Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

POR 15 BLACK SOLIDS 94%

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-11-22

SECTION 1: Identification

1.1 Product identifier

Trade name	**POR 15 BLACK SOLIDS 94%**
Product code(s)	45004HS, 45005HS, 45008HS, 45055HS

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

Relevant identified uses	General use

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.

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.1I	acute toxicity (inhal.)	3	Acute Tox. 3	H331
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
A.4R	respiratory sensitization	1	Resp. Sens. 1	H334
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.6	carcinogenicity	1A	Carc. 1A	H350
A.8R	specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
B.6	flammable liquid	3	Flam. Liq. 3	H226

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be

ignited by potential ignition sources.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS02, GHS06, GHS07, GHS08

- Hazard statements

H226	Flammable liquid and vapor.
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.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements

P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P285	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/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	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

Methylenediphenyl diisocyanate, Carbon black, 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, 4,4'-diphenylmethanediisocyanate, methylenediphenyl diisocyanate

2.3 Other hazards

Hazards not otherwise classified

Contains isocyanates. May produce an allergic reaction.
Contains epoxy constituents. May produce an allergic reaction.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0.1%.

Endocrine disrupting properties

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
Methylenediphenyl diisocyanate	CAS No 26447-40-5	50 – < 75	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
Polyurethane Pre Polymer	CAS No 38639-88-2	10 – < 25	
4,4'-diphenylmethanediisocyanate	CAS No 101-68-8	10 – < 25	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	Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226
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

Name of substance	Identifier	Wt%	Classification acc. to GHS
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
Polymethylene polyphenylene isocyanate	CAS No 9016-87-9 32055-14-4	1 – < 5	
ethyl benzene	CAS No 100-41-4	1 – < 5	Acute Tox. 4 / H332 Carc. 2 / H351 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226
Carbon black	CAS No 1333-86-4	1 – < 5	Carc. 1A / H350
acetaldehyde	CAS No 75-07-0	0 – < 0.1	Eye Irrit. 2 / H319 Muta. 2 / H341 Carc. 1A / H350 STOT SE 3 / H335 Flam. Liq. 1 / H224
propylene oxide	CAS No 75-56-9	0 – < 0.1	Acute Tox. 4 / H302 Acute Tox. 3 / H311 Acute Tox. 3 / H331 Eye Irrit. 2 / H319 Muta. 1B / H340 Carc. 2 / H351 STOT SE 3 / H335 Flam. Liq. 1 / H224

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

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

Following inhalation

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

Following skin contact

Wash with plenty of soap and water.

Following eye contact

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

Following ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 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 (NOx), 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

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

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

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

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

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. 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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	ethylbenzene	100-41-4	PEL (CA)	5	22	30	130				Cal/OSHA PEL
US	ethylbenzene	100-41-4	REL	100 (10 h)	435 (10 h)	125	545				NIOSH REL
US	ethylbenzene	100-41-4	TLV®	20							ACGIH® 2024
US	ethylbenzene	100-41-4	PEL	100	435						29 CFR

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
											1910.1000
US	methylbis(phenylisocyanate) (4,4'-MDI)	101-68-8	PEL					0.02	0.2		29 CFR 1910.1000
US	methylenebis(phenyl isocyanate)	101-68-8	REL	0.005 (10 h)	0.05 (10 h)			0.02 (10 min)	0.2 (10 min)		NIOSH REL
US	methylenebis(phenyl isocyanate)	101-68-8	TLV®	0.005							ACGIH® 2024
US	methylenebis(phenyl isocyanate) (4,4'-MDI) (4,4'-diphenylmethanediisocyanate)	101-68-8	PEL (CA)	0.005	0.051						Cal/OSHA PEL
US	xylene, mixture of isomers	1330-20-7	TLV®	20							ACGIH® 2024
US	xylene (dimethylbenzene)	1330-20-7	PEL (CA)	100	435	150	655	300			Cal/OSHA PEL
US	xylenes (o-, m-, p-isomers)	1330-20-7	PEL	100	435						29 CFR 1910.1000
US	carbon black	1333-86-4	PEL (CA)		3.5						Cal/OSHA PEL
US	carbon black	1333-86-4	PEL		3.5						29 CFR 1910.1000
US	carbon black	1333-86-4	REL		3.5 (10 h)					appx-A, appx-C	NIOSH REL
US	carbon black	1333-86-4	TLV®		3					i	ACGIH® 2024
US	carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)	1333-86-4	REL		0.1 (10 h)					PAHs, appx-A, appx-C	NIOSH REL
US	acetaldehyde	75-07-0	PEL (CA)					25	45		Cal/OSHA PEL
US	acetaldehyde	75-07-0	TLV®					25			ACGIH® 2024
US	acetaldehyde	75-07-0	PEL	200	360						29 CFR 1910.1000
US	acetaldehyde	75-07-0	REL							lowest, appx-A, appx-C	NIOSH REL
US	propylene oxide	75-56-9	TLV®	2							ACGIH® 2024
US	propylene oxide	75-56-9	PEL	100	240						29 CFR

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
											1910.1000
US	propylene oxide	75-56-9	REL							lowest, appx-A	NIOSH REL
US	propylene oxide (1,2-epoxypropane)	75-56-9	PEL (CA)	2	4.75						Cal/OSHA PEL

Notation

appx-A	NIOSH Potential Occupational Carcinogen (Appendix A)
appx-C	Appendix C - Supplementary Exposure Limits
Ceiling-C	ceiling value is a limit value above which exposure should not occur
i	inhalable fraction
lowest	exposure by all routes should be carefully controlled to levels as low as possible
PAHs	as polycyclic aromatic hydrocarbons (PAHs)
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

Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	ethylbenzene	Sum of mandelic acid and phenylglyoxylic acid	crea	BEI®	150 mg/g	ACGIH® 2024
US	xylene, mixture of isomers	methylhippuric acids	crea	BEI®	0.3 g/g	ACGIH® 2024

Notation

crea	creatinine

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
4,4'-diphenylmethanediisocyanate	101-68-8	DNEL	0.05 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
4,4'-diphenylmethanediisocyanate	101-68-8	DNEL	0.1 mg/m³	human, inhalatory	worker (industry)	acute - local effects
xylene	1330-20-7	DNEL	221 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
xylene	1330-20-7	DNEL	442 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
xylene	1330-20-7	DNEL	221 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
xylene	1330-20-7	DNEL	442 mg/m³	human, inhalatory	worker (industry)	acute - local effects
xylene	1330-20-7	DNEL	212 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
1-isocyanato-2-({4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl}methyl)-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene	9016-87-9	DNEL	0.05 mg/m³	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/m³	human, inhalatory	worker (industry)	acute - local effects
Polymethylene polyphenylene isocyanate	9016-87-9 32055-14-4	DNEL	0.05 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Polymethylene polyphenylene isocyanate	9016-87-9 32055-14-4	DNEL	0.1 mg/m³	human, inhalatory	worker (industry)	acute - local effects
ethyl benzene	100-41-4	DNEL	77 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
ethyl benzene	100-41-4	DNEL	293 mg/m³	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
propylene oxide	75-56-9	DNEL	2.4 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
propylene oxide	75-56-9	DNEL	170 mg/m³	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
4,4'-diphenylmethanediisocyanate	101-68-8	PNEC	1 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
4,4'-diphenylmethanediisocyanate	101-68-8	PNEC	0.1 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
4,4'-diphenylmethanediisocyanate	101-68-8	PNEC	1 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
4,4'-diphenylmethanediisocyanate	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)

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
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-isocyanatophenyl)methyl]benzene; 1-isocyanato-4-[(4-isocyanatophenyl)methyl]benzene	9016-87-9	PNEC	1 mg/l	aquatic organisms	freshwater	short-term (single instance)
1-isocyanato-2-({4-isocyanato-3-[(4-isocyanatophenyl)methyl]phenyl}methyl)-4-[(4-isocyanatophenyl)methyl]benzene; 1-isocyanato-2-[(4-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-isocy-	9016-87-9	PNEC	1 mg/kg	terrestrial organisms	soil	short-term (single instance)

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
anatophenyl)methyl]benzene						
Polymethylene polyphenylene isocyanate	9016-87-9 32055-14-4	PNEC	3.7 µg/l	aquatic organisms	freshwater	short-term (single instance)
Polymethylene polyphenylene isocyanate	9016-87-9 32055-14-4	PNEC	0.37 µg/l	aquatic organisms	marine water	short-term (single instance)
Polymethylene polyphenylene isocyanate	9016-87-9 32055-14-4	PNEC	11.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Polymethylene polyphenylene isocyanate	9016-87-9 32055-14-4	PNEC	1.17 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Polymethylene polyphenylene isocyanate	9016-87-9 32055-14-4	PNEC	2.33 mg/kg	terrestrial organisms	soil	short-term (single instance)
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)
propylene oxide	75-56-9	PNEC	0.052 mg/l	aquatic organisms	freshwater	short-term (single instance)
propylene oxide	75-56-9	PNEC	0.005 mg/l	aquatic organisms	marine water	short-term (single instance)
propylene oxide	75-56-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
propylene oxide	75-56-9	PNEC	0.245 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
propylene oxide	75-56-9	PNEC	0.025 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
propylene oxide	75-56-9	PNEC	0.019 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

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

- Other protection measures

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

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	black

Particle	not relevant (liquid)

Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	136.1 °C at 1,013 mbar
Flash point	44 °C at 1,013 hPa
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

- Lower explosion limit (LEL)	1.1 vol%
- Upper explosion limit (UEL)	7 vol%
Vapor pressure	0.207 PSI at 85 °F
Density	not determined
Vapor density	this information is not available

Relative density	Information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	183 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none
9.2 VOC Content g/L	53

SECTION 10: Stability and reactivity

10.1 Reactivity

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

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

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

10.5 Incompatible materials

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

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

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Toxic if inhaled.

- Acute toxicity estimate (ATE)
Inhalation: vapor 6.324 $^{mg}/_{l}$/4h

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Methylenediphenyl diisocyanate	26447-40-5	inhalation: vapor	11 $^{mg}/_{l}$/4h
4,4'-diphenylmethanediisocyanate	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: vapor	11 $^{mg}/_{l}$/4h
methylenediphenyl diisocyanate	26447-40-5	inhalation: vapor	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: vapor	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: vapor	11 $^{mg}/_{l}$/4h
propylene oxide	75-56-9	oral	382 $^{mg}/_{kg}$
propylene oxide	75-56-9	dermal	300 $^{mg}/_{kg}$
propylene oxide	75-56-9	inhalation: vapor	3 $^{mg}/_{l}$/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

May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
ethyl benzene	100-41-4	2B	
methylenediphenyl diisocyanate	101-68-8	3	
acetaldehyde	75-07-0	2B	

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans			
Name of substance	**CAS No**	**Classification**	**Number**
acetaldehyde	75-07-0	1	
propylene oxide	75-56-9	2B	
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	3	
4,4'-diphenylmethanediisocyanate	101-68-8	3	
xylene	1330-20-7	3	
Carbon black	1333-86-4	2B	
Polymethylene polyphenylene isocyanate	9016-87-9	3	
Methylenediphenyl diisocyanate	101-68-8	3	

Legend

1	Carcinogenic to humans
2B	Possibly carcinogenic to humans
3	Not classifiable as to carcinogenicity in humans

National Toxicology Program (United States): Report on Carcinogens			
Name of substance	**CAS No**	**Classification**	**Number**
acetaldehyde	75-07-0	Reasonably anticipated to be a human carcinogen	6th Report on Carcinogens
propylene oxide	75-56-9	Reasonably anticipated to be a human carcinogen	6th Report on Carcinogens
Carbon black	1333-86-4	Known to be human carcinogens	1st Report on Carcinogens

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.

SECTION 12: Ecological information

12.1 Toxicity
Shall not be classified as hazardous to the aquatic environment.

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 ≥ 0.1%.

12.6 Endocrine disrupting properties
Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0.1%.

12.7 Other adverse effects
Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Waste treatment-relevant information
Solvent reclamation/regeneration.

Sewage disposal-relevant information
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages
Only packagings which are approved (e.g. acc. to DOT) 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.

SECTION 14: Transport information

14.1 UN number

DOT	UN 1263
ICAO-TI	UN 1263

14.2 UN proper shipping name

DOT	Paint
ICAO-TI	Paint

14.3 Transport hazard class(es)

DOT	3
ICAO-TI	3

14.4 Packing group

DOT	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 of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration	UN1263, Paint, (contains: xylene, 4,4'-diphenylmethanediisocyanate), 3, III
Reportable quantity (RQ)	1,429 lbs (648.6 kg) (xylene) (4,4'-diphenylmethanediisocyanate)
Danger label(s)	3

Special provisions (SP)	367, B1, B52, B131, IB3, T2, TP1, TP29
ERG No	128

International Maritime Dangerous Goods Code (IMDG) - Additional information

not assigned

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

Special provisions (SP)	A3, A72, A192
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 L

SECTION 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) not all ingredients are listed (ACTIVE)

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

The List of Extremely Hazardous Substances and Their Threshold Planning Quantities				
Name of substance	**CAS No**	**Notes**	**Reportable quantity (pounds)**	**Threshold planning quantity (pounds)**
propylene oxide	75-56-9	f	100	10000

Legend

f Chemical on the original list that does not meet toxicity criteria but because of its acute lethality, high production volume and known risk is considered chemical of concern ("Other chemicals"). (November 17, 1986, and February 15, 1990.)

- 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
methylenediphenyl diisocyanate	101-68-8		1986-12-31
acetaldehyde	75-07-0		1986-12-31
propylene oxide	75-56-9		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'-diphenylmethanediisocyanate	101-68-8		1986-12-31
xylene	1330-20-7		1986-12-31
Polymethylene polyphenylene isocyanate	9016-87-9		1994-12-31
Methylenediphenyl diisocyanate	101-68-8		1986-12-31

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

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

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
ethyl benzene	100-41-4		1 2 3	1000 (454)
acetaldehyde	75-07-0		1 3 4	1000 (454)
propylene oxide	75-56-9		1 3	100 (45,4)
4,4'-diphenylmethanediisocyanate	101-68-8		3	5000 (2270)
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)

Clean Air Act

Name of substance	CAS No	Type of registration	Basis for listing	Threshold quantity (lbs)
acetaldehyde	75-07-0	Flammable substance	g	10000
propylene oxide	75-56-9	Toxic substance	b	10000

Legend

b On EHS list, vapor pressure 10 mmHg or greater.
g Volatile flammable liquid

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
4,4'-diphenylmethanediisocyanate	101-68-8		CA TACs EC Annex VI Resp. Sens. - Cat. 1 Hazard Traits identified by DTSC IRIS Neurotoxicants OEHHA RELs
xylene	1330-20-7		ATSDR Neurotoxicants CA MCLs CA TACs 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
Polymethylene polyphenylene isocyanate	9016-87-9		OEHHA RELs
ethyl benzene	100-41-4		ATSDR Neurotoxicants CA MCLs CA TACs CWA 303(c) IARC Carcinogens - 2B OEHHA RELs Prop 65
Carbon black	1333-86-4		IARC Carcinogens - 2B Prop 65
acetaldehyde	75-07-0		CA TACs EC Annex VI CMRs - Cat. 1B IARC Carcinogens - 2B IRIS Carcinogens - B2 IRIS Neurotoxicants NTP 13th RoC - reasonable OEHHA RELs Prop 65
propylene oxide	75-56-9		CA TACs EC Annex VI CMRs - Cat. 1B IARC Carcinogens - 2B IRIS Carcinogens - B2 NTP 13th RoC - reasonable 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 %
acetaldehyde	75-07-0				0.1 %
propylene oxide	75-56-9				0.1 %
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		1050			1.0 %
xylene	1330-20-7				1.0 %
Polymethylene polyphenylene isocyanate		1050			1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
ethyl benzene	100-41-4	A, O	
methylenediphenyl diisocyanate		N	
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		N	
4,4'-diphenylmethanediisocyanate	101-68-8	A, N, O	
4,4'-diphenylmethanediisocyanate		N	
xylene	1330-20-7	A, N, O	
Carbon black	1333-86-4	A, N, O, R, *	
Polymethylene polyphenylene isocyanate		N	
Methylenediphenyl diisocyanate		N	

Legend

*	Substances which are regulated by OSHA as carcinogens; have been categorized by the ACGIH as either "human carcinogens" or "suspect of carcinogenic potential for man"; have been evaluated by the International Agency for Research on Cancer (IARC) and found to be carcinogens or potential carcinogens; or have been listed as a carcinogen or potential carcinogen in the Annual Report on Carcinogens published by the National Toxicology Program (NTP).
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
R	International Agency for Research on Cancer (IARC) Monographs on the Evaluation of the Carcinogenic Risks to Humans; Overall Evaluations of Carcinogenicity: An Updating of IARC Monographs Volumes 1 to 42, Supplement 7 (1987). Available from: WHO Publications Centre USA

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
ethyl benzene	100-41-4		CA F3
methylenediphenyl diisocyanate			
acetaldehyde	75-07-0		CA MU TE F4 R2
propylene oxide	75-56-9		CA MU F4 R2
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'-diphenylmethanediisocyanate	101-68-8		R1
4,4'-diphenylmethanediisocyanate			
xylene	1330-20-7		F3
Carbon black	1333-86-4		CA
Polymethylene polyphenylene isocyanate	9016-87-9		
Methylenediphenyl diisocyanate			

Legend

CA	Carcinogenic
F3	Flammable - Third Degree
F4	Flammable - Fourth Degree
MU	Mutagenic
R1	Reactive - First Degree
R2	Reactive - Second Degree
TE	Teratogenic

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

Name acc. to inventory	CAS No	Classification
BENZENE, ETHYL-	100-41-4	E
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
CARBON BLACK	1333-86-4	
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
methylenediphenyl diisocyanate	101-68-8	T
methylenediphenyl diisocyanate	101-68-8	T
methylenediphenyl diisocyanate	101-68-8	T
acetaldehyde	75-07-0	T, F
propylene oxide	75-56-9	T, F
4,4'-diphenylmethanediisocyanate	101-68-8	T
4,4'-diphenylmethanediisocyanate	101-68-8	T
4,4'-diphenylmethanediisocyanate	101-68-8	T
xylene	1330-20-7	T, F
xylene	1330-20-7	T, F
xylene	1330-20-7	T, F
Carbon black	1333-86-4	T
Methylenediphenyl diisocyanate	101-68-8	T
Methylenediphenyl diisocyanate	101-68-8	T
Methylenediphenyl diisocyanate	101-68-8	T

Legend

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
acetaldehyde	75-07-0		cancer
propylene oxide	75-56-9		cancer
carbon black	1333-86-4	airborne, unbound particles of respirable size	cancer

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

Category	Rating	Description
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		

National inventories

Country	Inventory	Status
NZ	NZIoC	all ingredients are listed
AU	AIIC	not all ingredients are listed
CA	DSL	not all ingredients are listed
CN	IECSC	not all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	not all ingredients are listed
US	TSCA	not all ingredients are listed
VN	NCI	not all ingredients are listed

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

Legend

INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical 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.

SECTION 16: Other information, including date of preparation or last revision

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). 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.