

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 20/06/2023 Revision date: 12/03/2021 Version: 7.00

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

# 1.1. Product identifier

Product form : Mixture
Product name : Radiator Flush
Product code : W56064
Type of product : Detergent
Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Cleaning of cooling systems from combustion engines.

#### 1.2.2. Uses advised against

No additional information available

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

Supplier

ITW ADDITIVES INTL B.V. Industriepark-West 46 9100 Sint-Niklaas BELGIUM

T +32 3 766 60 20 - F +32 3 778 16 56 msds@wynns.eu - www.wynns.com

**Distributor** Krafft S.L.U.

Carretera de Urnieta, s/n 20140 Andoain - Guipúzcoa

**ESPAÑA** 

T +34 943 410 400 - F +34 943 410 440

Distributor

Wynn's Automotive France S.A.S. 2 Av. Léonard de Vinci Z.A. Europarc 33600 PESSAC Cedex

**FRANCE** 

T+33 5 57 26 29 00

Distributor

ITW Automotive Aftermarket Saxon House, 2-4 Victoria Street

SL4 1EN Windsor UNITED KINGDOM T +44 (0)24 7647 2634 http://www.wynns.uk.com

#### 1.4. Emergency telephone number

Emergency number : BIG: +32(0)14 58 45 45 (NL FR EN DE)

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319

Full text of H- and EUH-statements: see section 16

# Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

Signal word (CLP)

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS07

: Warning

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Hazard statements (CLP) : H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P280 - Wear eye protection, protective gloves.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
trisodium nitrilotriacetate	CAS-No.: 5064-31-3 EC-No.: 225-768-6 EC Index-No.: 607-620-00-6 REACH-no: 01-2119519239-	2,5 – 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Carc. 2, H351
isotridecyl alcohol ethoxylate	CAS-No.: 9043-30-5 EC-No.: 500-027-2	1 – 2,5	Eye Dam. 1, H318
sodium acrylate	CAS-No.: 9003-04-7	1 – 2,5	Eye Irrit. 2, H319
sodium 4(or 5)-methyl-1H-benzotriazolide	CAS-No.: 64665-57-2 EC-No.: 265-004-9 REACH-no: 01-2119980062- 42	1 – 2,5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892- 27	0,1 – 1	Met. Corr. 1, H290 Skin Corr. 1A, H314

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
trisodium nitrilotriacetate	CAS-No.: 5064-31-3 EC-No.: 225-768-6 EC Index-No.: 607-620-00-6 REACH-no: 01-2119519239- 36	( 5 ≤C < 100) Carc. 2, H351	
Sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892- 27	( 0,5 ≤C < 2) Skin Irrit. 2, H315 ( 0,5 ≤C < 2) Eye Irrit. 2, H319 ( 2 ≤C < 5) Skin Corr. 1B, H314 ( 5 ≤C < 100) Skin Corr. 1A, H314	

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Full text of H- and EUH-statements: see section 16

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

#### 4.1. Description of first aid measures

First-aid measures general : Check the vital functions. Keep victim at rest in half upright position. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting:

prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid

physical strain. If necessary seek medical advice.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable

for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash

immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical

advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Call a POISON

CENTER/doctor if you feel unwell. Ingestion of large quantities: immediately to hospital.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used.

Unsuitable extinguishing media : None to our knowledge. If there is a fire close by, use suitable extinguishing agents.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

Explosion hazard : Product is not explosive.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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

# 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves and eye/face protection. protective clothing.

Emergency procedures : Mark the danger area. Prevent flow to low areas. Take off contaminated clothing.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams. Contain leaking substance, pump over in suitable containers.

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel

into container for disposal. Clean contaminated surfaces with an excess of water.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

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

#### 7.1. Precautions for safe handling

Precautions for safe handling : Presents no particular risk when handled in accordance with good occupational hygiene

practice. Meet the legal requirements.

Hygiene measures : Use good personal hygiene practices. IF ON SKIN: Wash with plenty of water/.... Wash

contaminated clothing before reuse.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.

Storage conditions : Meet the legal requirements. Store in a closed container. Keep out of frost.

Storage area : Meet the legal requirements.

Special rules on packaging : Labelling according to. Keep only in original container.

#### 7.3. Specific end use(s)

See product bulletin for detailed information.

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

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Sodium hydroxide (1310-73-2)		
Belgium - Occupational Exposure Limits		
OEL TWA 2 mg/m³		
Remark	М	

#### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

reaction mass of (2S)- and (2R)-Alanine,N,N-bis(carboxymethyl)-, trisodium salt (164462-16-2)			
DNEL/DMEL (Workers)			
Acute - systemic effects, dermal	2000 mg/kg bodyweight/day		
Acute - systemic effects, inhalation	40 mg/m³		
Acute - local effects, dermal	2000 mg/cm <sup>2</sup>		
Acute - local effects, inhalation	40 mg/m³		
Long-term - systemic effects, dermal	170 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	40 mg/m³		

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reaction mass of (2S)- and (2R)-Alanine,N,N-b	ois(carboxymethyl)-, trisodium salt (164462-16-2)			
Long-term - local effects, inhalation	4 mg/m³			
DNEL/DMEL (General population)				
Acute - systemic effects, dermal	400 mg/kg bodyweight			
Acute - systemic effects, inhalation	20 mg/m³			
Acute - systemic effects, oral	85 mg/kg bodyweight			
Acute - local effects, dermal	400 mg/cm <sup>2</sup>			
Acute - local effects, inhalation	20 mg/m³			
Long-term - systemic effects,oral	17 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	20 mg/m³			
Long-term - systemic effects, dermal	25 mg/kg bodyweight/day			
Long-term - local effects, inhalation	2 mg/m³			
PNEC (Water)				
PNEC aqua (freshwater)	2 mg/l			
PNEC aqua (marine water)	0,2 mg/l			
PNEC aqua (intermittent, freshwater)	1 mg/l			
PNEC (Sediment)				
PNEC sediment (freshwater)	24 mg/kg dwt			
PNEC (Soil)				
PNEC soil	2,5 mg/kg dwt			
PNEC (STP)				
PNEC sewage treatment plant	100 mg/l			
sodium 4(or 5)-methyl-1H-benzotriazolide (64	665-57-2)			
DNEL/DMEL (Workers)				
Long-term - systemic effects, dermal	0,5 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	8,8 mg/m³			
DNEL/DMEL (General population)				
Acute - systemic effects, oral	0,54 mg/kg bodyweight			
Long-term - systemic effects,oral	0,25 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	4,4 mg/m³			
Long-term - systemic effects, dermal	0,25 mg/kg bodyweight/day			
PNEC (Water)				
PNEC aqua (freshwater)	0,008 mg/l			
PNEC aqua (marine water)	0,008 mg/l			
PNEC aqua (intermittent, freshwater)	0,086 mg/l			
PNEC (Sediment)				
PNEC sediment (freshwater)	0,0025 mg/kg dwt			
PNEC sediment (marine water)	0,0025 mg/kg dwt			
PNEC (Soil)	PNEC (Soil)			
PNEC soil	0,0024 mg/kg dwt			

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sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)			
PNEC (STP)			
PNEC sewage treatment plant	39,4 mg/l		
Sodium hydroxide (1310-73-2)			
DNEL/DMEL (Workers)			
Long-term - local effects, inhalation	1 mg/m³		
DNEL/DMEL (General population)			
Long-term - local effects, inhalation	1 mg/m³		
Silicic acid, sodium salt (1344-09-8)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	1,59 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	5,61 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	0,8 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	1,38 mg/m³		
Long-term - systemic effects, dermal	0,8 mg/kg bodyweight/day		
PNEC (Water)	PNEC (Water)		
PNEC aqua (freshwater)	7,5 mg/l		
PNEC aqua (marine water)	1 mg/l		
PNEC aqua (intermittent, freshwater)	7,5 mg/l		
PNEC (STP)			
PNEC sewage treatment plant	348 mg/l		

# 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

# Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Does not require any specific or particular technical measures.

# 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses.

### Personal protective equipment symbol(s):





## 8.2.2.1. Eye and face protection

No additional information available

### 8.2.2.2. Skin protection

# Hand protection:

Neoprene. Nitrile rubber. Polyvinylchloride (PVC). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer

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#### 8.2.2.3. Respiratory protection

No additional information available

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Other information:

Breakthrough time: >30'. Thickness of the glove material >0.1 mm.

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

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : light green. Odour : Not available Odour threshold : Not available Melting point : Not available Freezing point : Not available Boiling point : Not available Flammability : Not available **Explosive limits** : Not available Lower explosion limit : Not available Upper explosion limit Not available Flash point Not available : Not available Auto-ignition temperature Decomposition temperature : Not available : 12,4 (ASTM E70) рΗ Viscosity, kinematic : Not available Solubility Soluble in water Partition coefficient n-octanol/water (Log Kow) : Not available : Not available Vapour pressure Vapour pressure at 50°C : Not available

Density : 1 g/cm³ @ 20°C (ASTM D4052)

Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

#### 9.2. Other information

# 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Additional information : The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions of use.

# 10.3. Possibility of hazardous reactions

No additional information available

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#### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)		
LD50 oral rat 735 mg/kg bodyweight Sprague-Dawley		
LD50 dermal rabbit	> 2000 mg/kg bodyweight New Zealand White	

Skin corrosion/irritation : The mixture need not be classified as corrosive in spite of the extreme pH

pH: 12,4 (ASTM E70) : Causes skin irritation.

Additional information : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

pH: 12,4 (ASTM E70)

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

### trisodium nitrilotriacetate (5064-31-3)

IARC group 2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

#### 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : This product contains hazardous components for the aquatic environment. The product is

environment

not considered harmful to aquatic organisms nor to cause long-term adverse effects in the

ronment\_short\_term · Not classified

Hazardous to the aquatic environment, short–term

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)		
LC50 - Fish [1] 96h 180 mg/l Danio rerio		
EC50 - Crustacea [1]	48h 8,58 mg/l Daphnia galeata	
EC50 - Other aquatic organisms [1] 72h 53 mg/l Skeletonema costatum		

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sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)		
NOEC (chronic) 30 mg/l		
Sodium hydroxide (1310-73-2)		
EC50 - Crustacea [1]	48h 40,4 mg/l Ceriodaphnia sp.	
trisodium nitrilotriacetate (5064-31-3)		
Threshold limit - Other aquatic organisms [1]	800 mg/l (24 h; Daphnia magna; ANHYDROUS FORM)	

# 12.2. Persistence and degradability

Radiator Flush			
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.		
sodium acrylate (9003-04-7)			
Persistence and degradability	Not readily biodegradable in water.		
sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)			
Persistence and degradability	Readily biodegradable in water.		
trisodium nitrilotriacetate (5064-31-3)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.		

# 12.3. Bioaccumulative potential

sodium acrylate (9003-04-7)			
Bioaccumulative potential	Low potential for bioaccumulation (molecular mass >=700 g/mol).		
sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)			
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).			
trisodium nitrilotriacetate (5064-31-3)			
Bioaccumulative potential	Bioaccumulation: not applicable.		

# 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Endocrine disrupting properties

No additional information available

# 12.7. Other adverse effects

No additional information available

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# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant. Avoid release to the environment.

European List of Waste (LoW) code

: 20 01 29\* - detergents containing dangerous substances

15 01 10\* - packaging containing residues of or contaminated by dangerous substances

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID		
14.1. UN number or ID n	I4.1. UN number or ID number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shippin	g name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable		
No supplementary information available						

#### 14.6. Special precautions for user

### **Overland transport**

Not applicable

# Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Detergent Regulation (648/2004)**

Labelling of contents	
Component	%
NTA (nitrilotriacetic acid) and salts thereof, non-ionic surfactants	<5%

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

SZW-lijst van reprotoxische stoffen – Borstvoeding

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

 $SZW\text{-}lijst\ van\ reprotoxische\ stoffen-Ontwikkeling$ 

sodium 4(or 5)-methyl-1H-benzotriazolide is listed
sodium 4(or 5)-methyl-1H-benzotriazolide is listed

Sodium 4(or 5)-memyi-m-benzomazonde is liste

: None of the components are listed

: None of the components are listed

: None of the components are listed

# Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

# 15.2. Chemical safety assessment

No additional information available

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

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Carc. 2	Carcinogenicity, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	

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Full text of H- and EUH-statements:		
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H351	Suspected of causing cancer.	
H411	Toxic to aquatic life with long lasting effects.	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.