

SAFETY DATA SHEET

Sikalastic® U-Coating (A) grey



Version
4.0

Revision Date:
26.08.2024

SDS Number (Internal):
100000009948

Date of last issue: 19.08.2023
Date of first issue: 11.11.2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sikalastic® U-Coating (A) grey

Recommended use of the chemical and restrictions on use

Product use : Polyurethane coating, For professional users only.

Manufacturer or supplier's details

Company : Sika Korea Ltd.
724, Anseongmatchum-daero
Miyang-myeon
Anseong-si
Gyeonggi-do
Korea

Telephone : +82-31-8056-7777

Emergency telephone number : +82-31-8056-7777

E-mail address : ehs@kr.sika.com

Telefax : +82-31-8056-7788

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids	: Category 3
Skin sensitisation	: Category 1
Carcinogenicity	: Category 2
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity - repeated exposure (Inhalation)	: Category 1 (Lungs)
Specific target organ toxicity - repeated exposure	: Category 2
Aspiration hazard	: Category 1
Long-term (chronic) aquatic hazard	: Category 3

GHS label elements

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. 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/ protective clothing/ eye protection/ face protection. Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P331 Do NOT induce vomiting. P333 + P313 If skin irritation or rash occurs: Get medical ad-

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vice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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.

Disposal:

P501 Dispose of contents/ container according to waste-related laws

Other hazards which do not result in classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name	CAS-No.	Concentration (% w/w)
Titanium dioxide (> 10 µm)	Titanium dioxide (> 10 µm)	13463-67-7	>= 20 - < 25
n-butyl acetate	n-butyl acetate	123-86-4	>= 10 - < 15
xylene	xylene	1330-20-7	>= 5 - < 10
Hydrocarbons, C9, aromatics	Hydrocarbons, C9, aromatics	64742-95-6	>= 5 - < 10
dimethyl carbonate	dimethyl carbonate	616-38-6	>= 5 - < 10
2-methoxy-1-methylethyl acetate	2-methoxy-1-methylethyl acetate	108-65-6	>= 1 - < 5
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1	>= 0.25 - < 1
Quartz (SiO ₂)	Quartz (SiO ₂)	14808-60-7	0 - < 1

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4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- In case of eye contact : Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- If inhaled : Move to fresh air.
Consult a physician after significant exposure.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Aspiration may cause pulmonary oedema and pneumonitis.
Allergic reactions
Loss of balance
Vertigo
See Section 11 for more detailed information on health effects and symptoms.
Risk of serious damage to the lungs (by aspiration).
sensitising effects
May be fatal if swallowed and enters airways.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
Causes damage to organs through prolonged or repeated exposure if inhaled.
May cause damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.
-

5. FIREFIGHTING MEASURES

Suitable and unsuitable extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing : Water

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media

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Use water spray to cool unopened containers.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Remove all sources of ignition.
Deny access to unprotected persons.

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Use explosion-proof equipment.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Take precautionary measures against electrostatic discharges.

Advice on safe handling : Do not breathe vapours or spray mist.
Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharge.
Open drum carefully as content may be under pressure.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Follow standard hygiene measures when handling chemical products

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Conditions for safe storage : Store in original container.
Keep in a well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Store in accordance with local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Titanium dioxide (> 10 µm)	13463-67-7	TWA	10 mg/m ³	KR OEL
	Further information: Limited evidence of carcinogenicity in humans or animals, which is not sufficiently convincing to place the substance in Category 1			
n-butyl acetate	123-86-4	TWA	150 ppm	KR OEL
		STEL	200 ppm	KR OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
xylene	1330-20-7	TWA	100 ppm	KR OEL
		STEL	150 ppm	KR OEL
		TWA	20 ppm	ACGIH
Quartz (SiO ₂)	14808-60-7	TWA (Respirable fraction)	0.05 mg/m ³	KR OEL
	Further information: Sufficient evidence of carcinogenicity in humans			
		TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH

Other ingredients, which are listed in section 3 but not listed in this section, do not have established occupational exposure limit values.

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Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
xylene	1330-20-7	Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI

Personal protective equipment. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : white
- Odour : solvent-like
- Odour Threshold : No data available
- pH : Not applicable

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Melting point/ range / Freezing point : No data available
Boiling point/boiling range : No data available
Flash point : 27 °C (81 °F)
(Method: closed cup)
Evaporation rate : No data available
Flammability (solid, gas) : No data available

Upper/lower flammability or explosive limits

Upper explosion limit / Upper flammability limit : 7 %(V)

Lower explosion limit / Lower flammability limit : 0.8 %(V)

Vapour pressure : 53 hPa

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : Not applicable

Density : ca. 1.24 g/cm³ (25 °C)

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : 333 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 1,000 mPa.s (25 °C (77 °F))

Viscosity, kinematic : 7 mm²/s (40 °C (104 °F))

Explosive properties : No data available

Oxidizing properties : No data available

10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions : Reactivity:
No dangerous reaction known under conditions of normal use.
Chemical stability:
The product is chemically stable.
Possibility of hazardous reactions:
Stable under recommended storage conditions.

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Possibility of hazardous reactions:
Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.
Incompatible materials : No data available
Hazardous decomposition products : No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data available

Health hazard information

Acute toxicity

No data available

Components:

n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

xylene:

Acute oral toxicity : LD50 Oral (Rat): 3,523 mg/kg

Hydrocarbons, C9, aromatics:

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg
Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg
Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

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Respiratory or skin sensitisation

Respiratory sensitisation

No data available

Skin sensitisation

May cause an allergic skin reaction.

Carcinogenicity

Suspected of causing cancer.

Components:

Titanium dioxide (> 10 µm):

Suspected of causing cancer.

n-butyl acetate:

No data available

xylene:

No data available

Hydrocarbons, C9, aromatics:

No data available

dimethyl carbonate:

No data available

2-methoxy-1-methylethyl acetate:

No data available

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and tri-ethylenetetramine:

No data available

Quartz (SiO₂):

No data available

Germ cell mutagenicity

No data available

Components:

Titanium dioxide (> 10 µm):

No data available

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n-butyl acetate:

No data available

xylene:

No data available

Hydrocarbons, C9, aromatics:

No data available

dimethyl carbonate:

No data available

2-methoxy-1-methylethyl acetate:

No data available

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and tri-ethylenetetramine:

No data available

Quartz (SiO₂):

No data available

Reproductive toxicity

No data available

Components:

Titanium dioxide (> 10 µm):

No data available

n-butyl acetate:

No data available

xylene:

No data available

Hydrocarbons, C9, aromatics:

No data available

dimethyl carbonate:

No data available

2-methoxy-1-methylethyl acetate:

No data available

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Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and tri-ethylenetetramine:

No data available

Quartz (SiO₂):

No data available

STOT - single exposure

May cause respiratory irritation.
May cause drowsiness or dizziness.

STOT - repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.
May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

No data available

Aspiration toxicity

May be fatal if swallowed and enters airways.

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

n-butyl acetate:

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 647.7 mg/l
Exposure time: 72 h

xylene:

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l
Exposure time: 56 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia (water flea)): 1.17 mg/l
Exposure time: 7 d

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Hydrocarbons, C9, aromatics:

Toxicity to algae/aquatic plants : (Pseudokirchneriella subcapitata (green algae)): 2.6 - 2.9 mg/l
Exposure time: 72 h

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and tri-ethylenetetramine:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 7.07 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 4.34 mg/l
Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.5 mg/l
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia sp. (water flea)): 7.07 mg/l
Exposure time: 48 d

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Send to a licensed waste management company.

The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

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Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

Disposal precautions

Dispose of contents and container according to wastes control act.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1263
Proper shipping name : PAINT
Class : 3
Packing group : III
Labels : 3
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 1263
Proper shipping name : Paint
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1263
Proper shipping name : PAINT
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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15. REGULATORY INFORMATION

National regulatory information

Regulation under the Occupational Safety and Health Act

Harmful Substances Prohibited from Manufacturing

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Harmful Agents to be kept below Occupational Exposure Limits

Chemical name	CAS-No.
Titanium dioxide	13463-67-7
n-Butyl acetate	123-86-4
Xylene (all isomers)	1330-20-7
Limestone	1317-65-3
Silica (Crystalline quartz)	14808-60-7

Harmful Agents Required to be kept below Permission Levels

Not applicable

Hazardous substances requiring management

Chemical name	CAS-No.	Threshold limits (%)
Titanium dioxide	13463-67-7	>= 1 %
n-Butyl acetate	123-86-4	>= 1 %

Special Management Materials

Not applicable

Controlled Substances Subject to Environment Monitoring

Chemical name	CAS-No.	Threshold limits (%)
Titanium dioxide	13463-67-7	>= 1 %
n-Butyl acetate	123-86-4	>= 1 %
Xylene	1330-20-7	>= 1 %
Silica	14808-60-7	

Controlled Substances Subject to Health Examination

Chemical name	CAS-No.	Threshold limits (%)
Xylene	1330-20-7	>= 1 %

Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation

Chemical name/Classification	Manufacturing or handling quantity	Storage quantity
Flammable liquids	5,000 kg	200,000 kg

Regulation under the Chemicals Control Act

Toxic Chemicals

Not applicable

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Restricted Chemicals

Not applicable

Prohibited Chemicals

Not applicable

Toxic Release Inventory

Chemical name	CAS-No.	Group	Threshold limits (%)
Xylene (o-,m-,p- isomer mixture)	1330-20-7	Group II	>= 1 %

Accident Precaution Chemicals

Not applicable

Dangerous Substances Safety Management Act

Classification : Group 4, Flammable liquids, Type 2 petroleums, Water insoluble liquid

Hazard rank : Hazardous rank III

Designated Quantity : 1000 litre

Safety Warning : Keep away from fire

International Chemical Weapons Convention (CWC) : Not applicable
Schedules of Toxic Chemicals and Precursors

라. Wastes Control Act

Industrial general wastes
Follow article 13 of the act to dispose the product waste

마. Other requirements in domestic and other countries

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

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

16. OTHER INFORMATION

Issuing date : 11.11.2017

Revision number and date

Number of Revision : 4.0

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Date format : yyyy/mm/dd

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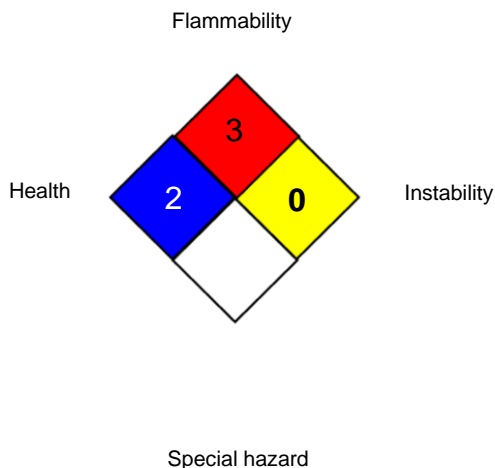
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NFPA:



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
KR OEL	:	Harmful Agents to be kept below Occupational Exposure Limits
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
KR OEL / TWA	:	Time Weighted Average
KR OEL / STEL	:	Short Term Exposure Limit
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemi-

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SVHC : Substances of Very High Concern
vPvB : Very persistent and very bioaccumulative

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

KR / EN