
SAFETY DATA SHEET*according to Regulation (EC) No. 1907/2006***0903480001 - WIT-PE 500 - 385 ML (comp. A)**

Version 2.1	Revision Date 20.02.2015	Print Date 22.02.2015	DE / EN
	Date of last issue: 10.09.2014		
	Date of first issue: 11.06.2010		

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Commercial Product Name : WIT-PE 500 - 385 ML (comp. A)
Product code : 0903480001
SDS-Identcode : 10034384

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

Use of the Substance/Mixture : Construction material, Resins

1.3 Details of the supplier of the safety data sheet

Company : Adolf Wuerth GmbH & Co. KG
Reinhold-Würth-Str. 12-17
74653 Künzelsau
Germany
Telephone : +49 7940 15 0
Telefax : +49 7940 15 10 00
Responsible/issuing person : E-mail address: prodsafe@wuerth.com

1.4 Emergency telephone number

Giftnotrufzentrale Berlin
+49 30 30686 790

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

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.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Sensitising	R43: May cause sensitisation by skin contact.
Irritant	R36/38: Irritating to eyes and skin.
Dangerous for the environment	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Warning

Hazard statements

: H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

: Prevention:	
P261	Avoid breathing mist or vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
Response:	
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P391	Collect spillage.

Hazardous components which must be listed on the label:

- reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
- Bisphenol-F-epichlorhydrin-epoxy resin
- 1,6-Bis(2,3-epoxypropoxy)hexane

Additional Labelling:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazardsNo data available

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Hazardous components**

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Chemical Name	CAS-No.	Classification (67/548/EEC)	Classification (1272/2008/EC)	Concentration [%]
	EC-No.			
	Registration number			
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	25068-38-6	N; R51-R53 R43 Xi; R36/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 45 - < 50
	500-033-5			
Bisphenol-F- epichlorhydrin-epoxy resin	9003-36-5	Xi; R36/38 R43 N; R51/53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 12,5 - < 15
	500-006-8			
1,6-Bis(2,3- epoxypropoxy)hexane	16096-31-4	Xi; R36/38 R43 R52/53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 10 - < 12,5
	240-260-4			
propylene carbonate	108-32-7	Xi; R36	Eye Irrit. 2; H319	>= 5 - < 7
	203-572-1			

For the full text of the R-phrases mentioned in this Section, see Section 16.

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 : If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- If inhaled : If breathed in, move person into fresh air. If symptoms persist, call a physician. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician. Wash off with polyethylene glycol and afterwards with plenty of water.

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In case of eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed : If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Foam, Dry powder, Water spray jet, Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

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

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Avoid inhalation of vapour or mist.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly.

6.4 Reference to other sections

see chapter: 7, 8, 11, 12 and 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Use appropriate container to avoid environmental contamination. 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.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Dust explosion class : Not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Advice on common storage : Keep away from oxidizing agents, strongly acid or alkaline materials, as well as of amines, alcohols and water.

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Keep away from food, drink and animal feedingstuffs.

To be observed: TRGS 510

German storage class : 10, Combustible liquids

Storage temperature : 5 - 25 °C

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

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

Other information on limit values: see chapter 16

8.2 Exposure controls**Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Respirator with filter type A

Half mask with a particle filter P2 (EN 143)

In the case of vapour formation use a respirator with an approved filter.

Hand protection

Material : butyl-rubber

Glove thickness : > 0,7 mm

Break through time: : > 60 min

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Directive : DIN EN 374

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Wear suitable protective clothing.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid release to the environment. Refer to special instructions/ Safety data sheets.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance : paste
Colour : beige
Odour : characteristic

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Odour Threshold : No data available
Flash point : Not applicable
Ignition temperature : No data available
Thermal decomposition : No data available

Lower explosion limit : No data available
Upper explosion limit : No data available
Explosive properties : No data available
Flammability : No data available
Oxidizing properties : No data available
Auto-ignition temperature : No data available
Burning number : No data available
Molecular weight : No data available
pH : Not applicable
Vapour pressure : No data available
Density : 1,55 g/cm³ at 20 °C

Bulk density : Not applicable
Water solubility : insoluble

Partition coefficient: n-octanol/water : No data available
Solubility in other solvents : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Flow time : No data available
Impact sensitivity : No data available
Relative vapour density : No data available
Surface tension : No data available
Evaporation rate : No data available
Minimum ignition energy : No data available
Acid number : No data available
Refraction index : No data available
Miscibility in water : No data available
Solvent separation test : No data available

9.2 Other information

None known.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available

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10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Stability : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Materials to avoid : Oxidizing agents, Bases, Amines, Strong acids, Alcohols, Humid air, Water

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide, Chlorine compounds

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity : Rat: > 2.000 mg/kg

Acute inhalation toxicity:

1,6-Bis(2,3-epoxypropoxy)hexane : Rat, male and female: Test atmosphere: dust/mist
Exposure time: 4 h

Acute dermal toxicity : > 2.000 mg/kg

Acute toxicity (other routes of administration):

No data available

Skin corrosion/irritation

reaction product: bisphenol-A- : Species: Rabbit

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(epichlorhydrin); epoxy resin
(number average molecular
weight ≤ 700)Irritating to skin.
Method: OECD Test Guideline 404Bisphenol-F-epichlorhydrin-
epoxy resin: Species: Rabbit
Skin irritation
Method: OECD Test Guideline 4041,6-Bis(2,3-
epoxypropoxy)hexane: Species: Rabbit
Skin irritation

propylene carbonate

: Species: Rabbit
No skin irritation
Method: OECD Test Guideline 404**Serious eye damage/eye irritation**reaction product: bisphenol-A-
(epichlorhydrin); epoxy resin
(number average molecular
weight ≤ 700)

: Irritating to eyes.

Bisphenol-F-epichlorhydrin-
epoxy resin

: Eye irritation

1,6-Bis(2,3-
epoxypropoxy)hexane: Species: Rabbit
Eye irritation
Method: OECD Test Guideline 405

propylene carbonate

: Species: Rabbit
irritating
Method: OECD Test Guideline 405**Respiratory or skin sensitisation**Sensitisation

: May cause sensitisation by skin contact.

Germ cell mutagenicityGenotoxicity in vitro:reaction product: bisphenol-A-
(epichlorhydrin); epoxy resin
(number average molecular
weight ≤ 700): Type: Ames test
with and without metabolic activation
Result: negative

propylene carbonate

: Type: Mutagenicity (Salmonella typhimurium - reverse mutation as-
say)
with and without metabolic activation

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Result: negative

Method: OECD Test Guideline 471

Genotoxicity in vivo:reaction product: bisphenol-A-
(epichlorhydrin); epoxy resin
(number average molecular
weight \leq 700): Test species: Mouse
Sex: male
Application Route: Oral
Result: negative

propylene carbonate

: Test species: Mouse
Result: negative
Method: OECD Test Guideline 474**Carcinogenicity**

propylene carbonate

: Species: Mouse, male
Application Route: Dermal
Exposure time: 104
Print Date: OECD Test Guideline 451

Remarks

reaction product: bisphenol-A-
(epichlorhydrin); epoxy resin
(number average molecular
weight \leq 700): Carcinogenicity:
No evidence of carcinogenicity in animal studies.

propylene carbonate

: Carcinogenicity:
Animal testing did not show any carcinogenic effects.**Reproductive toxicity**reaction product: bisphenol-A-
(epichlorhydrin); epoxy resin
(number average molecular
weight \leq 700): Note: No evidence of adverse effects on sexual function and fertility,
or on development, based on animal experiments.

propylene carbonate

: Note: No toxicity to reproduction

Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

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propylene carbonate : NOAEL: Rat: > 5000 mg/kg bw/d
Application Route: Oral
Exposure time: 90 d
Dose: 5,0 g/kg/d
Method: OECD Test Guideline 408

Aspiration hazardAspiration toxicity

No data available

Neurological effects

No data available

Toxicology AssessmentToxicology, Metabolism, Distribution

No data available

Acute effects

No data available

SECTION 12: Ecological information**12.1 Toxicity**Toxicity to fish

reaction product: bisphenol-A- : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,2 mg/l
(epichlorhydrin); epoxy resin : Exposure time: 96 h
(number average molecular weight \leq 700)

Bisphenol-F-epichlorhydrin- : LC50 (Danio rerio (zebra fish)): 1,9 mg/l
epoxy resin : Exposure time: 96 h
Method: OECD Test Guideline 203

1,6-Bis(2,3- : LC50 (Oncorhynchus mykiss (rainbow trout)): ca. 30 mg/l
epoxypropoxy)hexane : Exposure time: 96 h
Method: OECD Test Guideline 203

propylene carbonate : LC50 (Cyprinus carpio (Carp)): > 1.000 mg/l
Exposure time: 96 h

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Toxicity to daphnia and other aquatic invertebrates

- reaction product: bisphenol-A-
(epichlorhydrin); epoxy resin
(number average molecular
weight \leq 700) : EC50 (Daphnia magna (Water flea)): 1,1 - 2,8 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Bisphenol-F-epichlorhydrin-
epoxy resin : EC50 (Daphnia magna (Water flea)): 1,9 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202
- 1,6-Bis(2,3-
epoxypropoxy)hexane : EC50 (Daphnia magna (Water flea)): ca. 39 - 57 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- propylene carbonate : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae

- reaction product: bisphenol-A-
(epichlorhydrin); epoxy resin
(number average molecular
weight \leq 700) : EC50 (Scenedesmus capricornutum (fresh water algae)): 9,1 mg/l
Exposure time: 48 h
- Bisphenol-F-epichlorhydrin-
epoxy resin : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,8 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- 1,6-Bis(2,3-
epoxypropoxy)hexane : EC50 (Selenastrum capricornutum (green algae)): 23,1 mg/l
Exposure time: 48 h
- propylene carbonate : ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): >
900 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)):
900 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to bacteria

- Bisphenol-F-epichlorhydrin-
epoxy resin : IC50 : > 100 mg/l
Exposure time: 3 h

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- 1,6-Bis(2,3-epoxypropoxy)hexane : IC50 : > 100 mg/l
Exposure time: 180 min
Method: OECD Test Guideline 209
- propylene carbonate : EC50 (Pseudomonas putida): 25.619 mg/l
Exposure time: 16 h
Test Method: Growth inhibition
Method: DIN 38 412 Part 8

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

- reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700) : NOEC: 0,3 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
- Bisphenol-F-epichlorhydrin-epoxy resin : NOEC: 0,3 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

12.2 Persistence and degradabilityBiodegradability

- reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700) : Result: According to the results of tests of biodegradability this product is not readily biodegradable.
- Bisphenol-F-epichlorhydrin-epoxy resin : Result: Not readily biodegradable.
- 1,6-Bis(2,3-epoxypropoxy)hexane : Result: Not readily biodegradable.
- propylene carbonate : Concentration: 20 mg/l
Result: Readily biodegradable
Biodegradation: \geq 69,3 %
Exposure time: 29 d
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

No data available

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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of as hazardous waste. Do not dispose of together with household waste.
Waste codes should be assigned by the user based on the application for which the product was used.

The following Waste Codes are only suggestions:

Waste Code (EWC) : Waste Key (unused product):
080409, waste adhesives and sealants containing organic solvents or other dangerous substances

Waste key (used product):
080409, waste adhesives and sealants containing organic solvents or other dangerous substances

Disposal of uncleaned packaging : Waste key (uncleaned packaging):
150110, packaging containing residues of or contaminated by dangerous substances

Note: Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.

SECTION 14: Transport information**14.1 UN number**

ADR : 3077

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RID : 3077
IMDG : 3077
IATA : 3077

14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700))

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700))

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700))

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700))

14.3 Transport hazard class(es)

ADR : 9
RID : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9
Limited quantity : 5,00 KG
Tunnel restriction code : (E)

RID
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9
Limited quantity : 5,00 KG

IMDG
Packing group : III
Labels : 9
EmS Number : F-A, S-F

IATA
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956
Packing instruction (LQ) : Y956

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Packing group : III
Labels : 9

14.5 Environmental hazards**ADR**

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA

Environmentally hazardous : yes

14.6 Special precautions for user

see chapter: 6, 7 and 8

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

Not applicable for product as supplied.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC : Directive 2010/75/EU of 24 November 2010 on industrial emissions
(integrated pollution prevention and control)
0 %

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the con- trol of major-accident hazards involving dangerous substances	: Update: 2003	Quantity 1	Quantity 2
	Dangerous for the environ- ment	200 t	500 t

National legislation

Water contaminating class : WGK 2 (water endangering)
(Germany)

Other regulations : Observe national used protectional regulations.

Further information : Reserved for industrial and professional use.

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No data available

SECTION 16: Other information**Full text of R-phrases referred to under sections 2 and 3**

R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R51	Toxic to aquatic organisms.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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