according to Regulation (EC) No. 1907/2006

# Sikafloor®-359N (A)



# Sika<sup>®</sup>

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Sikafloor®-359N (A)

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

Product use : Polyurethane coating

## 1.3 Details of the supplier of the safety data sheet

Company : Sika Limited

Watchmead

Welwyn Garden City Hertfordshire AL7 1BQ United Kingdom

Telephone : +44 (0)1707 394444

## 1.4 Emergency telephone number

Emergency telephone num-

: +44 (0)1707 363899 (available during office hours)

ber

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Type of product : Mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - repeated

exposure, Category 2, hearing organs

H373: May cause damage to organs through pro-

longed or repeated exposure if inhaled.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting ef-

fects.

## 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

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Signal word Warning

Hazard statements H226 Flammable liquid and vapour.

> Causes skin irritation. H315

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H373 May cause damage to organs (hearing or-

gans) through prolonged or repeated expo-

sure if inhaled.

H412 Harmful to aquatic life with long lasting ef-

fects.

Precautionary statements Prevention:

> P210 Keep away from heat, hot surfaces, sparks,

> > open flames and other ignition sources. No

smoking.

P260 Do not breathe dust/ fume/ gas/ mist/ va-

pours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin

with water.

P370 + P378 In case of fire: Use dry sand, dry chemical

or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

215-535-7 xylene

261-879-6 bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-

diylbiscarbamate

1065336-91-5 Pentamethyl piperidylsebacate

247-094-1 hexahydromethylphthalic anhydride

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

## **Hazardous components**

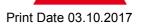
Chemical name	Classification	Concentration
CAS-No.	(REGULATION (EC)	[%]
EC-No.	No 1272/2008)	

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Registration number		
xylene 1330-20-7 215-535-7 01-2119488216-32-XXXX Contains: ethylbenzene <= 25 %	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Asp. Tox.1; H304	>= 10 - < 20
bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate 59719-67-4 261-879-6 01-2119983487-19-XXXX	Eye Irrit.2; H319 Skin Sens.1B; H317 Aquatic Chronic2; H411	>= 2,5 - < 5
Pentamethyl piperidylsebacate  1065336-91-5 915-687-0 01-2119491304-40-XXXX Contains: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Skin Sens.1A; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,25 - < 1
hexahydromethylphthalic anhydride 25550-51-0 247-094-1	Eye Dam.1; H318 Resp. Sens.1; H334 Skin Sens.1; H317	<1
dibutyltin dichloride 683-18-1 211-670-0 01-2119496066-31-XXXX	Acute Tox.3; H301 Acute Tox.1; H330 Acute Tox.4; H312 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Muta.2; H341 Repr.1B; H360FD STOT SE1; H370 STOT RE1; H372 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,025 - < 0,25

Remarks : Substances with a workplace exposure limit

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

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Jika®

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

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.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Do not induce vomiting without medical advice.

Rinse mouth with water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Allergic reactions

Excessive lachrymation

Erythema Dermatitis

See Section 11 for more detailed information on health effects

and symptoms.

Risks : irritant effects

sensitising effects

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

**SECTION 5: Firefighting measures** 

5.1 Extinguishing media

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

Unsuitable extinguishing

media

: Water, High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

: Do not use a solid water stream as it may scatter and spread

fighting

fire

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Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

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

Further information : Use water spray to cool unopened containers.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Remove all sources of ignition.

Deny access to unprotected persons.

Beware of vapours accumulating to form explosive concentra-

tions. Vapours can accumulate in low areas.

## 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible ab-

> sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

#### 6.4 Reference to other sections

For personal protection see section 8.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

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. 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

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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

Advice on protection against

fire and explosion

: Use explosion-proof equipment. Keep away from

heat/sparks/open flames/hot surfaces. No smoking. Take pre-

cautionary measures against electrostatic discharges.

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.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accord-

ance with local regulations.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any

use.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

## Components with workplace control parameters

Components	CAS-No.	Value	Control parame- ters *	Basis *
xylene	1330-20-7	STEL	100 ppm 441 mg/m3	GB EH40
		TWA	50 ppm 220 mg/m3	GB EH40
		TWA	50 ppm 221 mg/m3	2000/39/EC
		STEL	100 ppm 442 mg/m3	2000/39/EC

## Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xylene	1330-20-7	methyl hippuric acid: 650Millimoles	After shift	GB EH40 BAT

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	per mole Creatinine	
ı	(Urine)	

**DNEL** 

bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-

1,2-diylbiscarbamate

: End Use: Workers

**Exposure routes: Inhalation** 

Potential health effects: Long-term systemic effects

Value: 29,4 mg/m3

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

End Use: Consumers
Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 6,25 mg/m3

**End Use: Consumers** 

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

End Use: Consumers
Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

**PNEC** 

bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-

1,2-diylbiscarbamate

: Fresh water

Value: 0,0186 mg/l

Marine water

Value: 0,00186 mg/l

Fresh water sediment Value: 0,709 mg/kg

Marine sediment Value: 0,0709 mg/kg

Soil

Value: 1,131 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Eye wash bottle with pure water

Hand protection : Chemical-resistant, impervious gloves complying with an ap-

according to Regulation (EC) No. 1907/2006

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proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu-

facturer specifications.

Suitable for short time use or protection against splashes:

Butyl rubber/nitrile rubber gloves (0,4 mm), Contaminated gloves should be removed.

Suitable for permanent exposure:

Viton gloves (0.4 mm), breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345,

long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing

and stirring work.

Respiratory protection : Respirator selection must be based on known or anticipated

exposure levels, the hazards of the product and the safe work-

ing limits of the selected respirator.

organic vapor filter (Type A)

A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

## **Environmental exposure controls**

General advice : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : various

Odour : hydrocarbon-like

Odour Threshold : No data available

Flash point : ca. 33 °C

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Autoignition temperature : ca. 431 °C

Decomposition temperature : No data available

Lower explosion limit (Vol-%) : 1 %(V)

Upper explosion limit (Vol-%) : 7 %(V)

Flammability : No data available

Explosive properties : No data available

: No data available Oxidizing properties

рΗ : Not applicable

Melting point/range / Freez-

ing point

Boiling point/boiling range : No data available

Vapour pressure : 7,9993 hPa

Density : ca.1,7 g/cm3

at 20 °C

: No data available

: No data available

: No data available

: insoluble Water solubility

Partition coefficient: n-

Viscosity, dynamic

octanol/water

Viscosity, kinematic > 20,5 mm2/s

at 40 °C

Relative vapour density : No data available

Evaporation rate : No data available

## 9.2 Other information

No data available

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

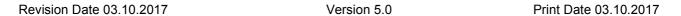
## 10.2 Chemical stability

The product is chemically stable.

## 10.3 Possibility of hazardous reactions

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Hazardous reactions : Stable under recommended storage conditions.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

#### **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Acute toxicity**

Not classified based on available information.

#### **Components:**

xylene:

Acute oral toxicity : LD50 Oral (Rat): 3.523 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 1.700 mg/kg

bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

Pentamethyl piperidylsebacate:

Acute oral toxicity : LD50 Oral (Rat): 3.230 mg/kg

dibutyltin dichloride:

Acute oral toxicity : LD50 Oral (Rat): 219 mg/kg

Acute dermal toxicity : Acute toxicity estimate: 1.100 mg/kg

Method: Converted acute toxicity point estimate

#### Skin corrosion/irritation

Causes skin irritation.

## Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

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## Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

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

#### **Aspiration toxicity**

Not classified based on available information.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

#### **Components:**

Toxicity to algae

#### xylene:

Toxicity to fish : 3,3 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout)

## bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexane-1,2-diylbiscarbamate:

Toxicity to daphnia and other aquatic invertebrates

: EC50: 87,1 mg/l, 48 h, Daphnia magna (Water flea)

: EC50: 18,6 mg/l, 72 h, Scenedesmus capricornutum (fresh

water algae)

## Pentamethyl piperidylsebacate:

LC50: 0,97 mg/l, 96 h, Fish Toxicity to fish

## dibutyltin dichloride:

Toxicity to daphnia and other

EC50: 1,4 mg/l, 48 h, Daphnia (water flea)

aquatic invertebrates

M-Factor (Acute aquatic tox-

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

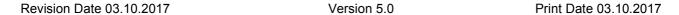
No data available

#### 12.5 Results of PBT and vPvB assessment

#### **Product:**

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Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

#### 12.6 Other adverse effects

#### **Product:**

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimized

wherever possible.

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

way.

Dispose of surplus and non-recyclable products via a licensed

waste disposal contractor.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

European Waste Catalogue : 08 01 11\* waste paint and varnish containing organic sol-

vents or other dangerous substances

Contaminated packaging : 15 01 10\* packaging containing residues of or contaminated

by dangerous substances

## **SECTION 14: Transport information**

**ADR** 

**14.1 UN number** : 1263 **14.2 UN proper shipping name** : PAINT **14.3 Transport hazard** : 3

class(es)

14.4 Packing group : III
Classification Code : F1
Labels : 3
Tunnel restriction code : (D/E)

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# 14.5 Environmental hazards

**ADR** 

Exempted according to 2.2.3.1.5 (Viscous substance exemption)

: no

**IATA** 

**14.1 UN number** : 1263 **14.2 UN proper shipping name** : Paint **14.3 Transport hazard** : 3

class(es)

14.4 Packing group: IIILabels: 314.5 Environmental hazards: no

**IMDG** 

14.1 UN number : 1263 14.2 UN proper shipping name : PAINT 14.3 Class : 3 14.4 Packing group : 111 Labels : 3 EmS Number 1 : F-E EmS Number 2 : S-E 14.5 Marine pollutant : no

**IMDG** 

Transport in accordance with 2.3.2.5 of the IMDG-Code

#### 14.6 Special precautions for user

No data available

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

## **Prohibition/Restriction**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

: Banned and/or restricted

(low boiling point modified naphtha)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: This product contains substances of very high concern (Regulation (EC)

No 1907/2006 (REACH), Article 57).

(hexahydromethylphthalic

anhydride)

REACH - List of substances subject to authorisation

(Annex XIV)

: Not applicable

REACH Information: All substances contained in our Products are

- preregistered or registered by our upstream suppliers, and/or

- preregistered or registered by us, and/or

## according to Regulation (EC) No. 1907/2006

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- excluded from the regulation, and/or
- exempted from the registration.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS 5.000 t 50.000 t

VOC-CH (VOCV) : 13,04 %

VOC-EU (solvent) : 13,04 %

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: : Environmental Protection Act 1990 & Subsidiary Regulations Health and Safety at Work Act 1974 & Subsidiary Regulations Control of Substances Hazardous to Health Regulations

May be subject to the Control of Major Accident Hazards

Regulations (COMAH), and amendments.

Other regulations : Take note of Directive 92/85/EEC regarding maternity protec-

(COSHH)

tion or stricter national regulations, where applicable.

## 15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

#### **SECTION 16: Other information**

## **Full text of H-Statements**

H226	Flammable liquid and vapour.
H301	Toxic 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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if in-
	haled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damage the unborn child.

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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

if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. Acute toxicity

Aquatic Acute Acute aquatic toxicity
Aquatic Chronic Chronic aquatic toxicity
Asp. Tox. Aspiration hazard
Eye Dam. Serious eye damage
Eye Irrit. Eye irritation

Flam. Liq.

Flammable liquids

Muta.

Germ cell mutagenicity

Repr.

Reproductive toxicity

Resp. Sens.

Respiratory sensitisation

Skin Corr. Skin corrosion
Skin Irrit. Skin irritation
Skin Sens. Skin sensitisation

STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure

ADR Accord européen relatif au transport international des marchandises

Dangereuses par Route

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 dosis (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 Chemicals (REACH), establishing a

European Chemicals Agency

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

## Classification of the mixture: Classification procedure:

Flam. Lig. 3 H226 Based on product data or assessment

Skin Irrit, 2 H315 Calculation method

according to Regulation (EC) No. 1907/2006

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Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Chronic 3	H412	Calculation method

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.

Version 5.0

Changes as compared to previous version!