



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

SAFETY DATA SHEET

AF-10 Central Heating Biocide 500ml

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

1.1 Product identifier

Product name : AF-10 Central Heating Biocide 500ml
Product code : 57551
Product description : Not available.
Product type : Liquid.

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

Restricted to professional users.

Material uses : Water treatment agent.

1.3 Details of the supplier of the safety data sheet

Supplier : **Fernox**
2 Genesis Business Park
Albert Drive
Sheerwater
Woking GU21 5RW

Information contact : +44 (0) 330 100 7750
+44 (0) 330 100 7751
europeanregulatory@macdermid.com

1.4 Emergency telephone number

Supplier

Telephone number : +44 (0) 330 100 7750
Hours of operation : 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

☑ Skin Corr. 1, H314
Eye Dam. 1, H318
Skin Sens. 1, H317

Ingredients of unknown toxicity :

Ingredients of unknown ecotoxicity :

Date of issue/Date of revision : 30.11.2016

A MacDermid Performance Solutions Business
A Platform Specialty Products Company



SECTION 2: Hazards identification

Classification according to Directive 1999/45/EC [DPD]

Europe

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36/38
R43

Human health hazards : Irritating to eyes and skin. May cause sensitisation by skin contact.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

Precautionary statements

Prevention : Wear protective gloves: < 1 hour (breakthrough time): disposable vinyl. Wear eye or face protection: Recommended: safety glasses with side-shields . Wear protective clothing: Recommended: overall.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or physician. IF IN EYES: Immediately call a POISON CENTER or physician.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : 1,2-benzisothiazol-3(2H)-one sodium hydroxide

Supplemental label elements : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Europe 1,2-benzisothiazol-3(2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27	≥1 - <3	C; R35	Skin Corr. 1A, H314	[1]

Date of issue/Date of revision : 30.11.2016








SECTION 3: Composition/information on ingredients






	EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	Eye Dam. 1, H318
Austria						
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50			Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35			Skin Corr. 1A, H314 Eye Dam. 1, H318
						[1]
						[1] [2]
Belgium						
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50			Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35			Skin Corr. 1A, H314 Eye Dam. 1, H318
						[1]
						[1] [2]
Bulgaria						
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50			Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35			Skin Corr. 1A, H314 Eye Dam. 1, H318
						[1]
						[1] [2]
Croatia						
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50			Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35			Skin Corr. 1A, H314 Eye Dam. 1, H318
						[1]
						[1] [2]
Czech Republic						
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50			Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
sodium hydroxide	REACH #: 01-2119457892-27	≥1 - <3	C; R35			Skin Corr. 1A, H314
						[1]
						[1] [2]



SECTION 3: Composition/information on ingredients

	EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6			Eye Dam. 1, H318	
Denmark					
 2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Estonia					
 2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Finland					
 2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
France					
 2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Germany					
 xydipropanol	REACH #: 01-2119456811-38 EC: 246-770-3 CAS: 25265-71-8	≥5 - <10	Not classified.	Not classified.	[2]
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27	≥1 - <3	C; R35	Skin Corr. 1A, H314	[1]

SECTION 3: Composition/information on ingredients

	EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6			Eye Dam. 1, H318	
Greece					
 2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Hungary					
 2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Ireland					
 2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Italy					
 2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1]
Latvia					
 2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Lithuania					

SECTION 3: Composition/information on ingredients

1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Skin Corr. 1A, H314	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Eye Dam. 1, H318	[1] [2]
Netherlands					
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Skin Corr. 1A, H314	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Eye Dam. 1, H318	[1]
Norway					
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Skin Corr. 1A, H314	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Eye Dam. 1, H318	[1] [2]
Poland					
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Skin Corr. 1A, H314	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Eye Dam. 1, H318	[1] [2]
Portugal					
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Skin Corr. 1A, H314	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Eye Dam. 1, H318	[1] [2]
Romania					

SECTION 3: Composition/information on ingredients

<p>Slovakia</p> <p>2,2-benzisothiazol-3 (2H)-one</p>	<p>EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6</p>	≥1 - <3	<p>Xn; R22 Xi; R41, R38 R43 N; R50</p>	<p>Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Skin Corr. 1A, H314</p>	[1]
	<p>sodium hydroxide</p> <p>REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6</p>	≥1 - <3	C; R35	<p>Eye Dam. 1, H318</p>	[1] [2]
<p>Slovenia</p> <p>2,2-benzisothiazol-3 (2H)-one</p>	<p>EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6</p>	≥1 - <3	<p>Xn; R22 Xi; R41, R38 R43 N; R50</p>	<p>Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Skin Corr. 1A, H314</p>	[1]
	<p>sodium hydroxide</p> <p>REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6</p>	≥1 - <3	C; R35	<p>Eye Dam. 1, H318</p>	[1] [2]
<p>Spain</p> <p>2,2-benzisothiazol-3 (2H)-one</p>	<p>EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6</p>	≥1 - <3	<p>Xn; R22 Xi; R41, R38 R43 N; R50</p>	<p>Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Skin Corr. 1A, H314</p>	[1]
	<p>sodium hydroxide</p> <p>REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6</p>	≥1 - <3	C; R35	<p>Eye Dam. 1, H318</p>	[1] [2]
<p>Sweden</p> <p>2,2-benzisothiazol-3 (2H)-one</p>	<p>EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6</p>	≥1 - <3	<p>Xn; R22 Xi; R41, R38 R43 N; R50</p>	<p>Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Skin Corr. 1A, H314</p>	[1]
	<p>sodium hydroxide</p> <p>REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6</p>	≥1 - <3	C; R35	<p>Eye Dam. 1, H318</p>	[1] [2]
<p>Switzerland</p> <p>2,2-benzisothiazol-3 (2H)-one</p>	<p>EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6</p>	≥1 - <3	<p>Xn; R22 Xi; R41, R38 R43 N; R50</p>	<p>Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Skin Corr. 1A, H314</p>	[1]
	<p>sodium hydroxide</p> <p>REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6</p>	≥1 - <3	C; R35	<p>Eye Dam. 1, H318</p>	[1] [2]



SECTION 3: Composition/information on ingredients

oxydipropanol	REACH #: 01-2119456811-38 EC: 246-770-3 CAS: 25265-71-8	≥5 - <10	Not classified.	Not classified.	[2]
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Eye Dam. 1, H318	[1] [2]
Turkey					
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Eye Dam. 1, H318	[1] [2]
United Kingdom (UK)					
1,2-benzisothiazol-3 (2H)-one	EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≥1 - <3	Xn; R22 Xi; R41, R38 R43 N; R50	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
sodium hydroxide	REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≥1 - <3	C; R35	Eye Dam. 1, H318	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

- : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

SECTION 4: First aid measures

- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.



SECTION 6: Accidental release measures

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- 7.2 Conditions for safe storage, including any incompatibilities** : Store between the following temperatures: 0 to 30°C (32 to 86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
<p>Europe No exposure limit value known.</p> <p>Austria Sodium hydroxide</p> <p>Belgium Sodium hydroxide</p>	<p>GKV_MAK (Austria, 12/2011). CEIL: 4 mg/m³, 8 times per shift, 5 minutes. Form: inhalable fraction TWA: 2 mg/m³ 8 hours. Form: inhalable fraction</p> <p>Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). M: 2 mg/m³</p>



SECTION 8: Exposure controls/personal protection

Bulgaria

Sodium hydroxide

България Министерство на труда и социалната политика и Министерството на здравеопазването (Bulgaria, 1/2012).
Limit value 8 hours: 2 mg/m³ 8 hours. Form: aerosols

Croatia

Sodium hydroxide

MinGoRP GVI/KGVI (Croatia, 6/2013).
STELV: 2 mg/m³ 15 minutes.

Czech Republic

Sodium hydroxide

MZCR PEL/NPK-P (Czech Republic, 1/2013).
STEL: 2 mg/m³ 15 minutes.
TWA: 1 mg/m³ 8 hours.

Denmark

Sodium hydroxide

Arbejdstilsynet (Denmark, 10/2012).
CEIL: 2 mg/m³

Estonia

Sodium hydroxide

Töökeskonna keemiliste ohutegurite piirnormid määrus nr 293 (Estonia, 1/2008).
TWA: 1 mg/m³ 8 hours.
*: 2 mg/m³

Finland

Sodium hydroxide

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014).
CEIL: 2 mg/m³ 8 hours.

France

Sodium hydroxide

Ministère du travail (France, 7/2012). Notes: Ministry of Labour (Brochure INRS Ed 984, July 2012). Indicative exposure limits
TWA: 2 mg/m³ 8 hours.

Germany

Oxydipropanol

MAK-Werte Liste (Germany, 6/2014). Absorbed through skin.
PEAK: 200 mg/m³, 4 times per shift, 15 minutes. Form: inhalable fraction
TWA: 100 mg/m³ 8 hours. Form: inhalable fraction
TRGS900 AGW (Germany, 4/2014). Absorbed through skin.
TWA: 100 mg/m³ 8 hours. Form: inhalable fraction
PEAK: 200 mg/m³ 15 minutes. Form: inhalable fraction

Greece

Sodium hydroxide

Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012).
STEL: 2 mg/m³ 15 minutes.
TWA: 2 mg/m³ 8 hours.

Hungary

Sodium hydroxide

25/2000. (IX. 30.) EüM-SzCsM együttes rendelet (Hungary, 12/2011).
TWA: 2 mg/m³ 8 hours.
PEAK: 2 mg/m³ 15 minutes.

Ireland

Sodium hydroxide

NAOSH (Ireland, 12/2011).
OELV-15min: 2 mg/m³ 15 minutes.

Italy

No exposure limit value known.

Latvia

Sodium hydroxide

Ministru kabineta - AER (Latvia, 2/2011).
TWA: 0.5 mg/m³ 8 hours.



SECTION 8: Exposure controls/personal protection

Lithuania

sodium hydroxide

Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007).
CEIL: 2 mg/m³

Netherlands

No exposure limit value known.

Norway

sodium hydroxide

FOR-2011-12-06-1358 (Norway, 1/2013).
CEIL: 2 mg/m³

Poland

sodium hydroxide

Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014).
STEL: 1 mg/m³ 15 minutes.
TWA: 0.5 mg/m³ 8 hours.

Portugal

sodium hydroxide

Instituto Português da Qualidade (Portugal, 3/2007).
CEIL: 2 mg/m³

Romania

sodium hydroxide

HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012). Notes: expressed as sodium hydroxide
VLA: 1 mg/m³, (expressed as sodium hydroxide) 8 hours.
Short term: 3 mg/m³, (expressed as sodium hydroxide) 15 minutes.

Slovakia

sodium hydroxide

Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011).
TWA: 2 mg/m³ 8 hours.

Slovenia

sodium hydroxide

Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010).
TWA: 2 mg/m³ 8 hours. Form: inhalable fraction
KTV: 2 mg/m³, 4 times per shift, 15 minutes. Form: inhalable fraction

Spain

sodium hydroxide

INSHT (Spain, 1/2014).
STEL: 2 mg/m³ 15 minutes.

Sweden

sodium hydroxide

AFS 2011:18 (Sweden, 12/2011).
CEIL: 2 mg/m³ 15 minutes. Form: Inhalable dust
TWA: 1 mg/m³ 8 hours. Form: Inhalable dust

Switzerland

oxydipropanol

SUVA (Switzerland, 1/2014).
STEL: 280 mg/m³ 15 minutes. Form: Inhalable dust (total dust)
TWA: 140 mg/m³ 8 hours. Form: Inhalable dust (total dust)

sodium hydroxide

SUVA (Switzerland, 1/2014). Notes: not temporary
STEL: 2 mg/m³ 15 minutes. Form: Inhalable dust (total dust)
TWA: 2 mg/m³ 8 hours. Form: Inhalable dust (total dust)

Turkey

sodium hydroxide

NIOSH REL (United States, 10/2013).
CEIL: 2 mg/m³

United Kingdom (UK)

sodium hydroxide

EH40/2005 WELs (United Kingdom (UK), 12/2011).
STEL: 2 mg/m³ 15 minutes.



SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: safety glasses with side-shields

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): disposable vinyl

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: overall

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: None assigned.



SECTION 8: Exposure controls/personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Liquid.
Colour	: Clear.
Odour	: Aromatic. [Strong]
pH	: 12.67
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Relative density	: 1.04
Solubility(ies)	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Not available.
VOC content	: 8.4 % (w/w)

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: acids
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 toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
-	LD50 Oral	Rat - Female	2001 mg/kg	-
1,2-benzisothiazol-3(2H)-one	LD50 Oral	Rat	1020 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 Percent	-
sodium hydroxide	Eyes - Severe irritant	Monkey	-	24 hours 1 Percent	-
	Eyes - Mild irritant	Rabbit	-	400 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes	-
	Skin - Mild irritant	Human	-	1 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 Percent	-
				24 hours 500 milligrams	-

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : Causes severe burns. May cause an allergic skin reaction.



SECTION 11: Toxicological information

Eye contact : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

Ingestion : Adverse symptoms may include the following:
stomach pains

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-benzisothiazol-3(2H)-one sodium hydroxide	Acute EC50 1.1 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 10 to 20 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 167 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 196 mg/l Marine water	Fish - Poecilia reticulata - Young	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.



SECTION 12: Ecological information

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)




Waste code	Waste designation
16 03 03*	inorganic wastes containing dangerous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN3266	3266	3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, 1,2-benzisothiazol-3(2H)-one)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, 1,2-benzisothiazol-3(2H)-one)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, 1,2-benzisothiazol-3(2H)-one)
14.3 Transport hazard class(es)	8 	8 	8 
14.4 Packing group	III	III	III

SECTION 14: Transport information

14.5 Environmental hazards	Yes.	Yes.	No.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Tunnel code</u> E	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules (EmS)</u> F-A, S-B	The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Europe inventory : All components are listed or exempted.

National regulations

Austria

Belgium

Bulgaria

Croatia

Czech Republic

Denmark

Estonia

Finland

France

Professional Disease(s) - Table number: 84

Germany

Hazard class for water : 2 Appendix No. 4

Greece

Hungary

Ireland

Italy



SECTION 15: Regulatory information

[Latvia](#)

[Lithuania](#)

[Netherlands](#)

[Norway](#)

[Poland](#)

[Portugal](#)

[Romania](#)

[Slovakia](#)

[Slovenia](#)

[Spain](#)

[Sweden](#)

[Switzerland](#)

[Turkey](#)

[United Kingdom \(UK\)](#)

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Date of printing : 07.12.2016

Date of issue/ Date of revision : 30.11.2016

Date of previous issue : 29.11.2016

Version : 2.17

Notice to reader

☑ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
☑ Skin Corr. 1, H314	On basis of test data
Eye Dam. 1, H318	On basis of test data
Skin Sens. 1, H317	Calculation method

Europe

Full text of abbreviated H statements : H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

Full text of classifications [CLP/GHS] : Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1
Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Skin Corr. 1, H314 SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1A, H314 SKIN CORROSION/IRRITATION - Category 1A
Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1



Full text of abbreviated R phrases : R22- Harmful if swallowed.
R35- Causes severe burns.
R41- Risk of serious damage to eyes.
R38- Irritating to skin.
R36/38- Irritating to eyes and skin.
R43- May cause sensitisation by skin contact.
R50- Very toxic to aquatic organisms.

Full text of classifications [DSD/DPD] : C - Corrosive
Xn - Harmful
Xi - Irritant
N - Dangerous for the environment

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Fernox SDS CLP Europe

