

SAFETY DATA SHEET

HVAC F1 10Ltrs

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

1.1 Product identifier

Product name : HVAC F1 10Ltrs

Product code 57572

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-boiler treatment. 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

Date of issue/Date of revision : 30.11.2016

Product definition : Mixture

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

Not classified.

Ingredients of unknown

toxicity

Ingredients of unknown

ecotoxicity

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

Europe



HVAC F1 10Ltrs 2/20

SECTION 2: Hazards identification

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.

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 : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable. : Not applicable. Response **Storage** : Not applicable. : Not applicable. **Disposal**

Hazardous ingredients

Supplemental label

elements

: Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

		Classification		
Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
		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.	
REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥10 - <25	Not classified.	Not classified.	[2]
REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
EC: 202-394-1		Xi; R36	Eye Irrit. 2, H319	
CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411	
	REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6 REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #: 01-2119979079-20	REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6 REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #: 01-2119979079-20 EC: 202-394-1	REACH #: 01-2119979079-20 5	REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 EACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6 REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #: 01-2119979079-20 EC: 202-394-1 EC: 203-394-1 EC: 203-394-1 EC: 203-394-1 EC: 203-394-1 EC: 202-394-1 EXICAL REPORT



SECTION 3: Composition/information on ingredients

2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8	≥10 - <25	Not classified.	Not classified.	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	CAS: 102-71-6 REACH #: 01-2119489495-21 EC: 231-551-7	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	CAS: 10102-40-6 REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Bulgaria					
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Croatia					
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥1 - <3	Not classified.	Not classified.	-
Czech Republic	0,10,0,00				
₹,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥10 - <25	Not classified.	Not classified.	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Denmark					
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥10 - <25	Not classified.	Not classified.	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	



SECTION 3: Composition/information on ingredients

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Estonia					
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥10 - <25	Not classified.	Not classified.	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Finland					
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥10 - <25	Not classified.	Not classified.	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
France					
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1	≥1 - <2. 5	Xi; R36	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]
	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411	
Germany					
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7	≥1 - <2. 5	Xn; R22 Xi; R36 R52/53	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1]
Greece					
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1	≥1 - <2. 5	Xn; R22 Xi; R36	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]
	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411	
Hungary	DEAOU."		Nick class (C.)	Niet elee 16 1	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1	≥1 - <2. 5	Xn; R22 Xi; R36	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]
	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411	
Ireland					
I	T.	I .	1	1	1

SECTION 3: Composition/information on ingredients

2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8	≥10 - <25	Not classified.	Not classified.	[2]
	CAS: 102-71-6				
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
propane-1,2-diol	EC: 202-394-1 CAS: 95-14-7 REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥1 - <3	Xi; R36 R52/53 Not classified.	Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Not classified.	[2]
Italy					
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7	≥1 - <2. 5	Xn; R22 Xi; R36 R52/53	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1]
Latvia				,	
sebacic acid	REACH #: 01-2119519212-52 EC: 203-845-5 CAS: 111-20-6	≥5 - <10	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1	≥1 - <2. 5	Xn; R22 Xi; R36	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1] [2]
propane-1,2-diol	CAS: 95-14-7 REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥1 - <3	R52/53 Not classified.	Aquatic Chronic 2, H411 Not classified.	[2]
Lithuania	0,10,0,000				
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥10 - <25	Not classified.	Not classified.	[2]
sebacic acid	REACH #: 01-2119519212-52 EC: 203-845-5 CAS: 111-20-6	≥5 - <10	Not classified.	Not classified.	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	,	Acute Tox. 4, H302	[1]
propane-1,2-diol	EC: 202-394-1 CAS: 95-14-7 REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥1 - <3	Xi; R36 R52/53 Not classified.	Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Not classified.	[2]
Netherlands					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	,	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	

SECTION 3: Composition/information on ingredients

REACH #						
01-2119486482-31 C25 C230-3049-8 C25 C230-3049-8 C25 C230-3049-8 C25 C230-3049-8 C25 C231-561-7 C25 C231-561-7 C25 C230-3049-8 C25 C330-3049-8	Norway					
REACH #: 23 - <5 Not classified. Not classified. Z	2,2',2"-nitrilotriethanol	01-2119486482-31 EC: 203-049-8		Not classified.	Not classified.	[2]
benzotriazole REACH # 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 REACH # 01-211945809-23 EC: 200-338-0 CAS: 57-56-6 Poland Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- CAS: 95-14-7 CA	Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7	≥3 - <5	Not classified.	Not classified.	[2]
CAS: 95-14-7 REACH # 01-2119456809-23 EC: 200-338-0	benzotriazole	REACH #: 01-2119979079-20			·	[1]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	propane-1,2-diol	CAS: 95-14-7 REACH #: 01-2119456809-23 EC: 200-338-0	≥1 - <3	R52/53	Aquatic Chronic 2, H411	[2]
Sodium, hydrate (1:2: 21:3489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #:	Poland					
benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 ≥1 - <2. 5 Xn; R22 Acute Tox. 4, H302 [1] Portugal Portugal REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6 REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 benzotriazole ≥10 - 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 Not classified. Not classified. I2] Not classified. Not classified. Not classified. I2] Reach #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 ≥1 - <2. 5 Xn; R22 Acute Tox. 4, H302 I2] Reach #: 01-2119489495-21 EC: 202-394-1 CAS: 95-14-7 ≥3 - <5	Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	01-2119489495-21 EC: 231-551-7	≥3 - <5	Not classified.	Not classified.	[2]
Portugal P(2',2"-nitrilotriethanol REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6 REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95	benzotriazole	REACH #:		Xn; R22	Acute Tox. 4, H302	[1]
REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6 REACH #: 01-2119489495-21 EC: 202-394-1 CAS: 95-14-7 CAS: 10102-40-6 EACH #: 01-2119979079-20 EC: 202-394-1 CAS: 10102-40-6 EACH #: 01-2119979079-20 EC: 231-551-7 CAS: 10102-40-6 EACH #: 01-2119979079-20 EC: 202-394-1 EC: 231-551-7 CAS: 10102-40-6 EACH #: 01-2119979079-20 EC: 202-394-1 EC: 231-551-7 CAS: 10102-40-6 EACH #: 01-2119979079-20 EC: 202-394-1 EC: 231-551-7 CAS: 10102-40-6 EACH #: 01-2119979079-20 EC: 202-394-1 EC: 231-551-7 CAS: 10102-40-6 EACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 EC: 231-551-7 CAS: 10102-40-6 EACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 EC: 231-551-7 CAS: 10102-40-6 EC: 231-551-7 CAS: 10102-40-6 EC: 202-394-1 CAS: 95-14-7 EC: 231-551-7 CAS: 10102-40-6 EC: 202-394-1 CAS: 95-14-7 EC: 231-551-7 CAS: 10102-40-6 EC: 202-394-1 EC: 231-551-7 EC: 231				1 *		
O1-2119486482-31 EC: 203-049-8 CAS: 102-71-6 REACH #:	Portugal					
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 01-2119979079-20 EC: 2031-551-7 CAS: 10102-40-6 REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 01-2119979079-20 EC: 202-394-1 CAS: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 ≥3 - <5 Not classified.	2,2',2"-nitrilotriethanol	01-2119486482-31 EC: 203-049-8		Not classified.	Not classified.	[2]
benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 Romania Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- benzotriazole Molybdate (MoO42-), EC: 201-551-7 CAS: 10102-40-6 Benzotriazole Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- Slovakia Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- benzotriazole Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- CAS: 95-14-7 Not classified. Siovakia Not classified.	Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7	≥3 - <5	Not classified.	Not classified.	[2]
Romania Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- benzotriazole Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- Slovakia Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 Slovakia Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- benzotriazole REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- Slovakia Not classified.	benzotriazole	REACH #: 01-2119979079-20	I		·	[1]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 ≥3 - <5				1		
sodium, hydrate (1:2: 2), (T-4)- 2), (T-4)- 2), (T-4)- 3						
benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 Slovakia Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)- benzotriazole REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6 REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 ≥1 - <2. Xn; R22	Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	01-2119489495-21 EC: 231-551-7	≥3 - <5	Not classified.	Not classified.	[2]
Slovakia REACH #: ≥3 - <5 Not classified. Not classified. [2] Molybdate (MoO42-), sodium, hydrate (1:2: REACH #: 01-2119489495-21 Not classified. Not classified. [2] 2), (T-4)- EC: 231-551-7 CAS: 10102-40-6 ERACH #: 21 - <2.	benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1		Xi; R36	Eye Irrit. 2, H319	[1]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	Slovakia				7	
CAS: 10102-40-6 REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7 CAS: 10102-40-6 REACH #:	Molybdate (MoO42-), sodium, hydrate (1:2:	01-2119489495-21	≥3 - <5	Not classified.	Not classified.	[2]
CAS: 95-14-7 R52/53 Aquatic Chronic 2, H411	benzotriazole	CAS: 10102-40-6 REACH #: 01-2119979079-20	I		·	[1]
	Slovenia					



SECTION 3: Composition/information on ingredients

2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8	≥10 - <25	Not classified.	Not classified.	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	CAS: 102-71-6 REACH #: 01-2119489495-21 EC: 231-551-7	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	CAS: 10102-40-6 REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7	3	Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Spain					
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8	≥10 - <25	Not classified.	Not classified.	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	CAS: 102-71-6 REACH #: 01-2119489495-21 EC: 231-551-7	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	CAS: 10102-40-6 REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Sweden					
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥10 - <25	Not classified.	Not classified.	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Switzerland					
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥10 - <25	Not classified.	Not classified.	[2]
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥3 - <5	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Turkey					
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1	≥1 - <2. 5	Xn; R22 Xi; R36	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]
	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411	
United Kingdom (UK)					



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SECTION 3: Composition/information on ingredients

Molybdate (MoO42-), sodium, hydrate (1:2:	REACH #: 01-2119489495-21	≥3 - <5	Not classified.	Not classified.	[2]
2), (T-4)-	EC: 231-551-7 CAS: 10102-40-6				
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥1 - <3	Not classified.	Not classified.	[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 : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur. 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 Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

: Wash out mouth with water. Remove victim to fresh air and keep at rest in a Ingestion

> position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. : No known significant effects or critical hazards. Ingestion

Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data. **Skin contact** : No specific data. Ingestion : No specific data.

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4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid measures

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.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen 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. 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).

6.3 Methods and material for containment and cleaning up

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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. 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 noncombustible, 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.



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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

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : 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: 5 to 30°C (41 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. 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 **Industrial sector specific** : Not available. : Not available.

solutions

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
Europe	
No exposure limit value known.	
Austria	
2,2',2"-nitrilotriethanol	GKV_MAK (Austria, 12/2011). Skin sensitiser. PEAK: 10 mg/m³, 4 times per shift, 15 minutes. Form: inhalable fraction PEAK: 1.6 ppm, 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 5 mg/m³ 8 hours. Form: inhalable fraction TWA: 0.8 ppm 8 hours. Form: inhalable fraction
Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-	GKV_MAK (Austria, 12/2011). PEAK: 10 mg/m³, (measured as Mo), 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 5 mg/m³, (measured as Mo) 8 hours. Form: inhalable fraction
Belgium	



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SECTION 8: Exposure controls/personal protection

2,2',2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Bulgaria

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Croatia

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

propane-1,2-diol

Czech Republic

2,2',2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Denmark

2,2',2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Estonia

2.2'.2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Finland

2,2',2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

France

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

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Germany

No exposure limit value known.

Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014).

TWA: 5 mg/m³ 8 hours.

Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014).

TWA: 0.5 mg/m³, (as Mo) 8 hours. Form: respirable fraction

България Министерство на труда и социалната политика и Министерството на здравеопазването (Bulgaria, 1/2012).

Limit value 8 hours: 5 mg/m³, (as Molybdenum) 8 hours.

MinGoRP GVI/KGVI (Croatia, 6/2013).

ELV: 5 mg/m³, (as Mo) 8 hours.

STELV: 10 mg/m³, (as Mo) 15 minutes. MinGoRP GVI/KGVI (Croatia, 6/2013).

ELV: 10 mg/m³ 8 hours. Form: particulates

ELV: 474 mg/m³ 8 hours. Form: total vapour and particulates

ELV: 150 ppm 8 hours.

MZCR PEL/NPK-P (Czech Republic, 1/2013). Absorbed through skin.

STEL: 10 mg/m3 15 minutes. STEL: 1.64 ppm 15 minutes. TWA: 5 mg/m³ 8 hours. TWA: 0.82 ppm 8 hours.

MZCR PEL/NPK-P (Czech Republic, 1/2013).

TWA: 5 mg/m³, (as Mo) 8 hours. STEL: 25 mg/m³, (as Mo) 15 minutes.

Arbejdstilsynet (Denmark, 10/2012).

TWA: 3.1 mg/m³ 8 hours. TWA: 0.5 ppm 8 hours.

Arbejdstilsynet (Denmark, 10/2012).

TWA: 5 mg/m³, (calculated as Mo) 8 hours.

Töökeskkonna keemiliste ohutegurite piirnormid määrus nr 293 (Estonia, 1/2008). Skin sensitiser.

STEL: 10 mg/m3 15 minutes. TWA: 5 mg/m³ 8 hours.

Töökeskkonna keemiliste ohutegurite piirnormid määrus nr 293 (Estonia, 1/2008).

TWA: 5 mg/m³ 8 hours. Form: respirable dust

TWA: 5 mg/m³ 8 hours.

TWA: 10 mg/m3 8 hours. Form: total dust

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014).

TWA: 5 mg/m³ 8 hours.

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014).

TWA: 0.5 mg/m³, (calculated as Mo) 8 hours.

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

TWA: 5 mg/m³, (as Mo) 8 hours. STEL: 10 mg/m³, (as Mo) 15 minutes. HVAC F1 10Ltrs 12/20

SECTION 8: Exposure controls/personal protection

Greece

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Hungary

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Ireland

2,2',2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

propane-1,2-diol

Italy

No exposure limit value known.

Latvia

sebacic acid

benzotriazole

propane-1,2-diol

Lithuania

2,2',2"-nitrilotriethanol

sebacic acid

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

propane-1,2-diol

Netherlands

No exposure limit value known.

Norway

2.2'.2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

propane-1,2-diol

Poland

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

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Portugal

Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012).

TWA: 5 mg/m³, (as Mo) 8 hours.

25/2000. (IX. 30.) EüM-SzCsM együttes rendelet (Hungary, 12/2011).

TWA: 5 mg/m³, (as Mo) 8 hours. PEAK: 20 mg/m³, (as Mo) 15 minutes.

NAOSH (Ireland, 12/2011).

OELV-8hr: 5 mg/m³ 8 hours. NAOSH (Ireland, 12/2011).

OELV-8hr: 10 mg/m³, (as Mo) 8 hours. Form: Inhalable fraction OELV-8hr: 0.5 mg/m³, (as Mo) 8 hours. Form: respirable fraction

NAOSH (Ireland, 12/2011).

OELV-8hr: 10 mg/m³ 8 hours. Form: particulate

OELV-8hr: 470 mg/m³ 8 hours. Form: vapour and particulates OELV-8hr: 150 ppm 8 hours. Form: vapour and particulates

Ministru kabineta - AER (Latvia, 2/2011).

TWA: 4 mg/m³ 8 hours.

Ministru kabineta - AER (Latvia, 2/2011).

TWA: 5 ma/m³ 8 hours.

Ministru kabineta - AER (Latvia, 2/2011).

TWA: 7 mg/m³ 8 hours.

Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007). Skin sensitiser.

STEL: 10 mg/m³ 15 minutes. TWA: 5 mg/m³ 8 hours.

Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007).

TWA: 4 mg/m³ 8 hours.

Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007).

TWA: 5 mg/m³ 8 hours.

Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007).

TWA: 7 mg/m³ 8 hours.

FOR-2011-12-06-1358 (Norway, 1/2013).

TWA: 5 mg/m³ 8 hours.

FOR-2011-12-06-1358 (Norway, 1/2013).

TWA: 5 mg/m³, (calculated as Mo) 8 hours.

FOR-2011-12-06-1358 (Norway, 1/2013).

TWA: 79 mg/m³ 8 hours. TWA: 25 ppm 8 hours.

Rozporzadzenie Ministra Pracy i Polityki Spolecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014).

TWA: 4 mg/m³, (calculated as Mo) 8 hours.

STEL: 10 mg/m³, (calculated as Mo) 15 minutes.

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SECTION 8: Exposure controls/personal protection

2,2',2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2),

Romania

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Slovakia

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Slovenia

2.2'.2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Spain

2,2',2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Sweden

2,2',2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Switzerland

2,2',2"-nitrilotriethanol

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

Turkey

No exposure limit value known.

United Kingdom (UK)

Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-

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propane-1,2-diol

Instituto Português da Qualidade (Portugal, 3/2007).

TWA: 5 mg/m³ 8 hours.

Instituto Português da Qualidade (Portugal, 3/2007).

TWA: 0.5 mg/m³, (expressed as Mo) 8 hours. Form: respirable

HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012).

VLA: 2 mg/m3 8 hours.

Short term: 65 mg/m3 15 minutes.

Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011).

TWA: 5 mg/m³, (Molybdenum and its soluble compounds, as Mo) 8 hours.

Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010).

TWA: 5 mg/m³ 8 hours. Form: inhalable fraction

Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010).

TWA: 5 mg/m³, (measured as Mo) 8 hours. Form: inhalable fraction

KTV: 20 mg/m³, (measured as Mo), 4 times per shift, 15 minutes. Form: inhalable fraction

INSHT (Spain, 1/2014).

TWA: 5 mg/m³ 8 hours. INSHT (Spain, 1/2014).

TWA: 0.5 mg/m³, (as Mo) 8 hours. Form: respirable fraction

AFS 2011:18 (Sweden, 12/2011). Absorbed through skin.

STEL: 10 mg/m3 15 minutes. TWA: 5 mg/m³ 8 hours.

STEL: 1.6 ppm 15 minutes. TWA: 0.8 ppm 8 hours.

AFS 2011:18 (Sweden, 12/2011).

TWA: 5 mg/m³, (as Mo) 8 hours. Form: total dust

SUVA (Switzerland, 1/2014).

STEL: 20 mg/m³ 15 minutes. Form: Inhalable dust (total dust) TWA: 5 mg/m³ 8 hours. Form: Inhalable dust (total dust)

SUVA (Switzerland, 1/2014).

TWA: 5 mg/m³, (calculated as Mo) 8 hours. Form: Inhalable dust (total dust)

EH40/2005 WELs (United Kingdom (UK), 12/2011).

STEL: 10 mg/m³, (as Mo) 15 minutes. TWA: 5 mg/m³, (as Mo) 8 hours.

EH40/2005 WELs (United Kingdom (UK), 12/2011).

TWA: 10 mg/m³ 8 hours. Form: Particulate

TWA: 474 mg/m³ 8 hours. Form: Sum of vapour and particulates TWA: 150 ppm 8 hours. Form: Sum of vapour and particulates



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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

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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. 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: safety glasses with side-shields. Recommended: 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 or dusts.

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. < 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: 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.

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.

Environmental exposure controls

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: 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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Yellow. [Light] **Odour** : Aromatic. [Slight]

pH : 8 [Conc. (% w/w): 100%]

Melting point/freezing point : Not available. Initial boiling point and

boiling range

: Not available.

Flash point

Upper/lower flammability or

explosive limits

: Not available.

: [Product does not sustain combustion.]

Relative density

Solubility(ies) : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : Not available.

VOC content 1.8 % (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 : No specific data.

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
benzotriazole	LD50 Oral	Rat	560 mg/kg	-

Conclusion/Summary : Not available.

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Acute toxicity estimates



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SECTION 11: Toxicological information

Route	ATE value
Oral	23357.7 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
benzotriazole	Eyes - Severe irritant	Rabbit	-	100	-
				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: Not available.

routes of exposure

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Eye contact : No known significant effects or critical hazards.
 Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.Ingestion: No specific data.Skin contact: No specific data.Eye contact: No specific data.

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

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Potential chronic health effects

Not available.

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SECTION 11: Toxicological information

Conclusion/Summary: Not available.

General : No known significant effects or critical hazards.
 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

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition : Not available.

coefficient (Koc)

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 : Within the present knowledge of the supplier, this product is not regarded as

hazardous waste, as defined by EU Directive 91/689/EEC.

European waste catalogue (EWC)

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Waste code	Waste designation
16 03 06	organic wastes other than those mentioned in 16 03 05

Packaging

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SECTION 13: Disposal considerations

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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.
Additional information	-	-	-

14.6 Special precautions for : 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

: Not applicable.

on the manufacture. placing on the market and use of certain dangerous substances. mixtures and articles

Europe inventory : Not determined.

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National regulations

Other EU regulations

Austria Belgium Bulgaria



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SECTION 15: Regulatory information

Croatia

Czech Republic

Denmark

Estonia

Finland France

Professional Disease(s) - Table number: 84

Germany

: nwg Appendix No. 4 Hazard class for water

Greece Hungary <u>Ireland</u> <u>Italy</u> **Latvia**

Lithuania

Netherlands

Norway Poland

Portugal

Product/ingredient name	List name	Name on list	Classification	Notes
, , , ,		molibdénio, compostos solúveis	Carc. A3	-

Romania

Slovakia

Slovenia

Spain

Sweden

Switzerland

Turkey

United Kingdom (UK)

15.2 Chemical safety

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

SECTION 16: Other information

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revision

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Notice to reader

Indicates information that has changed from previously issued version.



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Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/20081

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]

ClassificationJustification

Not classified.

Europe

Full text of abbreviated H : H302 Harmful if swallowed.

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statements H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

: Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4

Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Full text of abbreviated R

phrases

: R22- Harmful if swallowed. R36- Irritating to eyes.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Full text of classifications

[DSD/DPD]

: Xn - Harmful Xi - Irritant

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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 quarantee that these are the only hazards that exist.

Fernox SDS CLP Europe

