



Safety Data Sheet



acc. to 29 CFR 1910.1200 App D

Superpoly A

Version number: 2.1
Replaces version of: 2025-06-23 (1)

Revision: 2025-09-15

SECTION 1: Identification

1.1 Product identifier

Trade name **Superpoly A**

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

Epoxy Depot
2700 Cumberland Bldg 4
Lebanon PA 17042
United States

Telephone: 1-855-723-7699
e-mail: info@epoxydepotusa.com
Website: Epoxydepotusa.com

1.4 Emergency telephone number

Emergency information service **CHEMTREC: 1-800-535-5053**
This number is only available during the following office hours: Mon-Fri 12:00 AM - 11:59 PM

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.45	skin sensitization	1	Skin Sens. 1	H317

For full text of abbreviations: see SECTION 16.

2.2 Label elements

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

- Signal word **warning**

- Pictograms

GHS07



- Hazard statements
H317 **May cause an allergic skin reaction.**



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- Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P302+P352 If on skin: Wash with plenty of water.
- P321 Specific treatment (see on this label).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling Polyaspartic ester

2.3 Other hazards

Hazards not otherwise classified

- May be harmful if swallowed (GHS category 5: acutely toxic - oral).
- May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).
- May be harmful if inhaled (GHS category 5: acutely toxic - inhalation).
- Very toxic to aquatic life with long lasting effects (GHS category 1: aquatic toxicity - acute and/or chronic).

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 $\geq 0.1\%$.

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	Pictograms
Polyaspartic ester	CAS No 136210-32-7	25 - < 50	Skin Sens. 1 / H317	
Isophorone diamine isobutylalidine	CAS No 54914-37-3	1 - < 5	Flam. Liq. 4 / H227	
Diethyl fumarate	CAS No 623-91-6	1 - < 5	Acute Tox. 4 / H302 Flam. Liq. 4 / H227	
Naphtha (petroleum), hydrotreated heavy	CAS No 64742-48-9	1 - < 5	Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	



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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Secret		1 - <5	STOT SE 3 / H336 Flam. Liq. 3 / H226	 

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. 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

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.



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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. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

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

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

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

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. Use only in well-ventilated areas.

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

- 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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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/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	propylene glycol monomethyl ether acetate	108-65-6	PEL (CA)	100	541	150	811			H	Cal/OSHA PEL
US	2,6-di-tert-butyl-p-cresol	128-37-0	PEL (CA)		10						Cal/OSHA PEL
US	2,6-di-tert-butyl-p-cresol	128-37-0	REL		10 (10 h)						NIOSH REL
US	butylated hydroxy-toluene	128-37-0	TLV®		2					iv	ACGIH® 2024
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	petroleum distillates (naphtha) (rubber solvent)	64742-48-9	PEL	500	2,000						29 CFR 1910.1000
US	petroleum distillates (naphtha)	8002-05-9	REL		350 (10 h)				1,800 (15 min)		NIOSH REL
US	1,2,4-trimethylbenzene	95-63-6	REL	25 (10 h)	125 (10 h)						NIOSH REL
US	1,2,4-trimethylbenzene	95-63-6	TLV®	10							ACGIH® 2024
US	trimethylbenzene, mixture of isomers	95-63-6	PEL (CA)	25	125						Cal/OSHA PEL

Notation

- Ceiling-C ceiling value is a limit value above which exposure should not occur
- H absorbed through the skin
- iv inhalable fraction and vapor
- 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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Biological limit values						
Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	xylene	methylhippuric acids	tech_commercial, crea, crea-limit3c	BEI®	0.3 g/g	ACGIH® 2024

Notation

crea creatinine

crea-limit3c acceptable limits on urine specimens: creatinine concentration: >0.3 g/L and <3.0 g/L, specific gravity: >1.010 and <1.030

tech_commercial technical or commercial grades

Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Polyaspartic ester	136210-32-7	DNEL	84 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Polyaspartic ester	136210-32-7	DNEL	672 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Polyaspartic ester	136210-32-7	DNEL	11.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Isophorone diamine isobutyraldimine	54914-37-3	DNEL	0.073 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Isophorone diamine isobutyraldimine	54914-37-3	DNEL	0.073 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Naphtha (petroleum), hydrotreated heavy	64742-48-9	DNEL	1,286 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Naphtha (petroleum), hydrotreated heavy	64742-48-9	DNEL	837.5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Naphtha (petroleum), hydrotreated heavy	64742-48-9	DNEL	1,067 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Naphtha (petroleum), hydrotreated heavy	64742-48-9	DNEL	0.64 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Secret		DNEL	300 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Secret		DNEL	600 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Secret		DNEL	300 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Secret		DNEL	600 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Secret		DNEL	11 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



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Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Secret		DNEL	11 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Polyaspartic ester	136210-32-7	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
Polyaspartic ester	136210-32-7	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Polyaspartic ester	136210-32-7	PNEC	31.1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Polyaspartic ester	136210-32-7	PNEC	0.21 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Polyaspartic ester	136210-32-7	PNEC	0.02 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Polyaspartic ester	136210-32-7	PNEC	0.1 mg/kg	terrestrial organisms	soil	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	0.147 mg/l	aquatic organisms	water	intermittent release
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	0.015 mg/l	aquatic organisms	freshwater	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	3.04 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	47.92 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	4.79 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	9.57 mg/kg	terrestrial organisms	soil	short-term (single instance)
Secret		PNEC	0.18 mg/l	aquatic organisms	freshwater	short-term (single instance)
Secret		PNEC	0.018 mg/l	aquatic organisms	marine water	short-term (single instance)
Secret		PNEC	35.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Secret		PNEC	0.981 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)



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Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
						instance)
Secret		PNEC	0.098 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Secret		PNEC	0.09 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	clear
Particle	not relevant (liquid)
Odor	characteristic

Other safety parameters



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pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	180 °C
Flash point	>94 °C
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

- Lower explosion limit (LEL)	0.7 vol%
- Upper explosion limit (UEL)	5.4 vol%
Vapor pressure	2.751 Pa at 25 °C
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	195 °C

Viscosity

- Dynamic viscosity	325 – 500 cP at 77 °F
Explosive properties	none
Oxidizing properties	none

9.2 Other information

Liquid content	99 %
Solid content	0 %
Temperature class (USA, acc. to NEC 500)	T3A (maximum permissible surface temperature on the equipment: 180°C)



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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

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

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed, in contact with skin or if inhaled.

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
Polyaspartic ester	136210-32-7	oral	>2,500 mg/kg
Polyaspartic ester	136210-32-7	dermal	>2,000 mg/kg
Polyaspartic ester	136210-32-7	inhalation: dust/mist	>5.5 mg/l/4h
Isophorone diamine isobutyraldimine	54914-37-3	oral	4,150 mg/kg
Diethyl fumarate	623-91-6	oral	1,780 mg/kg
Naphtha (petroleum), hydrotreated heavy	64742-48-9	dermal	>2,000 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.



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Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Polyaspartic ester	136210-32-7	LC50	66 mg/l	zebra fish (Danio rerio)	96 h
Polyaspartic ester	136210-32-7	EC50	88.6 mg/l	daphnia magna	48 h
Isophorone diamine isobutyraldimine	54914-37-3	LC50	>100 mg/l	zebra fish (Danio rerio)	96 h
Isophorone diamine isobutyraldimine	54914-37-3	EC50	22.2 mg/l	daphnia magna	48 h
Diethyl fumarate	623-91-6	LC50	4.5 mg/l	fathead minnow (Pimephales promelas)	96 h
Naphtha (petroleum), hydrotreated heavy	64742-48-9	LL50	8.2 mg/l	fathead minnow (Pimephales promelas)	96 h
Naphtha (petroleum), hydrotreated heavy	64742-48-9	EL50	4.5 mg/l	daphnia magna	48 h
Secret		LC50	18 mg/l	fathead minnow (Pimephales promelas)	96 h
Secret		EC50	18 mg/l	fathead minnow (Pimephales promelas)	96 h



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Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Isophorone diamine isobutyraldimine	54914-37-3	EC50	3,024 mg/l	microorganisms	3 h
Naphtha (petroleum), hydrotreated heavy	64742-48-9	EL50	10 mg/l	fish	21 d
Naphtha (petroleum), hydrotreated heavy	64742-48-9	EC50	15.41 mg/l	microorganisms	40 h
Secret		EC50	34.2 mg/l	daphnia magna	21 d
Secret		LC50	43.5 mg/l	daphnia magna	21 d

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

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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 3082



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IMDG-Code	UN 3082
ICAO-TI	UN 3082
14.2 UN proper shipping name	
DOT	Environmentally hazardous substance, liquid, n.o.s.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
14.3 Transport hazard class(es)	
DOT	9
IMDG-Code	9
ICAO-TI	9
14.4 Packing group	
DOT	III
IMDG-Code	III
ICAO-TI	III
14.5 Environmental hazards	hazardous to the aquatic environment
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	UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III
Danger label(s)	9, fish and tree
 	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	8, 146, 173, 335, 441, IB3, T4, TP1, TP29
ERG No	171

International Maritime Dangerous Goods Code (IMDG) - Additional information



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Marine pollutant	yes (hazardous to the aquatic environment) (tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate)
Danger label(s)	9, fish and tree
Special provisions (SP)	274, 335, 375, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A

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

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	9, fish and tree
Special provisions (SP)	A97, A158, A197, A215
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

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

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	/	none
Health	2	temporary or minor injury may occur
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	



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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	1	material that must be preheated before ignition can occur
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

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

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
8.1		Biological limit values: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH® 2024	From ACGIH®, 2024 TLVs® and BEIs® Book. Copyright 2024. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)



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acc. to 29 CFR 1910.1200 App D

Superpoly A

Version number: 2.1
Replaces version of: 2025-06-23 (1)

Revision: 2025-09-15

Abbr.	Descriptions of used abbreviations
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Sens.	Skin sensitization
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data



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Revision: 2025-09-15

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 (IM-DG). 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).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.

Disclaimer

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



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SuperPoly B

Version number: 3.0
Replaces version of: 2025-08-18 (2)

Revision: 2025-09-15

SECTION 1: IDENTIFICATION

1.1 Product identifier

Name **SuperPoly B**

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

Epoxy Depot, 2700 Cumberland Bldg 4, Lebanon, PA, 17042.
United States. Telephone: 1-855-723-7699. e-mail: info@epoxydepotusa.com.
Website: epoxydepotusa.com.

1.4 Emergency telephone number

Emergency information service CHEMTREC: 1-800-535-5053
This number is only available during the following office hours: Mon-Fri 12:00 AM - 11:59 PM

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.)	4	Acute Tox. 4	H332
A.4R	respiratory sensitization	1	Resp. Sens. 1	H334

For full text of abbreviations: see SECTION 16.

2.2 Label elements

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

- Signal word danger

- Pictograms

GHS07, GHS08



- Hazard statements

H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P284 In case of inadequate ventilation wear respiratory protection.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 Call a poison center/doctor if you feel unwell.
P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
P501 Dispose of contents/container to industrial combustion plant.



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- Hazardous ingredients for labelling

Hexamethylene diisocyanate oligomers, isocyanurate, 1,6-diisocyanatohexane

2.3 Other hazards

Hazards not otherwise classified

Contains isocyanates. May produce an allergic reaction.
May be harmful if swallowed (GHS category 5: acutely toxic - oral).
May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).

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 $\geq 0.1\%$.

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	Pictograms
Hexamethylene diisocyanate oligomers, isocyanurate	CAS No 28182-81-2	50 - < 75	Acute Tox. 4 / H332 Resp. Sens. 1 / H334	
Naphtha (petroleum), hydrotreated heavy	CAS No 64742-48-9	1 - < 5	Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
1,6-diisocyanatohexane	CAS No 822-06-0	< 1	Acute Tox. 4 / H302 Acute Tox. 1 / H330	

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. 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

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

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.

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.



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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

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

- Ventilation requirements
Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.
- 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/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	petroleum distillates (naphtha) (rubber solvent)	64742-48-9	PEL	500	2,000						29 CFR 1910.1000
US	hexamethylene diisocyanate	822-06-0	REL	0.005 (10 h)	0.035 (10 h)			0.02 (10 min)	0.14 (10 min)		NIOSH REL
US	hexamethylene diisocyanate	822-06-0	TLV®	0.005							ACGIH® 2024
US	hexamethylene diisocyanate (HDI)	822-06-0	PEL (CA)	0.005	0.034						Cal/OSHA PEL

Notation

- Ceiling-C ceiling value is a limit value above which exposure should not occur
- 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	hexamethylene diisocyanate	1,6-Hexamethylene diamine	hydr, crea, crea-limit3c	BEI®	15 µg/g	ACGIH® 2024



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Notation

crea creatinine
crea-limit3c acceptable limits on urine specimens: creatinine concentration: >0.3 g/L and <3.0 g/L, specific gravity:>1.010 and <1.030
hydr hydrolysis

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	transparent - yellow
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	180 °C
Flash point	not determined
Evaporation rate	not determined



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Flammability (solid, gas)	not relevant, (fluid)
---------------------------	-----------------------

Explosive limits

- Lower explosion limit (LEL)	0.7 vol%
- Upper explosion limit (UEL)	5.4 vol%
Vapor pressure	0.07 Pa at 20 °C
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	343 °C

Viscosity

- Dynamic viscosity	120 – 160 cP at 77 °F
Explosive properties	none
Oxidizing properties	none

9.2 Other information

Temperature class (USA, acc. to NEC 500)	T2 (maximum permissible surface temperature on the equipment: 300°C)
--	--

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

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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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

Harmful if inhaled.

GHS of the United Nations, annex 4: May be harmful if swallowed or in contact with skin.

- Acute toxicity estimate (ATE)

Inhalation: vapor 12.8 mg/l/4h

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
Hexamethylene diisocyanate oligomers, isocyanurate	28182-81-2	oral	>2,500 mg/kg
Hexamethylene diisocyanate oligomers, isocyanurate	28182-81-2	dermal	>2,000 mg/kg
Hexamethylene diisocyanate oligomers, isocyanurate	28182-81-2	inhalation: vapor	11 mg/l/4h
Hexamethylene diisocyanate oligomers, isocyanurate	28182-81-2	inhalation: dust/mist	1.5 mg/l/4h
Naphtha (petroleum), hydrotreated heavy	64742-48-9	dermal	>2,000 mg/kg
1,6-diisocyanatohexane	822-06-0	oral	959 mg/kg
1,6-diisocyanatohexane	822-06-0	inhalation: vapor	0.124 mg/l/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard



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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

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.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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 2810
IMDG-Code	UN 2810
ICAO-TI	UN 2810

14.2 UN proper shipping name

DOT	Toxic liquid, organic, n.o.s.
IMDG-Code	TOXIC LIQUID, ORGANIC, N.O.S.
ICAO-TI	Toxic liquid, organic, n.o.s.

14.3 Transport hazard class(es)

DOT	6.1
IMDG-Code	6.1



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14.4	ICAO-TI Packing group	6.1
	DOT	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 of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration UN2810, Toxic liquid, organic, n.o.s., 6.1, III

Danger label(s) 6.1



Special provisions (SP) IB3, T7, TP1, TP28

ERG No 153

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant -

Danger label(s) 6.1



Special provisions (SP) 223, 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-A, S-A

Stowage category A

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

Danger label(s) 6.1



Special provisions (SP) A3, A4, A137

Excepted quantities (EQ) E1



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Limited quantities (LQ)

2 L

SECTION 15: REGULATORY INFORMATION

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

Industry or sector specific available guidance(s)

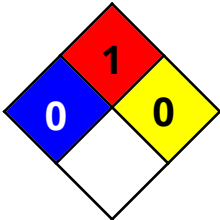
NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	1	irritation or minor reversible injury possible
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

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



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

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	Name: Super Turtle Poly Part B	Name: SuperPoly B	yes

Abbreviations and acronyms

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Abbr.	Descriptions of used abbreviations
	presentations/tlv-bei-position-statement
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DOT	Department of Transportation (USA)
ED	Endocrine disruptor
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
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ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
ppm	Parts per million
Resp. Sens.	Respiratory sensitization
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
STEL	Short-term exposure limit
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

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).



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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).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Disclaimer

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