

# SAFETY DATA SHEET

## Sikaflex®-291



Version  
10.0

Revision Date:  
15.04.2025

SDS Number (Internal):  
000000601552

Date of last issue: 16.12.2024  
Date of first issue: 22.12.2015

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sikaflex®-291

#### Recommended use of the chemical and restrictions on use

Product use : Sealant/adhesive

#### 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

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 4

Acute toxicity (Inhalation) : Category 1

Skin sensitisation : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity -  
repeated exposure : Category 2

Specific target organ toxicity -  
repeated exposure (Inhalation)  
: Category 2 (Lungs)

Short-term (acute) aquatic  
hazard : Category 1

Long-term (chronic) aquatic  
hazard : Category 3

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### GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H227 Combustible liquid.  
H317 May cause an allergic skin reaction.  
H330 Fatal if inhaled.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.  
H400 Very toxic to aquatic life.  
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.  
P260 Do not breathe mist or vapours.  
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.  
P284 Wear respiratory protection.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ 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.  
P391 Collect spillage.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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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)
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	68515-49-1	$\geq 20 - < 25$
Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-	Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-	77703-56-1	$\geq 2.5 - < 5$
xylene	xylene	1330-20-7	$\geq 1 - < 5$
Stoddard solvent	Stoddard solvent	8052-41-3	$\geq 1 - < 2.5$
ethylbenzene	ethylbenzene	100-41-4	$\geq 0.1 - < 1$
4,4'-methylenediphenyl diisocyanate	4,4'-methylenediphenyl diisocyanate	101-68-8	$\geq 0.1 - < 1$

## 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.

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- 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 give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : No known significant effects or hazards.  
See Section 11 for more detailed information on health effects and symptoms.  
May cause an allergic skin reaction.  
Fatal if inhaled.  
Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.  
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 : Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : Water
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Standard procedure for chemical fires.
- 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.  
Deny access to unprotected persons.
- Environmental precautions : Try to prevent the material from entering drains or water courses.  
No special environmental precautions required.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : 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.  
Smoking, eating and drinking should be prohibited in the application area.  
Follow standard hygiene measures when handling chemical products
- Conditions for safe storage : Store in original container.  
Keep in a well-ventilated place.  
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
xylene	1330-20-7	TWA	100 ppm	KR OEL
		STEL	150 ppm	KR OEL
		TWA	20 ppm	ACGIH
Stoddard solvent	8052-41-3	TWA	100 ppm	KR OEL
		Further information: Sufficient evidence of carcinogenicity in test animals or limited evidence of carcinogenicity in both animal and human testing., Substances which should be regarded as if they induce heritable mutations in the germ cells of humans		
		TWA	100 ppm	ACGIH
ethylbenzene	100-41-4	TWA	100 ppm	KR OEL
		Further information: Limited evidence of carcinogenicity in humans or animals, which is not sufficiently convincing to place the substance in Category 1		
		STEL	125 ppm	KR OEL
		TWA	20 ppm	ACGIH
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0.005 ppm	KR OEL
		Further information: Limited evidence of carcinogenicity in humans or animals, which is not sufficiently convincing to place the substance in Category 1		
		TWA	0.005 ppm	KR PEL
		TWA	0.005 ppm	ACGIH

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

### 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
ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 mg/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

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Appearance : paste  
Colour : various  
Odour : characteristic  
Odour Threshold : No data available  
pH : Not applicable  
Melting point/ range / Freezing point : No data available  
Boiling point/boiling range : No data available  
Flash point : ca. 64.6 °C (148.3 °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 : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : 0.01 hPa

### Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Density : 1.26 g/cm<sup>3</sup> (23 °C)

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

Auto-ignition temperature : No data available

Decomposition temperature : No data available

### Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : ca. > 20.5 mm<sup>2</sup>/s ( 40 °C (104 °F))

Explosive properties : No data available

Oxidizing properties : No data available

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### 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: No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No hazardous decomposition products are known.

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### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data available

#### Health hazard information

#### Acute toxicity

Fatal if inhaled.

#### Components:

#### **Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-:**

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402

#### **xylene:**

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

#### **ethylbenzene:**

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 5,510 mg/kg

#### **4,4'-methylenediphenyl diisocyanate:**

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50: 1.5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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Method: Expert judgement

### **Skin corrosion/irritation**

No data available

### **Serious eye damage/eye irritation**

No data available

### **Respiratory or skin sensitisation**

#### **Respiratory sensitisation**

No data available

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Carcinogenicity**

Suspected of causing cancer.

#### **Components:**

##### **1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich:**

No data available

##### **Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-:**

No data available

##### **xylene:**

No data available

##### **Stoddard solvent:**

No data available

##### **ethylbenzene:**

Suspected of causing cancer.

##### **4,4'-methylenediphenyl diisocyanate:**

Suspected of causing cancer.

##### **Germ cell mutagenicity**

No data available

#### **Components:**

##### **1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich:**

No data available

##### **Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-:**

No data available

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Genotoxicity in vivo : Species: Bacteria  
Method: OECD Test Guideline 471  
Result: negative  
  
Method: TA98  
  
Method: TA100  
  
Method: TA1535  
  
Method: TA1537

**xylene:**  
No data available

**Stoddard solvent:**  
No data available

**ethylbenzene:**  
No data available

**4,4'-methylenediphenyl diisocyanate:**  
No data available

Genotoxicity in vivo : Species: Bacteria  
Method: OECD Test Guideline 471  
Result: negative  
  
Method: TA98  
  
Method: TA100  
  
Method: TA1535  
  
Method: TA1537

**Reproductive toxicity**  
Suspected of damaging fertility or the unborn child.

**Components:**

**1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich:**  
Suspected of damaging fertility or the unborn child.

**Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-:**  
No data available

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**xylene:**

No data available

**Stoddard solvent:**

No data available

**ethylbenzene:**

No data available

**4,4'-methylenediphenyl diisocyanate:**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

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

**Repeated dose toxicity**

No data available

**Aspiration toxicity**

No data available

**Experience with human exposure**

No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information**

No data available

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Components:**

**Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 250 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Raphidocelis subcapitata (freshwater green alga)): >

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plants : 100 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

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

### **Product:**

Additional ecological information : There is no data available for this product.

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## 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

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

Do not contaminate ponds, waterways or ditches with chemical or used container.

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

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.

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## 14. TRANSPORT INFORMATION

### **International Regulations**

#### **UNRTDG**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable

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Packing group : Not applicable  
Labels : Not applicable  
Environmentally hazardous : no

### IATA-DGR

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

### IMDG-Code

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
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

Not applicable

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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.
Limestone	1317-65-3
Titanium dioxide	13463-67-7
Xylene (all isomers)	1330-20-7
Stoddard solvent	8052-41-3
Ethyl benzene	100-41-4

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Methylene bisphenyl isocyanate	101-68-8
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### Harmful Agents Required to be kept below Permission Levels

Chemical name	CAS-No.
Methylene bis(phenyl isocyanate)	101-68-8

### Hazardous substances requiring management

Chemical name	CAS-No.	Threshold limits (%)
Titanium dioxide	13463-67-7	>= 1 %
Stoddard solvent	8052-41-3	>= 1 %

### Special Management Materials

Chemical name	CAS-No.	Threshold limits (%)
Stoddard solvent	8052-41-3	>= 0.1 %

### Controlled Substances Subject to Environment Monitoring

Chemical name	CAS-No.	Threshold limits (%)
Titanium dioxide	13463-67-7	>= 1 %
Xylene	1330-20-7	>= 1 %
Stoddard solvent	8052-41-3	>= 1 %

### Controlled Substances Subject to Health Examination

Chemical name	CAS-No.	Threshold limits (%)
Xylene	1330-20-7	>= 1 %
Stoddard solvent	8052-41-3	>= 1 %

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

Not applicable

### K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 1)

Category
Flammable liquid
Acute toxic substances (inhalation)

### K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 9)

Category	Manufacturing or handling quantity
Flammable liquid	400 litre
Acute toxic substances (inhalation)	5 kilogram

### Regulation under the Chemicals Control Act

#### Toxic Chemicals

Not applicable

#### 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 %

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Ethylbenzene	100-41-4	Group II	>= 0.1 %
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### Accident Precaution Chemicals

Not applicable

### Dangerous Substances Safety Management Act

Not Applicable to Dangerous Materials

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 : 22.12.2015

### Revision number and date

Number of Revision : 10.0

Revision Date : 15.04.2025

Date format : yyyy/mm/dd

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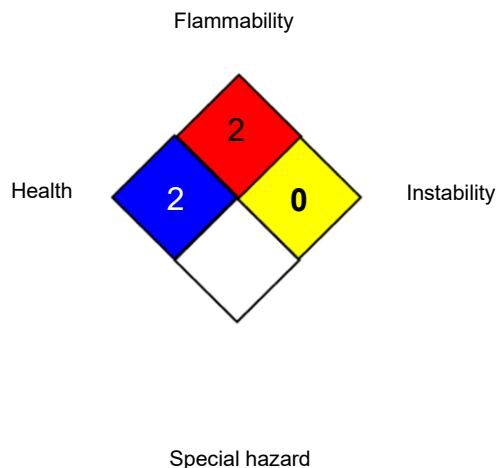
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### NFPA:



### 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
KR PEL	:	Harmful Agents Required to be kept below Permission Levels
ACGIH / TWA	:	8-hour, time-weighted average
KR OEL / TWA	:	Time Weighted Average
KR OEL / STEL	:	Short Term Exposure Limit
KR PEL / TWA	:	TWA
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 Reg-

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SVHC  
vPvB

istration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency  
: Substances of Very High Concern  
: 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