Safety Data Sheet
2K CLEAR SB POLYURETHANE BARRIER
Safety Data Sheet dated: 8/25/2022 - version 1
Date of first edition: 8/25/2022

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: 2K CLEAR SB POLYURETHANE BARRIER

Other means of identification:

Trade code: IS207

Recommended use of the chemical and restrictions on use

Recommended use: Paint product for professional/industrial use N.A.

Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: ICA North America
169 Main Street
West Lorne, ON
N0L 2P0
Canada

Responsable: regulatoryaffairs@icaspa.com

Emergency telephone number

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire,
Exposure, or Accident Call CHEMTREC Day or Night
Within USA and Canada: 1 -800-424-9300

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Flam. Liq. 2	Highly flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1	May cause an allergic skin reaction.
Repr. 1A	May damage fertility or the unborn child.
STOT SE 3	May cause respiratory irritation.
STOT SE 3	May cause drowsiness or dizziness.
STOT RE 2	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	Harmful to aquatic life with long lasting effects.

Label elements

Pictograms and Signal Words

Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.

H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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 / vapours / spray.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P264	Wash hands and eyes thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/clothing and eye/face protection.
P301+P310	IF SWALLOWED: immediately call a POISON CENTER or doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER / doctor / if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see safety data sheet).
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire, use a dry powder fire 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 in accordance with applicable regulations.

Dir. 2004/42/EC (VOC directive)

PVE

EU limit value for this product (cat. A/E): 400 g/l

This product contains max 715.67 g/l VOC.

Hazards not otherwise classified identified during the classification process:

None

Additional classification information

HMIS Health: 0 = MINIMAL

HMIS Flammability: 3 = Flammable liquid

HMIS Reactivity: 0 = MINIMAL

HMIS P.P.E.: Safety glasses, gloves
NFPA Health: 0 = MINIMAL
NFPA Flammability: 3 = Flammable liquid
NFPA Reactivity: 0 = MINIMAL
NFPA Special Risk: NONE

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
25-35 %	N-butyl acetate	CAS:123-86-4 EC:204-658-1 Index:607-025-00-1	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119485493-29-XXXX
15-25 %	Ethyl acetate	CAS:141-78-6 EC:205-500-4 Index:607-022-00-5	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	01-2119475103-46-XXXX
15-25 %	Xylene, mixture of isomers	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Acute Tox. 4, H332; STOT SE 3, H335; STOT RE 2, H373; Aquatic Chronic 3, H412	01-2119488216-32-XXXX
< 0,3%	Dibutyltin dilaurate	CAS:77-58-7 EC:201-039-8	Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Muta. 2, H341; Repr. 1A, H360FD; STOT SE 1, H370; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119557828-21-XXXX

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
Hazardous combustion products: N.A.
Explosive properties: No
Oxidizing properties: No

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.
Exercise the greatest care when handling or opening the container.
Do not use on extensive surface areas in premises where there are occupants.
Use localized ventilation system.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.
Always keep in a well ventilated place.
Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Avoid accumulating electrostatic charge.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.
Safety electric system.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Notes
N-butyl acetate	MAK	UNITED ARAB EMIRATES	C	480	100	480	100		
	MAK	ALBANIA	C	480	100	960	200		
Ethyl acetate	EU		C		400				
Xylene, mixture of isomers	EU		C	221	50	442	100		

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
N-butyl acetate	123-86-4	0.090 mg/kg	Soil (agricultural)		
		0.18 mg/l	Water		

		0.36 mg/l	WATER, INTERMITTING RELEASE
		0.018 mg/l	Water
		0.981 mg/kg	Air
		0.098 mg/kg	Marine water sediments
		35.6 mg/l	Microorganisms in sewage treatments
Ethyl acetate	141-78-6	0.2 g/kg	Food chain
		0.148 mg/kg	Soil (agricultural)
		0.24 mg/l	Water
		0.02 mg/l	Water
		1.15 mg/kg	Air
		0.115 mg/kg	Marine water sediments
		650 mg/l	Microorganisms in sewage treatments
Xylene, mixture of isomers	1330-20-7	2.31 mg/kg	Soil (agricultural)
		0.32 mg/l	Water
		0.32 mg/l	Water
		12.46 mg/kg	Air
		12.46 mg/kg	Marine water sediments
		6.58 mg/l	Microorganisms in sewage treatments
Dibutyltin dilaurate	77-58-7	0.2 mg/kg	Soil (agricultural)
		0.000463 mg/l	Water
		0.0000463 mg/l	Water
		0.05 mg/kg	Air
		0.005 mg/kg	Marine water sediments

Derived No Effect Level (DNEL) values

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
N-butyl acetate	123-86-4				Human Dermal	Short Term, local effects	
		11 mg/kg		6 mg/kg	Human Dermal	Short Term, systemic effects	
		600 mg/m3		300 mg/m3	Human Inhalation	Short Term, local effects	
		600 mg/m3		300 mg/m3	Human Inhalation	Short Term, systemic effects	
				2 mg/kg	Human Oral	Short Term, systemic effects	
					Human Dermal	Long Term, local effects	
		11 mg/kg		6 mg/kg	Human Dermal	Long Term, systemic effects	
		300 mg/m3		35.7 mg/m3	Human Inhalation	Long Term, local effects	
		300 mg/m3		35.7 mg/m3	Human Inhalation	Long Term, systemic effects	
				2 mg/kg	Human Oral	Long Term, systemic effects	
Ethyl acetate	141-78-6	1468 mg/m3		734 mg/m3	Human Inhalation	Short Term, local effects	
		1468 mg/m3		734 mg/m3	Human Inhalation	Short Term, systemic effects	
		63 mg/kg		37 mg/kg	Human Dermal	Long Term, systemic	

					effects
		734 mg/m3	367 mg/m3	Human Inhalation	Long Term, local effects
		734 mg/m3	367 mg/m3	Human Inhalation	Long Term, systemic effects
			4.5 mg/kg	Human Oral	Long Term, systemic effects
Xylene, mixture of isomers	1330-20-7	442 mg/m3	260	Human Inhalation	Short Term, local effects
		442	260	Human Inhalation	Short Term, systemic effects
				Human Dermal	Long Term, local effects
		212 mg/kg	125 mg/kg	Human Dermal	Long Term, systemic effects
		221	65.3	Human Inhalation	Long Term, local effects
		221 mg/m3	65.3 mg/m3	Human Inhalation	Long Term, systemic effects
			12.5 mg/kg	Human Oral	Long Term, systemic effects
Dibutyltin dilaurate	77-58-7	1 mg/kg	0.5 mg/kg	Human Dermal	Short Term, systemic effects
		0.07 mg/m3	0.02 mg/m3	Human Inhalation	Short Term, systemic effects
			0.01 mg/kg	Human Oral	Short Term, systemic effects
		0.2 mg/kg	0.08 mg/kg	Human Dermal	Long Term, systemic effects
		0.01 mg/m3	0.003 mg/m3	Human Inhalation	Long Term, systemic effects
			0.002 mg/kg	Human Oral	Long Term, systemic effects

Appropriate engineering controls: N.A.

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

Appearance and colour: Liquid transparent

Odour: characteristic

Odour threshold: N.A.

pH: Not Relevant

Melting point / freezing point: -84 °C (-119 °F)

Initial boiling point and boiling range: 80 °C (176 °F)

Flash point: -4 °C (25 °F) (ASTM D 3278 closed cup)

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: 3

Vapour pressure: N.A.
Relative density: 0.95 g/ml
Solubility in water: Insoluble
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: 420.00 °C
Decomposition temperature: N.A.
Viscosity: N.A.
Explosive properties: No
Oxidizing properties: No
Solid/gas flammability: data not applicable
VOC content (g/L) in the product (2010/75/UE) 718.84
VOC content % in the product (2010/75/UE) 75.67

Other information

Substance Groups relevant properties N.A.
Miscibility: N.A.
Fat Solubility: N.A.
Conductivity: N.A.

10. STABILITY AND REACTIVITY

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None.

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2A(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1(H317)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	The product is classified: Repr. 1A(H360)
h) STOT-single exposure	The product is classified: STOT SE 3(H335), STOT SE 3(H336)
i) STOT-repeated exposure	The product is classified: STOT RE 2(H373)
j) aspiration hazard	The product is classified: Asp. Tox. 1(H304)

Toxicological information on main components of the mixture:

N-butyl acetate	a) acute toxicity	LD50 Oral Rat 10760 mg/kg
	b) skin corrosion/irritation	LD50 Skin Rabbit > 14112 mg/kg
	j) aspiration hazard	LC50 Inhalation Vapour Rat > 21.1 mg/l 4h
Ethyl acetate	a) acute toxicity	LD50 Oral Rat 4934 mg/kg
	b) skin corrosion/irritation	LD50 Skin Rabbit > 20000 mg/kg
	j) aspiration hazard	LC50 Inhalation Vapour Rat > 22.5 mg/l 6h

Xylene, mixture of isomers	a) acute toxicity	LD50 Oral Mouse 5627 mg/kg
	b) skin corrosion/irritation	LD50 Skin Rabbit > 5000 mg/kg
	j) aspiration hazard	LC50 Inhalation Vapour Rat 6700 ppm 4h
Dibutyltin dilaurate	a) acute toxicity	LD50 Oral Rat 2071 mg/kg
	b) skin corrosion/irritation	LD50 Skin Rabbit > 2000 mg/kg

Substance(s) listed on the IARC Monographs:

Xylene, mixture of isomers Group 3

Substance(s) listed as OSHA Carcinogen(s):

None

Substance(s) listed as NIOSH Carcinogen(s):

None

Substance(s) listed on the NTP report on Carcinogens:

None

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
N-butyl acetate	CAS: 123-86-4 - EINECS: 204-658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity : EC50 Daphnia 44 mg/L 48h
		b) Aquatic chronic toxicity : IC50 Algae 397 mg/L 72h - Alga
		a) Aquatic acute toxicity : LC50 Fish 18 mg/L 96h - Fish
Ethyl acetate	CAS: 141-78-6 - EINECS: 205-500-4 - INDEX: 607-022-00-5	a) Aquatic acute toxicity : EC50 Daphnia 165 mg/L 48h - Daphnia magna
		a) Aquatic acute toxicity : LC50 Fish 230 mg/L 96h - Fish
		b) Aquatic chronic toxicity : NOEC Algae > 100 mg/L
		b) Aquatic chronic toxicity : NOEC Daphnia 2.4 mg/L - Daphnia pulex
Xylene, mixture of isomers	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : EC50 Daphnia 8.5 mg/L 48h
		a) Aquatic acute toxicity : LC50 Fish 2.6 mg/L 96h - Fish
		b) Aquatic chronic toxicity : NOEC 1.57 mg/L
		b) Aquatic chronic toxicity : NOEC Fish > 1.3 mg/L
Dibutyltin dilaurate	CAS: 77-58-7 - EINECS: 201-039-8	a) Aquatic acute toxicity : EC50 Daphnia 0.463 mg/L 48h - Daphnia
		b) Aquatic chronic toxicity : IC50 Algae > 1 mg/L 72h - Algae

Persistence and degradability

Component	Persitence/Degradability:	Value
N-butyl acetate	Readily biodegradable	0
Ethyl acetate	Readily biodegradable	0

Xylene, mixture of isomers	Readily biodegradable	0
Dibutyltin dilaurate	Non-readily biodegradable	0

Bioaccumulative potential

Component	Value
N-butyl acetate	1.27

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN number

ADR-UN number: 1263
DOT-UN Number: UN1263
IATA-Un number: 1263
IMDG-Un number: 1263

UN proper shipping name

ADR-Shipping Name: PAINT
DOT Proper Shipping Name: PAINT
IATA-Technical name: PAINT
IMDG-Technical name: PAINT

Transport hazard class(es)

ADR-Class: 3
DOT Hazard Class: 3
IATA-Class: 3
IMDG-Class: 3

Packing group

ADR-Packing Group: II
ADR exempt: II
IATA-Packing group: II
IMDG-Packing group: II

Environmental hazards

Marine pollutant: No
Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): 149, 367, B52, B131, IB2, T4, TP1, TP8, TP28
DOT Label(s): 3
DOT Symbol: N/A
DOT Cargo Aircraft: N/A
DOT Passenger Aircraft: N/A
DOT Bulk: N/A
DOT Non-Bulk: N/A

Road and Rail (ADR-RID) :

ADR exempt: No
ADR-Label: 3
ADR - Hazard identification number: 33
ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air (IATA) :

IATA-Passenger Aircraft: 353
IATA-Cargo Aircraft: 364
IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L
IATA-Special Provisioning: A3 A72 A192

Sea (IMDG) :

IMDG-Stowage Code: Category B
IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 163 367
IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: F-E, S-E
IMDG-MFAG: N/A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

N-butyl acetate	is listed in TSCA	Section 8b
Ethyl acetate	is listed in TSCA	Section 8b
Xylene, mixture of isomers	is listed in TSCA	Section 8b
Dibutyltin dilaurate	is listed in TSCA	Section 8d HSDR Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

N-butyl acetate
Ethyl acetate
Xylene, mixture of isomers

Section 313 - Toxic chemical list:

Xylene, mixture of isomers

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

N-butyl acetate	Reportable quantity:	5000	pounds
Ethyl acetate	Reportable quantity:	5000	pounds
Xylene, mixture of isomers	Reportable quantity:	100	pounds
	Reportable quantity for mixture:	476.19	pounds

CAA - Clean Air Act

CAA listed substances:

N-butyl acetate	is listed in CAA	Section 111
Ethyl acetate	is listed in CAA	Section 111
Xylene, mixture of isomers	is listed in CAA	Section 111 Section 112(b) - HAP Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:

N-butyl acetate	is listed in CWA	Section 304 Section 311

Ethyl acetate	is listed in CWA	Section 304
Xylene, mixture of isomers	is listed in CWA	Section 304 Section 311

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

No substances listed

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

N-butyl acetate

Ethyl acetate

Xylene, mixture of isomers

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

N-butyl acetate

Ethyl acetate

Xylene, mixture of isomers

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

N-butyl acetate

Ethyl acetate

Xylene, mixture of isomers

16. OTHER INFORMATION

Code	Description
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet dated: 8/25/2022 - version 1

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.