

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

SAFETY DATA SHEET

Protector F1 Express (10x265ml)

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

1.1 Product identifier

Product name : Protector F1 Express (10x265ml)

Product code 58229

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

Date of issue/Date of revision : 30.11.2016

Product definition : Mixture

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

Aerosol 1, H222, H229

Ingredients of unknown

toxicity

Ingredients of unknown

ecotoxicity

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

Europe



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SECTION 2: Hazards identification

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

Classification : F+; R12

Physical/chemical : Extremely flammable.

hazards

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: Extremely flammable aerosol.

Pressurized container: may burst if heated.

Precautionary statements

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking. Do not spray on an open flame or other ignition source. Do not pierce

or burn, even after use.

Response : Not applicable.

Storage : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal : Not applicable.

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

Date of issue/Date of revision : 30.11.2016

			Class	sification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Europe					
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7	≥1 - <2. 5	Xn; R22 Xi; R36 R52/53 See Section 16 for the full text of the R-phrases declared above.	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	[1]
Austria					

Date of issue/Date of revision : 30.11.2016

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SECTION 3: Composition/information on ingredients

2,2',2"-nitrilotriethanol	REACH #:	≥25 -	Not classified.	Not classified.	[2]
E,E,E Thundure and its	01-2119486482-31	<50	140t oldsomed.	Not diagonica.	'
	EC: 203-049-8				
	CAS: 102-71-6				
Molybdate (MoO42-),	REACH #:	≥5 -	Not classified.	Not classified.	[2]
sodium, hydrate (1:2:	01-2119489495-21	<10			
2), (T-4)-	EC: 231-551-7				
	CAS: 10102-40-6		E. D40	FI 0 4 11000	101
propane	EC: 200-827-9	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	CAS: 74-98-6 Index: 601-003-00-5			Press. Gas, H280	
butane	REACH #:	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
Dutane	01-2119474691-32	25 - 15	1 1, 1812	1 laili. Gas 1, 11220	[-]
	EC: 203-448-7			Press. Gas, H280	
	CAS: 106-97-8			1 1000. 000, 11200	
	Index: 601-004-00-0				
benzotriazole	REACH #:	≥1 - <2.	Xn; R22	Acute Tox. 4, H302	[1]
	01-2119979079-20	5			
	EC: 202-394-1		Xi; R36	Eye Irrit. 2, H319	
	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411	
Belgium					
2,2',2"-nitrilotriethanol	REACH #:	≥25 -	Not classified.	Not classified.	[2]
, , , , , , , , , , , , , , , , , , ,	01-2119486482-31	<50	Trot olaboliloa.	Trot slassinga.	'
	EC: 203-049-8				
	CAS: 102-71-6				
Molybdate (MoO42-),	REACH #:	≥5 -	Not classified.	Not classified.	[2]
sodium, hydrate (1:2:	01-2119489495-21	<10			
2), (T-4)-	EC: 231-551-7				
	CAS: 10102-40-6				
propane	EC: 200-827-9	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	CAS: 74-98-6			Press. Gas, H280	
butane	Index: 601-003-00-5 REACH #:	>2 /5	F+; R12	Flam. Gas 1, H220	[2]
Dutane	01-2119474691-32	23 - \3	FT, K12	Flam. Gas 1, HZZU	[ح]
	EC: 203-448-7			Press. Gas, H280	
	CAS: 106-97-8			1 1000. 000, 11200	
	Index: 601-004-00-0				
benzotriazole	REACH #:	≥1 - <2.	Xn; R22	Acute Tox. 4, H302	[1]
	01-2119979079-20	5	,	· ·	
	EC: 202-394-1		Xi; R36	Eye Irrit. 2, H319	
	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411	
Bulgaria					
Molybdate (MoO42-),	REACH #:	≥5 -	Not classified.	Not classified.	[2]
sodium, hydrate (1:2:	01-2119489495-21	<10	Trot olaboliloa.	Trot siassinea.	'
2), (T-4)-	EC: 231-551-7				
,,,,,	CAS: 10102-40-6				
propane	EC: 200-827-9	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	CAS: 74-98-6			Press. Gas, H280	
	Index: 601-003-00-5				
butane	REACH #:	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	01-2119474691-32			D	
	EC: 203-448-7			Press. Gas, H280	
	CAS: 106-97-8				
benzotriazole	Index: 601-004-00-0 REACH #:	≥1 - <2.	Xn; R22	Acute Tox. 4, H302	[1]
DELIZULIAZUIE	01-2119979079-20	5	/\II, I\ZZ	ACUIC 108. 4, 17302	1
	EC: 202-394-1		Xi; R36	Eye Irrit. 2, H319	
	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411	
Croatia					
J. Jana					
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SECTION 3: Composition/information on ingredients

Molybdate (MoO42-), sodium, hydrate (1:2:	REACH #: 01-2119489495-21	≥5 - <10	Not classified.	Not classified.	[2]
2), (T-4)-	EC: 231-551-7 CAS: 10102-40-6				
butane	REACH #:	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	01-2119474691-32 EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280	
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.	-
Czech Republic					
₹,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥25 - <50	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	≥5 - <10	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	≥25 - <50	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	≥5 - <10	Not classified.	Not classified.	[2]
propane	EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
butane	REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280	
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	
Estonia	DEAGUE"		.	N () (20)	101
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥25 - <50	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 CAS: 10102-40-6	≥5 - <10	Not classified.	Not classified.	[2]
propane	EC: 200-827-9	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]

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SECTION 3. CON	nposition/informa	uon or	i ingredients		
	CAS: 74-98-6			Press. Gas, H280	
butane	Index: 601-003-00-5 REACH #:	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	01-2119474691-32 EC: 203-448-7 CAS: 106-97-8			Press. Gas, H280	
benzotriazole	Index: 601-004-00-0 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	≥25 - <50	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	≥5 - <10	Not classified.	Not classified.	[2]
propane	EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
butane	REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280	
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	≥5 - <10	Not classified.	Not classified.	[2]
butane	CAS: 10102-40-6 REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280	
benzotriazole	REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
0	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
Germany	EQ. 000 00E 0		F. B40	El 0 () () ()	101
propane	EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
butane	REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280	
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]
Greece	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411	

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SECTION 3: Composition/information on ingredie	nts
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SECTION 3: Composition/information on ingredients								
Molybdate (MoO42-),	REACH #:	≥5 -	Not classified.	Not classified.	[2]			
sodium, hydrate (1:2:	01-2119489495-21	<10						
2), (T-4)-	EC: 231-551-7							
	CAS: 10102-40-6	>0 45	F., D40	Flam Can 4 11000	101			
propane	EC: 200-827-9 CAS: 74-98-6	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]			
	Index: 601-003-00-5			Piess. Gas, Fizou				
butane	REACH #:	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]			
33.00.10	01-2119474691-32		, , , , , , ,					
	EC: 203-448-7			Press. Gas, H280				
	CAS: 106-97-8							
	Index: 601-004-00-0		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		[4]			
benzotriazole	REACH #:	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]			
	01-2119979079-20 EC: 202-394-1	3	Xi; R36	Eye Irrit. 2, H319				
	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411				
Hungary			. 102.00	7 140000 0111 01110 2, 11111				
Molybdate (MoO42-),	DEACH #	≥5 -	Not algorified	Not classified.	[2]			
sodium, hydrate (1:2:	REACH #: 01-2119489495-21	<10	Not classified.	Not classified.	[2]			
2), (T-4)-	EC: 231-551-7	10						
	CAS: 10102-40-6							
butane	REACH #:	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]			
	01-2119474691-32							
	EC: 203-448-7			Press. Gas, H280				
	CAS: 106-97-8 Index: 601-004-00-0							
benzotriazole	REACH #:	>1 - <2	Xn; R22	Acute Tox. 4, H302	[1]			
50112011142010	01-2119979079-20	5	7(1), 1 (22	7.00to 10x: 1,11002				
	EC: 202-394-1		Xi; R36	Eye Irrit. 2, H319				
	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411				
Ireland								
2,2',2"-nitrilotriethanol	REACH #:	≥25 -	Not classified.	Not classified.	[2]			
	01-2119486482-31	<50						
	EC: 203-049-8							
Maluladata (Ma O 40)	CAS: 102-71-6	\	Not descitical	Not along if and	[0]			
Molybdate (MoO42-), sodium, hydrate (1:2:	REACH #: 01-2119489495-21	≥5 - <10	Not classified.	Not classified.	[2]			
2), (T-4)-	EC: 231-551-7	10						
	CAS: 10102-40-6							
propane	EC: 200-827-9	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]			
	CAS: 74-98-6			Press. Gas, H280				
le et a se	Index: 601-003-00-5	٠	E. D40	Flam 0 - 4 11000	[0]			
butane	REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]			
	EC: 203-448-7			Press. Gas, H280				
	CAS: 106-97-8			1 1000. 040, 11200				
	Index: 601-004-00-0							
benzotriazole	REACH #:		Xn; R22	Acute Tox. 4, H302	[1]			
	01-2119979079-20	5	V: D00	F lock 0 11040				
	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 #:	≥1 - <3	Not classified.	Not classified.	[2]			
propario 1,2 dioi	01-2119456809-23	-1	Ttot oldoomod.	Trot diagonioa.				
	EC: 200-338-0							
	CAS: 57-55-6							
Italy								
benzotriazole	REACH #:	≥1 - <2.	Xn; R22	Acute Tox. 4, H302	[1]			
	01-2119979079-20	5						
	EC: 202-394-1		Xi; R36	Eye Irrit. 2, H319				
	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411				
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SECTION 3: Composition/information on ingredients

Latvia					
sebacic acid	REACH #: 01-2119519212-52 EC: 203-845-5	≥10 - <25	Not classified.	Not classified.	[2]
propane	CAS: 111-20-6 EC: 200-827-9 CAS: 74-98-6	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
butane	Index: 601-003-00-5 REACH #: 01-2119474691-32 EC: 203-448-7 CAS: 106-97-8	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
benzotriazole	Index: 601-004-00-0 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					
2 ,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥25 - <50	Not classified.	Not classified.	[2]
sebacic acid	REACH #: 01-2119519212-52 EC: 203-845-5 CAS: 111-20-6	≥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	≥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]
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]
Netherlands					
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]
Norway					
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥25 - <50	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	≥5 - <10	Not classified.	Not classified.	[2]
propane	EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
butane	REACH #:	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]



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	01-2119474691-32 EC: 203-448-7 CAS: 106-97-8			Press. Gas, H280	
benzotriazole	Index: 601-004-00-0 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]
Poland					
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥5 - <10	Not classified.	Not classified.	[2]
propane	EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
butane	REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280	
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	
Portugal					
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥25 - <50	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	≥5 - <10	Not classified.	Not classified.	[2]
propane	EC: 200-827-9 CAS: 74-98-6	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
butane	Index: 601-003-00-5 REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280	
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	
Romania					
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7 CAS: 10102-40-6	≥5 - <10	Not classified.	Not classified.	[2]
propane	EC: 200-827-9 CAS: 74-98-6	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
benzotriazole	Index: 601-003-00-5 REACH #: 01-2119979079-20	≥1 - <2. 5	Xn; R22	Acute Tox. 4, H302	[1]
	EC: 202-394-1		Xi; R36	Eye Irrit. 2, H319	

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SECTION 3: Composition/information on ingredients

	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411	
Slovakia					
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7	≥5 - <10	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	
Slovenia					
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥25 - <50	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	≥5 - <10	Not classified.	Not classified.	[2]
propane	EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
butane	REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280	
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	
Spain					
2 ,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥25 - <50	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	≥5 - <10	Not classified.	Not classified.	[2]
propane	EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
butane	REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]
	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280	
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	
Sweden					

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SECTION 3: Composition/information on ingredients						
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥25 - <50	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	≥5 - <10	Not classified.	Not classified.	[2]	
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]	
Switzerland						
2,2',2"-nitrilotriethanol	REACH #: 01-2119486482-31 EC: 203-049-8 CAS: 102-71-6	≥25 - <50	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	≥5 - <10	Not classified.	Not classified.	[2]	
propane	EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]	
butane	REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]	
	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280		
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]	
Turkey	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411		
Turkey	FC: 200 027 0	>0 45	F., D40	Flow Coo 1 11220	[2]	
propane	EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280		
butane	REACH #: 01-2119474691-32 EC: 203-448-7	≥3 - <5	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]	
benzotriazole	CAS: 106-97-8 Index: 601-004-00-0 REACH #:	>1 - <2	Xn; R22	Acute Tox. 4, H302	[1]	
Sonzothazoro	01-2119979079-20 EC: 202-394-1	5	Xi; R36	Eye Irrit. 2, H319		
United Kingdom (UK)	CAS: 95-14-7		R52/53	Aquatic Chronic 2, H411		
Molybdate (MoO42-), sodium, hydrate (1:2: 2), (T-4)-	REACH #: 01-2119489495-21 EC: 231-551-7	≥5 - <10	Not classified.	Not classified.	[2]	
butane	CAS: 10102-40-6 REACH #: 01-2119474691-32	≥3 - <5	F+; R12	Flam. Gas 1, H220	[2]	
	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0			Press. Gas, H280		
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		
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

Protector F1 Express (10x265ml)							
SECTION 3: Composition/information on ingredients							
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

Eve contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: 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. Get medical attention if adverse health effects persist or are severe. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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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SECTION 4: First aid measures

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 : Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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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).



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SECTION 6: Accidental release measures

6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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 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. Contaminated absorbent material may pose the same hazard as the spilt product.

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). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. 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 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. Eliminate all ignition sources. 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** solutions

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: Not available. : Not available.

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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

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
propane	GKV_MAK (Austria, 12/2011). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. CEIL: 2000 ppm, 3 times per shift, 60 minutes. CEIL: 3600 mg/m³, 3 times per shift, 60 minutes.
butane	GKV_MAK (Austria, 12/2011). TWA: 800 ppm 8 hours. CEIL: 3800 mg/m³, 3 times per shift, 60 minutes. CEIL: 1600 ppm, 3 times per shift, 60 minutes. TWA: 1900 mg/m³ 8 hours.
Belgium	
2,2',2"-nitrilotriethanol	Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014).
Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-propane	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 Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). TWA: 1000 ppm 8 hours. Form: gas
butane	Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). TWA: 1000 ppm 8 hours. Form: gas
Bulgaria	
Molybdate (MoO42-), sodium, hydrate (1:2:2), (T-4)-	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.
propane	България Министерство на труда и социалната политика и Министерството на здравеопазването (Bulgaria, 1/2012). Limit value 8 hours: 1800 mg/m³ 8 hours.
butane	България Министерство на труда и социалната политика и Министерството на здравеопазването (Bulgaria, 1/2012). Limit value 8 hours: 1900 mg/m³ 8 hours.
Croatia	

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SECTION 8: Exposure controls/personal protection

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

(T-4)-

butane

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)-

propane

butane

Estonia

2,2',2"-nitrilotriethanol

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

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propane

butane

Finland

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).

STELV: 1810 mg/m³ 15 minutes. STELV: 750 ppm 15 minutes. ELV: 1450 mg/m3 8 hours.

ELV: 600 ppm 8 hours.

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.

Arbeidstilsynet (Denmark, 10/2012). TWA: 5 mg/m³, (calculated as Mo) 8 hours.

Arbejdstilsynet (Denmark, 10/2012).

TWA: 1000 ppm 8 hours. TWA: 1800 mg/m³ 8 hours.

Arbejdstilsynet (Denmark, 10/2012).

TWA: 500 ppm 8 hours. TWA: 1200 mg/m³ 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

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

TWA: 1800 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.

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

TWA: 1500 mg/m³ 8 hours. TWA: 800 ppm 8 hours.

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SECTION 8: Exposure controls/personal protection

2,2',2"-nitrilotriethanol

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

TWA: 5 mg/m³ 8 hours.

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

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

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

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

TWA: 800 ppm 8 hours. TWA: 1500 mg/m³ 8 hours. STEL: 1100 ppm 15 minutes. STEL: 2000 mg/m³ 15 minutes.

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

STEL: 1000 ppm 15 minutes. TWA: 800 ppm 8 hours.

France

butane

propane

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

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.

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

> TWA: 800 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.

Germany

propane

TRGS900 AGW (Germany, 4/2014).

TWA: 1800 mg/m³ 8 hours. PEAK: 7200 mg/m³ 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm 15 minutes.

MAK-Werte Liste (Germany, 6/2014).

TWA: 1000 ppm 8 hours.

PEAK: 4000 ppm, 4 times per shift, 15 minutes.

TWA: 1800 mg/m³ 8 hours.

PEAK: 7200 mg/m³, 4 times per shift, 15 minutes.

TRGS900 AGW (Germany, 4/2014).

TWA: 2400 mg/m³ 8 hours. PEAK: 9600 mg/m³ 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm 15 minutes.

MAK-Werte Liste (Germany, 6/2014).

TWA: 1000 ppm 8 hours.

PEAK: 4000 ppm, 4 times per shift, 15 minutes.

TWA: 2400 mg/m³ 8 hours.

PEAK: 9600 mg/m³, 4 times per shift, 15 minutes.

Greece

propane

butane

butane

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

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

TWA: 5 mg/m³, (as Mo) 8 hours.

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

TWA: 1000 ppm 8 hours. TWA: 1800 mg/m³ 8 hours.

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

TWA: 1000 ppm 8 hours. TWA: 2350 mg/m³ 8 hours.

Hungary

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

(T-4)-

butane

Ireland

2,2',2"-nitrilotriethanol

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

(T-4)-

propane

butane

propane-1,2-diol

Italy

No exposure limit value known.

Latvia

sebacic acid

propane

butane

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)-

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propane

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.

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

12/2011).

TWA: 2350 mg/m³ 8 hours. PEAK: 9400 mg/m³ 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). Oxygen Depletion [Asphyxiant].

OELV-8hr: 1000 ppm 8 hours. NAOSH (Ireland, 12/2011). OELV-8hr: 1000 ppm 8 hours. 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: 100 mg/m³, (as C) 8 hours. STEL: 300 mg/m³, (as C) 15 minutes. Ministru kabineta - AER (Latvia, 2/2011).

TWA: 300 mg/m³ 8 hours.

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

TWA: 5 mg/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: 500 ppm 8 hours. TWA: 900 mg/m3 8 hours.



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SECTION 8: Exposure controls/personal protection

butane

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

TWA: 250 ppm 8 hours. TWA: 600 mg/m3 8 hours.

propane-1,2-diol

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

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

Poland

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

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.

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

TWA: 1800 mg/m³ 8 hours.

Rozporzadzenie Ministra Pracy i Polityki Spolecznej (Dz.U.

2014 poz. 817) (Poland, 6/2014). TWA: 1900 mg/m³ 8 hours. STEL: 3000 mg/m3 15 minutes.

butane

propane

Portugal

2,2',2"-nitrilotriethanol

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

propane

butane

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 fraction

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

TWA: 1000 ppm 8 hours.

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

TWA: 1000 ppm 8 hours. Form: gas

TWA: 1000 ppm 8 hours.

Romania

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

propane

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

VLA: 2 ma/m³ 8 hours.

Short term: 65 mg/m³ 15 minutes.

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

VLA: 1400 mg/m³ 8 hours. VLA: 778 ppm 8 hours.

Short term: 1800 mg/m3 15 minutes. Short term: 1000 ppm 15 minutes.

Slovakia

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

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(T-4)-

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

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

Slovenia

2,2',2"-nitrilotriethanol

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

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

Pravilnik o varovanju delavcev pred tveganji zaradi

izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010).

TWA: 1800 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.

propane

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SECTION 8: Exposure controls/personal protection

butane

KTV: 7200 mg/m³, 4 times per shift, 15 minutes. KTV: 4000 ppm, 4 times per shift, 15 minutes.

Pravilnik o varovanju delavcev pred tveganji zaradi

izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010). TWA: 2400 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.

KTV: 9600 mg/m³, 4 times per shift, 15 minutes. KTV: 4000 ppm, 4 times per shift, 15 minutes.

Spain

2,2',2"-nitrilotriethanol

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

propane

butane

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)-

propane

butane

Turkey

propane

butane

United Kingdom (UK)

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

butane

propane-1,2-diol

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

INSHT (Spain, 1/2014).

TWA: 1000 ppm 8 hours. Form: gas

INSHT (Spain, 1/2014).

TWA: 1000 ppm 8 hours. Form: gas

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)

SUVA (Switzerland, 1/2014).

TWA: 1000 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. STEL: 4000 ppm 15 minutes. STEL: 7200 mg/m3 15 minutes. SUVA (Switzerland, 1/2014).

TWA: 800 ppm 8 hours. TWA: 1900 mg/m³ 8 hours. STEL: 7200 mg/m³ 15 minutes. STEL: 3200 ppm 15 minutes.

NIOSH REL (United States, 10/2013).

TWA: 1000 ppm 10 hours. TWA: 1800 mg/m3 10 hours.

NIOSH REL (United States, 10/2013).

TWA: 800 ppm 10 hours. TWA: 1900 mg/m3 10 hours.

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).

STEL: 1810 mg/m3 15 minutes. STEL: 750 ppm 15 minutes. TWA: 1450 mg/m3 8 hours. TWA: 600 ppm 8 hours.

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

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SECTION 8: Exposure controls/personal protection

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

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

: The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: None assigned.

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.

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

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SECTION 8: Exposure controls/personal protection

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.

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

: Liquid. **Physical state**

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

pН : 8.1 [Conc. (% w/w): 100%]

Melting point/freezing point Initial boiling point and

boiling range

: Not available. : Not available.

Flash point Upper/lower flammability or

explosive limits

: Not available. : Not available.

Relative density : 1.18

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 6 % (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 : Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials : No specific data.

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



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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.

Acute toxicity estimates

Route	ATE value
Ø ral	23790.8 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

: Not available. **Conclusion/Summary**

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.

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effects



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

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SECTION 11: Toxicological information

Potential delayed effects: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Not available.

: Not available. **Conclusion/Summary**

General : No known significant effects or critical hazards. : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity **Teratogenicity** : No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Fertility effects**

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

: Not available. **Conclusion/Summary**

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)

: Not available. **Mobility**

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 nonrecyclable 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.



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SECTION 13: Disposal considerations

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)

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

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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	1950	1950	1950
14.2 UN proper shipping name	Aerosols, flammable (butane, propane)	Aerosols, flammable (butane, propane)	Aerosols, flammable (butane, propane)
14.3 Transport hazard class(es)	2	2.1	2.1
14.4 Packing group	-	-	
14.5 Environmental hazards	No.	No.	No.
Additional information	Tunnel code D	Emergency schedules (EmS) F-D, S-U	Passenger and Cargo Aircraft Quantity limitation: 30 kg Cargo Aircraft Only Quantity limitation: 150 kg

user

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.

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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

Other EU regulations

: Not determined. **Europe inventory**

National regulations

Austria

Belgium

Bulgaria

Croatia

Czech Republic

Denmark

Estonia

Finland

France

Professional Disease(s) - Table number: 84

Germany

Hazard class for water

: nwg Appendix No. 4

Greece Hungary

Ireland

Italy

Latvia

Lithuania

Netherlands

Norway

Poland

Portugal

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

Romania

Slovakia

Slovenia

Product/ingredient name	List name	Name on list	Classification	Notes
butane	Mutagen, Reprotoxic	butan z vsebnostjo >= 0,1% butadiena [203-450-8]	Carc.1, Muta. MUTA2	-

Spain



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SECTION 15: Regulatory information

Sweden

Switzerland

Turkey

United Kingdom (UK)

Product/ingredient name	List name	Name on list	Classification	Notes
	UK Occupational Exposure Limits EH40 - WEL	butane	Carc.	_

15.2 Chemical safety

assessment

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

required.

SECTION 16: Other information

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Notice to reader

Indicates information that has changed from previously issued version.

Abbreviations and : ATE = Acute Toxicity Estimate

acronyms 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]

ClassificationJustification

Aerosol 1, H222, H229 Expert judgment

Europe

Full text of abbreviated H

statements

: H222, Extremely flammable aerosol. Pressurized container: may burst if heated.

H229

H302 Harmful if swallowed.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

Aerosol 1, H222, H229 AEROSOLS - Category 1

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

R12- Extremely flammable. 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]

: F+ - Extremely flammable

Xn - Harmful Xi - Irritant



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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 guarantee that these are the only hazards that exist.

Fernox SDS CLP Europe