

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 10/5/2023 Revision date: 5/21/2025 Supersedes version of: 10/5/2023 Version: 1.1

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

## 1.1. Product identifier

Product form	: 1	Mixture
		Borygo Premium car radiator fluid A7W0-WC3P-S00S-RF8C

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

#### Relevant identified uses

Use of the substance/mixture

: Borygo Premium car radiator fluid is used as a low-coagulation fluid for filling the cooling system of combustion engines.

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

Boryszew S.A. Oddział Boryszew ERG w Sochaczewie 15 Sierpnia 106 96-500 Sochaczew Poland T 468630201 certyfikacja@boryszewerg.com.pl, www.boryszewerg.com.pl

#### 1.4. Emergency telephone number

Emergency number

: 112

# **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302 Serious eye damage/eye irritation, Category 2 H319 Specific target organ toxicity - Repeated exposure, Category 2 H373 Full text of H- and EUH-statements: see section 16

## Adverse physicochemical, human health and environmental effects

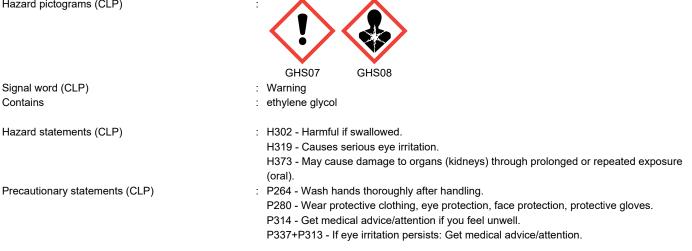
May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. Causes serious eye irritation.

#### 2.2. Label elements

Contains

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

Hazard pictograms (CLP)



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## 2.3. Other hazards

Contains no PBT and/or 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 substance(s) are 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**

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethylene glycol substance with national workplace exposure limit(s) (PL); substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816- 28	≤ 50	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT RE 2, H373
sodium hydroxide substance with national workplace exposure limit(s) (PL)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892- 27	≤ 0.7	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892- 27	$(0.5 \le C < 2)$ Skin Irrit. 2; H315 $(0.5 \le C < 2)$ Eye Irrit. 2; H319 $(2 \le C < 5)$ Skin Corr. 1B; H314 $(5 \le C \le 100)$ Skin Corr. 1A; H314

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 First-aid measures after inhalation	<ul><li>Call a poison center or a doctor if you feel unwell.</li><li>Remove person to fresh air and keep comfortable for breathing.</li></ul>
First-aid measures after skin contact First-aid measures after eye contact	<ul> <li>Wash skin with plenty of water.</li> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue risking of euc initiation paraites. Cot medical advice (attention)</li> </ul>
First-aid measures after ingestion	to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. : Rinse mouth. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	None under normal conditions.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.
4.3. Indication of any immediate medic	al attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a heavy water stream.</li></ul>		
5.2. Special hazards arising from the substance or mixture			
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released.</li> </ul>		
5.3. Advice for firefighters			
Firefighting instructions Protection during firefighting	<ul> <li>Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protectiv	/e equipment and emergency procedures		
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.		
For non-emergency personnel			
Protective equipment Emergency procedures	<ul> <li>Wear recommended personal protective equipment.</li> <li>Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.</li> </ul>		
For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for conta	inment and cleaning up		
For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to		

Methods for cleaning up:Take up liquid spill into absorbent material.Other information:Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	<ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.</li> </ul>
Hygiene measures	<ul> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>

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Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Protect the product against the influence of air humidity and sunlight. Store at <40 ° C.
Storage temperature	: <40 °C
Packaging materials	: Store always product in container of same material as original container.

No additional information available

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## National occupational exposure and biological limit values

ethylene glycol (107-21-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Ethylene glycol	
IOEL TWA	52 mg/m³	
	20 ppm	
IOEL STEL	104 mg/m <sup>3</sup>	
	40 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Poland - Occupational Exposure Limits		
Local name	Glikol etylenowy	
NDS (OEL TWA)	15 mg/m³	
NDSCh (OEL STEL)	50 mg/m <sup>3</sup>	
Remark	Skóra (Oznakowanie substancji notacją "skóra" oznacza, że wchłanianie substancji przez skórę może być tak samo istotne jak przy narażeniu drogą oddechową).	
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.	
sodium hydroxide (1310-73-2)		
Poland - Occupational Exposure Limits		
Local name	Wodorotlenek sodu	
NDS (OEL TWA)	0.5 mg/m <sup>3</sup>	
NDSCh (OEL STEL)	1 mg/m <sup>3</sup>	
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.	
Exposure limit values for the other components		
adipic acid (124-04-9)		
Poland - Occupational Exposure Limits		

Poland - Occupational Exposure Limits		
Local name	Kwas adypinowy	
NDS (OEL TWA)	5 mg/m³ frakcja wdychalna	
NDSCh (OEL STEL)	10 mg/m³ frakcja wdychalna	

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adipic acid (124-04-9)		
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która stwarza zagrożenie dla zdrowia po zdeponowaniu w drogach oddechowych.	
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.	
Propane-1,2-diol (57-55-6)		
Poland - Occupational Exposure Limits		
Local name	Propano-1,2-diol	
NDS (OEL TWA)	100 mg/m³ pary i frakcja wdychalna	
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która stwarza zagrożenie dla zdrowia po zdeponowaniu w drogach oddechowych.	
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.	

## 8.2. Exposure controls

#### Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

## Personal protection equipment

## Personal protective equipment:

Wear recommended personal protective equipment. **Personal protective equipment symbol(s):** 



#### Eye and face protection

#### Eye protection:

Safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
Protective glasses in a sealed housing (goggles) when performing activities that pose a risk of splashing into the eye.			

## **Skin protection**

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

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land protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Wear impermeable, oil- resistant protective gloves (e.g. perbutane thickness > 0.1 mm, puncture resistance > 480 min, viton thickness > 0.1 mm, puncture resistance > 480 min, butyl rubber thickness > 0.1 mm, puncture resistance > 480 min.). The choice of glove material should be made taking into account the glove manufacturer's recommendations regarding breakthrough time, penetration rate and degradation. It is recommended to change gloves regularly and replace them immediately if there are any signs of wear, damage (tearing, perforation) or change in appearance (colour, elasticity, shape).	6 (> 480 minutes)	>0,1		

## Respiratory protection

## Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection				
Device	Filter type	Condition	Standard	
Under normal conditions, with adequate ventilation, they are not required. When exposed to dangerous/unknown vapour concentrations and/or insufficient ventilation, use an approved respirator with a type A filter. In case of confined space/insufficient oxygen content in the air/large uncontrolled emissions/any circumstances where a mask with a filter does not provide adequate protection, use self-contained respiratory protective equipment.	filtr A			

#### **Environmental exposure controls**

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state Colour	: Liquid : Various colours. Colourless. pink. Violet.	

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Appearance	: transparent, homogeneous, opalescent liquid, without sediments.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: ≤-38 °C
Boiling point	: ≥ 108 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 7.5 – 9 / 20 °C
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: ≥ 1.068 g/cm³ / 20 °C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

# 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### **10.2. Chemical stability**

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

## 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 clas	ses as defined in Regulation (EC) No 1272/2008	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Harmful if swallowed. : Not classified : Not classified	
Borygo Premium car radiator fluid		
ATE CLP (oral)	1007.861 mg/kg bodyweight	

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ethylene glycol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight Animal: rat
Skin corrosion/irritation	: Not classified pH: 7.5 – 9 / 20 °C
sodium hydroxide (1310-73-2)	
рН	> 13
Serious eye damage/irritation	: Causes serious eye irritation. pH: 7.5 – 9 / 20 °C
sodium hydroxide (1310-73-2)	
рН	> 13
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
ethylene glycol (107-21-1)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
ethylene glycol (107-21-1)	
Viscosity, kinematic	14.505 mm²/s
11.2. Information on other hazards	

No additional information available

# SECTION 12: Ecological information

12.1. Toxicity

: The product is not considered harmful to aquatic organisms nor to cause long-term advers effects in the environment.
: Not classified
> 72860 mg/l Test organisms (species): Pimephales promelas
> 100 mg/l Test organisms (species): Daphnia magna
≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'
40.4 mg/l Test organisms (species): Ceriodaphnia sp.
Not rapidly degradable

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ethylene glycol (107-21-1)				
Persistence and degradability	Not rapidly degradable			
sodium hydroxide (1310-73-2)				
Persistence and degradability	Not rapidly degradable			
12.3. Bioaccumulative potential				
ethylene glycol (107-21-1)				
Partition coefficient n-octanol/water (Log Pow)	0			
Partition coefficient n-octanol/water (Log Kow)	-1.36			
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

SECTION 13: Disposal consideration	s
13.1. Waste treatment methods	
Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information	<ul> <li>Disposal must be done according to official regulations.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Disposal must be done according to official regulations.</li> <li>Disposal must be done according to official regulations.</li> <li>Act of 14 December 2012 on waste (Journal of Laws 2013 No. 0, item 21, as amended).</li> </ul>
	Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws 2013 No. 0, item 888, as amended). Regulation of the Minister of Climate of 2 January 2020 on the waste catalogue (Journal of

Laws 2020, item 10).

# **SECTION 14: Transport information**

ADR	IMDG	ΙΑΤΑ	ADN	RID
4.1. UN number or ID n	umber		,	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.2. UN proper shipping	y name		,	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.3. Transport hazard c	lass(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary informatio	••			

## 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

#### **EU-Regulations**

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

EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
3(b)	Borygo Premium car radiator fluid ; ethylene glycol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	

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

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

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

Contains substance(s) listed on the REACH Candidate List < 0.1% or SCL.

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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

#### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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#### Explosives Precursors Regulation (EU 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 (EC 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)

#### **National regulations**

#### Poland

**Polish National Regulations** 

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225). Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797). The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended). Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923). Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154). Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended). The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488) Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended). Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141). ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# SECTION 16: Other information Indication of changes Section Changed item Comments

	Modified
	21.05.2025 - review of the card in terms of content, modification of
	section 8+13

Abbreviations and acr	bbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	

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Abbreviations and acronyms:		
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disruptor	

Full text of H- and EUH	Ill text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
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		
STOT RE 2	Specific target organ toxicity – Repeated exposure, 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.	
H373	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).	

## The classification complies with

: ATP 12

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.