-40-5		EC Annex VI Resp. Sens. - Cat. 1 Hazard Traits identified by DTSC
Titanium dioxide (excluding nanoparticle)	13463-67-7		IARC Carcinogens - 2B Prop 65
4,4'-methylenediphenyl diisocyanate	101-68-8		CA TACs EC Annex VI Resp. Sens. - Cat. 1 Hazard Traits identified by DTSC IRIS Neurotoxicants OEHA RELS



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Name of substance	CAS No	Functionality	Authoritative Lists
xylene	1330-20-7		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report IRIS Neurotoxicants OEHHA RELs
methylenediphenyl diisocyanate	26447-40-5		EC Annex VI Resp. Sens. - Cat. 1 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
ethyl benzene	100-41-4		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(c) IARC Carcinogens - 2B OEHHA RELs Prop 65
benzene	71-43-2		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(c) EC Annex VI CMRs - Cat. 1A EC Annex VI CMRs - Cat. 1B IARC Carcinogens - 1 IRIS Carcinogens - A NTP 13th RoC - known OEHHA RELs Prop 65
toluene	108-88-3		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(c) IRIS Neurotoxicants OEHHA RELs Prop 65

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
ethyl benzene	100-41-4				0.1 %
methylenediphenyl diisocyanate		1050			1.0 %
benzene	71-43-2				1.0 %
4,4'-methylenediphenyl diisocyanate		1050			1.0 %
toluene	108-88-3				1.0 %
xylene	1330-20-7				1.0 %



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Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Methylenediphenyl diisocyanate		1050			1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
ethyl benzene	100-41-4	A, O	
Titanium dioxide (excluding nanoparticle)	13463-67-7	A	
methylenediphenyl diisocyanate		N	
4,4'-methylenediphenyl diisocyanate	101-68-8	A, N, O	
xylene	1330-20-7	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

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
ethyl benzene	100-41-4		CA F3
Titanium dioxide (excluding nanoparticle)	13463-67-7		
methylenediphenyl diisocyanate			
benzene	71-43-2		CA MU F3
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		
4,4'-methylenediphenyl diisocyanate	101-68-8		R1
toluene	108-88-3		TE F3
xylene	1330-20-7		F3
Methylenediphenyl diisocyanate			

Legend

- CA Carcinogenic
- F3 Flammable - Third Degree
- MU Mutagenic

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Legend

R1 Reactive - First Degree
TE Teratogenic

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

Name acc. to inventory	CAS No	Classification
BENZENE, ETHYL-	100-41-4	E
TITANIUM OXIDE (TiO ₂)	13463-67-7	
BENZENE, 1,1'-METHYLENEBIS[4-ISOCYANATO-	101-68-8	E
BENZENE, 1,1'-METHYLENEBIS[4-ISOCYANATO-	101-68-8	E
BENZENE, DIMETHYL-	1330-20-7	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
ethyl benzene	100-41-4	T, F
Titanium dioxide (excluding nanoparticle)	13463-67-7	T
methylenediphenyl diisocyanate	101-68-8	T
methylenediphenyl diisocyanate	101-68-8	T
methylenediphenyl diisocyanate	101-68-8	T
benzene	71-43-2	T, F, C
4,4'-methylenediphenyl diisocyanate	101-68-8	T
4,4'-methylenediphenyl diisocyanate	101-68-8	T
4,4'-methylenediphenyl diisocyanate	101-68-8	T
toluene	108-88-3	T, F
toluene	108-88-3	T, F
toluene	108-88-3	T, F
xylene	1330-20-7	T, F
xylene	1330-20-7	T, F
xylene	1330-20-7	T, F
Methylenediphenyl diisocyanate	101-68-8	T
Methylenediphenyl diisocyanate	101-68-8	T
Methylenediphenyl diisocyanate	101-68-8	T



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Legend

C Carcinogenicity (IARC)
F Flammability (NFPA®)
T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals			
Name acc. to inventory	CAS No	Remarks	Type of the toxicity
ethylbenzene	100-41-4		cancer
titanium dioxide	13463-67-7	airborne, unbound particles of respirable size	cancer
benzene	71-43-2		cancer
benzene	71-43-2		developmental, male
toluene	108-88-3		developmental

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	3	material that can be ignited under almost all ambient temperature conditions
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	3	material that can be ignited under almost all ambient temperature conditions
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		

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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
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-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)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
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.



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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.