

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation (EC) No. 1272/2008 (CLP)

# SAFETY DATA SHEET

## **Central Heating Cleaner F3**

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

1.1 Product identifier

: Central Heating Cleaner F3 **Product name** 

: 56600 **Product code** 

**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.

1.3 Details of the supplier of the safety data sheet

: Alpha, Alent plc **Forsyth Road Sheerwater Woking** Surrey **England** 

**GU21 5RZ** Tel: +44(0)1483 758400

Fax: +44(0)1483 728837

Contact person: europeanregulatory@alent.

com

+44 1483 758400 **Emergency phone:** Material uses: Water-boiler treatment. Manufacturer : Alpha, Alent plc Koenendelseweg 29

5222 BG

's-Hertogenbosch The Netherlands Tel: +31 73 6280 111 Fax: +31 73 6219 283

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Not classified.

Ingredients of unknown

toxicity

: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 41%

Ingredients of unknown

: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

ecotoxicity aquatic environment: 42.4%

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

**Europe** 

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

# **SECTION 2: Hazards identification**

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.Response: Not applicable.Storage: Not applicable.Disposal: Not applicable.

Hazardous ingredients :

Supplemental label : Not applicable.

elements

#### 2.3 Other hazards

Other hazards which do not result in classification

: None known.

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

Substance/mixture : Mixture

			<u>Classification</u>		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Europe					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
			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.	
Austria					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Belgium					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Bulgaria					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Croatia					

Date of issue/Date of revision : 15.07.2015.

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SECTION 3: Composition/information on ingredie	lients	inarea	on ir	mation	infor	sition	Compo	3:	TION	SEC
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				<del>_</del>	
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0	≥10 - <25	Not classified.	Not classified.	-
benzotriazole	CAS: 57-55-6 REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Czech Republic					
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1	≥1 - <3	Xn; R22 Xi; R36	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]
	CAS: 95-14-7		R52/53	Aquatic Chronic 3, H412	
Denmark					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	Xn; R22	Acute Tox. 4, H302	[1]
<b>P</b> otonta	EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	
Estonia					
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1	≥1 - <3	Xn; R22 Xi; R36	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]
Finland	CAS: 95-14-7		R52/53	Aquatic Chronic 3, H412	
benzotriazole	REACH #:	≥1 - <3	Xn; R22	Acute Tox. 4, H302	[1]
	01-2119979079-20 EC: 202-394-1 CAS: 95-14-7		Xi; R36 R52/53	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	
France			. 102.00	, 140000 011101110 0, 11112	
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Germany					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Greece					
benzotriazole	REACH #: 01-2119979079-20 EC: 202-394-1	≥1 - <3	Xn; R22 Xi; R36	Acute Tox. 4, H302  Eye Irrit. 2, H319	[1]
Hungary	CAS: 95-14-7		R52/53	Aquatic Chronic 3, H412	
benzotriazole	REACH #:	≥1 - <3	Xn; R22	Aguto Toy 4 H202	[1]
Denzotrazole	01-2119979079-20 EC: 202-394-1	21-<3	XII, R22 Xi; R36	Acute Tox. 4, H302  Eye Irrit. 2, H319	ויו
lustonal	CAS: 95-14-7		R52/53	Aquatic Chronic 3, H412	
Ireland	DEAGLE!	\	Not alore (Co. )	Net dessites	roı
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0	≥10 - <25	Not classified.	Not classified.	[2]
benzotriazole	CAS: 57-55-6 REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Italy					
	[	I	1	I	1

Benzotriazole   REACH #: 01-2119970979-20   EC: 202-394-1   CAS: 95-14-7   Activa   Foregraph   CAS: 95-14-7   CAS: 95-14-7   Activa   Foregraph   CAS: 95-14-7   Activa   Foregraph   F						[ [ ]
Latvia	benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	Xn; R22	Acute Tox. 4, H302	[1]
Propane-1,2-diol   REACH #   210		EC: 202-394-1				
01-2119458809-23   C25   EC: 200-338-0   CAS: 67-55-6   REACH #: 01-2119486491-33   EC: 231-598-3   CAS: 7647-14-5   EVE Initial Propane-1,2-diol   REACH #: 01-2119979079-20   EC: 202-394-1   CAS: 95-14-7   CAS: 95-14-7   EACH #: 01-2119979079-20   EC: 202-394-1   CAS: 95-14-7   CAS: 95-14-7   EACH #: 01-2119979079-20   EC: 202-394-1   CAS: 95-14-7   CAS: 95-14-	Latvia					
Sodium chloride	propane-1,2-diol	01-2119456809-23 EC: 200-338-0		Not classified.	Not classified.	[2]
benzotriazole   REACH #: 01-2119979079-20   EC: 202-394-1   CAS: 95-14-7   Elithuania   Propane-1,2-diol   REACH #: 01-2119456809-23   EC: 203-398-3   CAS: 57-55-6   REACH #: 01-2119979079-20   EC: 203-394-1   CAS: 95-14-7   Elithuania   E	sodium chloride	REACH #: 01-2119485491-33 EC: 231-598-3	≥3 - <5	Not classified.	Not classified.	[2]
Lithuania propane-1,2-diol REACH #: 01-2119456809-23 EC: 220-338-0 CAS: 57-55-6 REACH #: 01-2119485491-33 EC: 231-598-3 CAS: 7647-14-5 Benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Norway Propane-1,2-diol REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Norway Propane-1,2-diol REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Norway Propane-1,2-diol REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Norway Propane-1,2-diol REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Norway Propane-1,2-diol REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Poland  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Portugal  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Portugal  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Romania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  benzotriazole REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROm	benzotriazole	REACH #: 01-2119979079-20	≥1 - <3			[1] [2]
propane-1,2-diol         REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 75-75-6         ≥10 - 25         Not classified.						
01-2119456809-23   C25   EC: 200-338-0   CAS: 57-55-6   REACH #: 01-2119485491-33   EC: 231-598-3   CAS: 7647-14-5   D1-2119979079-20   EC: 202-394-1   CAS: 95-14-7   CA	Lithuania					
sodium chloride         REACH #: 01-2119485491-33 EC: 231-598-3 CAS: 7647-14-5         ≥3 - <5	propane-1,2-diol	01-2119456809-23 EC: 200-338-0		Not classified.	Not classified.	[2]
Netherlands   CAS: 95-14-7	sodium chloride	01-2119485491-33 EC: 231-598-3	≥3 - <5	Not classified.	Not classified.	[2]
Netherlands         CAS: 95-14-7         R52/53         Aquatic Chronic 3, H412           Netherlands         REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7         ≥1 - <3	benzotriazole	01-2119979079-20	≥1 - <3		·	[1]
benzotriazole         REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7         ≥1 - <3						
01-2119979079-20   EC: 202-394-1   CAS: 95-14-7   Xi; R36   R52/53   Eye Irrit. 2, H319   Aquatic Chronic 3, H412						
Norway         REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6         ≥10 - <25         Not classified.         Not classified.         [2]           benzotriazole         REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7         ≥1 - <3	benzotriazole	01-2119979079-20 EC: 202-394-1	≥1 - <3	Xi; R36	Eye Irrit. 2, H319	[1]
propane-1,2-diol         REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6 REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7         ≥1 - <3	Norway	0/10.00 14 /		1.02/00	Aquatio Officino 0, 11412	
benzotriazole       REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7       ≥1 - <3	_	01-2119456809-23 EC: 200-338-0		Not classified.	Not classified.	[2]
Poland benzotriazole  REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Portugal benzotriazole  REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7    21 - <3	benzotriazole	REACH #: 01-2119979079-20	≥1 - <3		,	[1]
Poland       REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7       ≥1 - <3       Xn; R22 Acute Tox. 4, H302 [1]         Portugal benzotriazole       REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7       ≥1 - <3       Xn; R22 Acute Tox. 4, H302 [1]         Romania benzotriazole       REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7       ≥1 - <3       Xn; R22 Acute Tox. 4, H302 [1]         Romania benzotriazole       REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7       ≥1 - <3       Xn; R22 Acute Tox. 4, H302 [1]         Xi; R36 R52/53       Acute Tox. 4, H302 [1]       Eye Irrit. 2, H319 Acute Tox. 4, H302 [1]						
benzotriazole       REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7       ≥1 - <3	Poland					
Portugal benzotriazole  REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  Romania benzotriazole  REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  ROmania  Denzotriazole  REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  RIFER REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  RIFER REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7  RES2/53  Aquatic Chronic 3, H412  Acute Tox. 4, H302  I¹]  Xi; R36 R52/53  Repel Irrit. 2, H319 Aquatic Chronic 3, H412		01-2119979079-20	≥1 - <3			[1]
Portugal         benzotriazole       REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7       ≥1 - <3						
benzotriazole       REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7       ≥1 - <3	Portugal	0.10.00117		02/00	, iqualio omorno o, mariz	
EC: 202-394-1 CAS: 95-14-7			≥1 - <3	Xn; R22	Acute Tox. 4, H302	[1]
benzotriazole  REACH #: 01-2119979079-20 EC: 202-394-1 CAS: 95-14-7    21 - <3   Xn; R22   Acute Tox. 4, H302   [1]   Xi; R36   Eye Irrit. 2, H319   Aquatic Chronic 3, H412		EC: 202-394-1				
01-2119979079-20 EC: 202-394-1 Xi; R36 Eye Irrit. 2, H319 CAS: 95-14-7 R52/53 Aquatic Chronic 3, H412	Romania					
CAS: 95-14-7 R52/53 Aquatic Chronic 3, H412	benzotriazole	01-2119979079-20	≥1 - <3			[1]
	Slovakia					

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

benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Slovenia					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Spain					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Sweden					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Switzerland					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
Turkey					
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	
United Kingdom (UK)					
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥10 - <25	Not classified.	Not classified.	[2]
benzotriazole	REACH #: 01-2119979079-20	≥1 - <3	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 3, H412	

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.

### <u>Type</u>

- [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.

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

Inhalation : Remove

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.

Ingestion : Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

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

### Over-exposure signs/symptoms

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

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

## 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides
halogenated compounds
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.

# SECTION 5: Firefighting measures

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

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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

# 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**: Not available.

# **SECTION 7: Handling and storage**

Industrial sector specific : 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	
No exposure limit value known.	
Belgium	
No exposure limit value known.	
Bulgaria	
No exposure limit value known.	
Croatia	
propane-1,2-diol	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.
Czech Republic	
No exposure limit value known.	
Denmark	
No exposure limit value known.	
Estonia	
No exposure limit value known.	
Finland	
No exposure limit value known.	
France	
No exposure limit value known.	
Germany	
No exposure limit value known.	
Greece	
No exposure limit value known.	
Hungary	
No exposure limit value known.	
Ireland	
propane-1,2-diol	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
Italy	
No exposure limit value known.	
Latvia	

# SECTION 8: Exposure controls/personal protection

propane-1,2-diol

sodium chloride

benzotriazole

Lithuania

propane-1,2-diol

sodium chloride

**Netherlands** 

No exposure limit value known.

**Norway** 

propane-1,2-diol

**Poland** 

No exposure limit value known.

**Portugal** 

No exposure limit value known.

Romania

No exposure limit value known.

**Slovakia** 

No exposure limit value known.

**Slovenia** 

No exposure limit value known.

Spain

No exposure limit value known.

Sweden

No exposure limit value known.

**Switzerland** 

No exposure limit value known.

**Turkey** 

No exposure limit value known.

**United Kingdom (UK)** 

propane-1,2-diol

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

TWA: 7 mg/m<sup>3</sup> 8 hours.

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

TWA: 5 mg/m<sup>3</sup> 8 hours.

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

TWA: 5 mg/m<sup>3</sup> 8 hours.

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

TWA: 7 mg/m<sup>3</sup> 8 hours.

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

TWA: 5 mg/m<sup>3</sup> 8 hours.

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

TWA: 79 mg/m<sup>3</sup> 8 hours. TWA: 25 ppm 8 hours.

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

TWA: 10 mg/m<sup>3</sup> 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

procedures

Recommended monitoring : 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.

# SECTION 8: Exposure controls/personal protection

#### **Derived effect levels**

No DELs available.

#### **Predicted effect concentrations**

No PECs available.

#### 8.2 Exposure controls

Appropriate engineering controls

: 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: 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.

**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**

**Physical state** : Liquid.

Colour Clear. Amber.

**Odour** : Faint

pН 7 [Conc. (% w/w): 100%]

Initial boiling point and

: 100°C

boiling range

Flash point [Product does not sustain combustion.]

: Not available.

Upper/lower flammability or

Melting point/freezing point

**explosive limits** 

: Not available.

Relative density : 1.18

### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation (EC) No. 1272/2008 (CLP)

Central Heating Cleaner F3

# SECTION 9: Physical and chemical properties

**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 13.6 % (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 : 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
-	LD50 Oral	Rat - Female	2001 mg/kg	-
benzotriazole	LD50 Oral	Rat	560 mg/kg	

**Conclusion/Summary**: Not available.

**Acute toxicity estimates** 

Not available.

#### **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** 

# **SECTION 11: Toxicological information**

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 the 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 and also 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.

Potential chronic health effects

Not available.

**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.

# **SECTION 12: Ecological information**

### **12.4 Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

# **SECTION 13: Disposal considerations**

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

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

- : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- **Hazardous waste**
- : 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. 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
14.1 UN number	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-
14.3 Transport hazard class(es)	-	-
14.4 Packing group	-	-

# **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.

National regulations

**Other EU 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** 

**Romania** 

**Slovakia** 

**Slovenia** 

**Spain** 

**Sweden** 

**Switzerland** 

**Turkey** 

**United Kingdom (UK)** 

15.2 Chemical Safety **Assessment** 

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

# **SECTION 16: Other information**

Date of printing 16.07.2015.

Date of issue/ Date of : 15.07.2015.

revision

acronyms

Date of previous issue : 28.04.2015.

Version : 2

**Notice to reader** 

Indicates information that has changed from previously issued version.

**Abbreviations and** 

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

1272/2008]

DNEL = Derived No Effect Level

: ATE = Acute Toxicity Estimate

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

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

**Classification**Justification

Not classified.

**Europe** 

Full text of abbreviated H : H302 Harmful if swallowed.

**statements** H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

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

Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3

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

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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.

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