SAFETY DATA SHEET

This safety data sheet complies with the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issue Date 18-May-2018 **Revision Date** 19-May-2015 **Version** 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code 3463_EU

Product Name **Tanalith E 3463**

Contains Copper carbonate, 2-aminoethanol, Ethoxylated amine

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

Recommended Use 528/2012 : Product-type 8: Wood preservatives

Uses advised against Consumer use

Reason why uses advised against Restricted to professional users

1.3. Details of the supplier of the safety data sheet

Manufacturer
Arch Timber Protection, Wheldon Road, Castleford, United Kingdom, WF10 2JT, Tel: +44 (0)1977 714000

A Lonza Company

For further information, please contact

E-mail address timberprotectionadvice.ukca@lonza.com

1.4. Emergency telephone number

Emergency Telephone NCEC : +44 (0)1235 239 670

Emergency Telephone - §45 - (EC)1272/2008	
Europe	**112**

Section 2: HAZARDS IDENTIFICATION

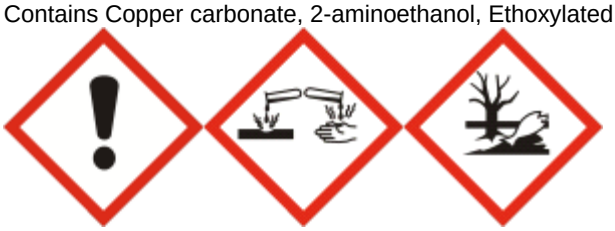
2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements

Contains Copper carbonate, 2-aminoethanol, Ethoxylated amine



Signal word
Danger

Hazard statements
H318 - Causes serious eye damage
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H410 - Very toxic to aquatic life with long lasting effects

Contains Propiconazole May produce an allergic reaction
EUH208 - Contains (Propiconazole). May produce an allergic reaction

Precautionary Statements - EU (§28, 1272/2008)
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P310 - Immediately call a POISON CENTER or doctor/physician
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

2.3. Other hazards
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
2-aminoethanol	205-483-3	141-43-5	15-40	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1B (H314) STOT SE 3 (H335)	No data available
(Copper (II) carbonate--copper(II) hydroxide (1:1))	235-113-6	12069-69-1	10-30	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Ethoxylated amine	Not Listed	-	1-5	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic acute 1 (H400) Aquatic chronic 1 (H410)	No data available
Organic acid	Listed	-	0.1-1	Skin Corr. 1B (H314)	No data available
Tebuconazole	403-640-2	107534-96-3	0.1-1	Acute Tox. 4 (H302) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Propiconazole	262-104-4	60207-90-1	0.1-1	Acute Tox. 4 (H302) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Dipropylene glycol methyl ether	252-104-2	34590-94-8	0.1-1	Not classified	No data available

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice Immediate medical attention is required.

Inhalation Call a physician or poison control center immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Eye contact Do not rub affected area. Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.

Ingestion Never give anything by mouth to an unconscious person. Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician or poison control center immediately.

Self-protection of the first aider Avoid contact with skin, eyes or clothing.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

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

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO2). Water spray or fog.

Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required. Ventilate affected area.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Prevent product from entering drains. Dam up. Take up mechanically, placing in appropriate containers for disposal. After cleaning, flush away traces with water.

6.4. Reference to other sections

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Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling
Use only with adequate ventilation and in closed systems. Avoid contact with skin, eyes or clothing.

General Hygiene Considerations
Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Take off all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep/store only in original container. Keep at temperatures between > 5 and < 25 °C.

Incompatible materials
Incompatible with strong acids and bases. Incompatible with oxidizing agents.

7.3. Specific end use(s)

Specific use(s)
Timber preservative for dilution in water and application in industrial vacuum pressure plant

Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
2-aminoethanol 141-43-5	TWA: 1 ppm TWA: 2.5 mg/m³ *	TWA: 1 ppm TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 7.6 mg/m³ Sk*	TWA: 1 ppm TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 7.6 mg/m³ *	TWA: 1 ppm TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 7.5 mg/m³ vía dérmica*	TWA: 2 ppm TWA: 5.1 mg/m³ H*
Dipropylene glycol methyl ether 34590-94-8	TWA 50 ppm TWA 308 mg/m³ *	TWA: 50 ppm TWA: 308 mg/m³ STEL: 150 ppm STEL: 924 mg/m³ Sk*	TWA: 50 ppm TWA: 308 mg/m³ *	TWA: 50 ppm TWA: 308 mg/m³ vía dérmica*	TWA: 50 ppm TWA: 310 mg/m³

Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
2-aminoethanol	TWA: 1 ppm	TWA: 1 ppm	TWA: 2.5 mg/m³	TWA: 1 ppm	TWA: 1 ppm

141-43-5	TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 7.6 mg/m³ pelle*	TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 7.6 mg/m³ P*	STEL: 7.6 mg/m³ H*	TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 7.6 mg/m³ iho*	TWA: 2.5 mg/m³ H*
(Copper (II) carbonate--copper(II) hydroxide (1:1)) 12069-69-1	-	-	-	TWA: 1 mg/m³	-
Dipropylene glycol methyl ether 34590-94-8	TWA: 50 ppm TWA: 308 mg/m³ pelle*	TWA: 50 ppm TWA: 308 mg/m³ STEL: 150 ppm P*	TWA: 300 mg/m³	TWA: 50 ppm TWA: 310 mg/m³ iho*	TWA: 50 ppm TWA: 309 mg/m³ H*
Chemical Name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
2-aminoethanol 141-43-5	TWA: 1 ppm TWA: 2.5 mg/m³ STEL 3 ppm STEL 7.6 mg/m³ H*	TWA: 2 ppm TWA: 5 mg/m³ STEL: 4 ppm STEL: 10 mg/m³	STEL: 7.5 mg/m³ TWA: 2.5 mg/m³	TWA: 1 ppm TWA: 2.5 mg/m³ STEL: 2 ppm STEL: 5 mg/m³ H*	TWA: 1 ppm TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 7.6 mg/m³ Sk*
(Copper (II) carbonate--copper(II) hydroxide (1:1)) 12069-69-1	TWA: 1 mg/m³ TWA: 0.1 mg/m³ STEL 4 mg/m³ STEL 0.4 mg/m³	-	-	-	-
Dipropylene glycol methyl ether 34590-94-8	TWA: 50 ppm TWA: 307 mg/m³ STEL 100 ppm STEL 614 mg/m³ H*	TWA: 50 ppm TWA: 300 mg/m³ STEL: 50 ppm STEL: 300 mg/m³	STEL: 480 mg/m³ TWA: 240 mg/m³	TWA: 50 ppm TWA: 300 mg/m³ STEL: 75 ppm STEL: 375 mg/m³ H*	TWA: 50 ppm TWA: 308 mg/m³ STEL: 150 ppm STEL: 924 mg/m³ Sk*
Chemical Name	**Belgium**	**Bulgaria**	**Croatia**	**Czech Republic**	**Estonia**
2-aminoethanol 141-43-5		STEL: 3 ppm STEL: 7.6 mg/m³ TWA: 1 ppm TWA: 2.5 mg/m³ K*	TWA: 1 ppm TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 7.6 mg/m³ K*	TWA: 2.5 mg/m³ Ceiling: 7.5 mg/m³ D*	TWA: 1 ppm TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 7.6 mg/m³ A*
Dipropylene glycol methyl ether 34590-94-8		TWA: 50 ppm TWA: 308.0 mg/m³ K*	TWA: 50 ppm TWA: 308 mg/m³ K*	TWA: 270 mg/m³ Ceiling: 550 mg/m³ D*	TWA: 50 ppm TWA: 308 mg/m³ A*
Chemical Name	**Greece**	**Hungary**	**Latvia**	**Lithuania**	**Romania**
2-aminoethanol 141-43-5		TWA: 2.5 mg/m³ STEL: 7.6 mg/m³ b*	TWA: 0.2 ppm TWA: 0.5 mg/m³ STEL: 3 ppm STEL: 7.6 mg/m³ *		TWA: 1 ppm TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 7.6 mg/m³ P*
(Copper (II) carbonate--copper(II) hydroxide (1:1)) 12069-69-1		STEL: 4 mg/m³	TWA: 0.5 mg/m³		
Dipropylene glycol methyl ether 34590-94-8		TWA: 308 mg/m³ STEL: 308 mg/m³	TWA: 50 ppm TWA: 308 mg/m³ *		TWA: 50 ppm TWA: 308 mg/m³ P*
Chemical Name	**Slovakia**	**Slovenia**	**Sweden**	**Russia**	**Turkey**
2-aminoethanol 141-43-5	TWA: 1 ppm TWA: 2.5 mg/m³ K*	TWA: 1 ppm TWA: 2.5 mg/m³ STEL: STEL ppm STEL: STEL mg/m³ K*		MAC: 0.5 mg/m³ Skin	
(Copper (II) carbonate--copper(II) hydroxide (1:1)) 12069-69-1		TWA: 1 mg/m³ STEL: STEL mg/m³			
Dipropylene glycol methyl ether 34590-94-8	TWA: 50 ppm TWA: 308 mg/m³ K*	TWA: 50 ppm TWA: 308 mg/m³ K*			

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand Protection Wear protective gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	-		
Appearance	Liquid	**Odor**	Slight
Color	blue		

Property	**Values**	**Remarks • Method**
pH	10.9	
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not determined	
Flash point	Not applicable Does not flash	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not determined	
Flammability Limit in Air		
Upper flammability limit:	Not determined	
Lower flammability limit:	Not determined	
Vapor pressure	Not determined	
Vapor density	Not Determined	
Relative density	1.19	
Water solubility	Soluble in water	
Solubility(ies)	Not determined	
Partition coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic viscosity		
Explosive properties	Not an explosive	
Oxidizing properties	Not applicable	

9.2. Other information

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact	No information available.
Sensitivity to Static Discharge	No information available.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions
None under normal processing.

10.4. Conditions to avoid

Keep from freezing.

10.5. Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Inhalation	May be harmful if inhaled.
Eye contact	Risk of serious damage to eyes.
Skin contact	No known effect based on information supplied.
Ingestion	Harmful if swallowed.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	3 181.00
ATEmix (dermal)	2 791.00
ATEmix (inhalation-dust/mist)	31.20

Actual Product Data

Dermal LD50	> 4000 mg/kg (rat)

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-aminoethanol	1515 mg/kg (RT)	2504 mg/kg (RBT)	-
(Copper (II) carbonate--copper(II) hydroxide (1:1))	= 1350 mg/kg (RT)	>2000 mg/kg (RT)	1.03 - 5.2 mg/L (RT) 4h
Ethoxylated amine	>300 mg/kg LD50 (RT)	-	-
Organic acid	> 2000 mg/kg (RT)	> 2000 mg/kg (RBT)	-
Tebuconazole	>1700 mg/kg (RT)	> 2000 mg/kg (RT)	> 5.0 mg/L (RT) 4h
Propiconazole	= 1517 mg/kg (RT)	> 4000 mg/kg (RT)	>5.8 mg/L (RT) 4h
Dipropylene glycol methyl ether	>5000 mg/kg (RT)	19020 mg/kg (RBT)	-

Note:
RT = Rat
RBT = Rabbit
MSE = Mouse
GP = Guinea Pig
V = Vapour

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Risk of serious damage to eyes.

Sensitization Not a skin sensitizer.

Germ cell mutagenicity No information available.

Carcinogenicity None known.

Reproductive toxicity No information available.

STOT - single exposure May cause disorder and damage to the. Respiratory system.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Note:
LC50: Lethal Concentration to 50% of a test population
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-aminoethanol	2.8 mg/L EC50 72 h (Pseudokirchneriella subcapitata)	349 mg/L LC50 96hr (Cyprinus carpio)	65 mg/L EC50 48 h (Daphnia magna)
(Copper (II) carbonate--copper(II) hydroxide (1:1))	0.043 mg/L EC50 96h (Desmodesmus suspicatus)	0.087 mg/L LC50 96h (Oncorhynchus mykiss)	0.042 mg/L EC50 48h (Daphnia magna)
Ethoxylated amine	>1 - 10 mg/L EC50 725h (Desmodesmus subspicatus)	0.1 - 1.0 mg/L LC50 96h (Danio rerio)	>1 - 10 mg/L EC50 48h (Daphnia magna)
Organic acid	5.9 mg/L EC50 72h (Pseudokirchnerella subcapitata)	22 mg/L LC50 96h (Lepomis macrochirus)	>20 mg/l EC50 48h (Daphnia magna)
Tebuconazole	3.8 mg/L EC50 72h (Pseudokirchneriella subcapitata)	4.4 mg/L LC50 48h (Oncorhyncus mykiss)	2.79 mg/L EC50 48h (Daphnia magna)
Propiconazole	0.76 mg/L EC50 (Desmodesmus subspicatus)	4.3 mg/L LC50 96h (Oncorhyncus mykiss)	10.2 mg/L EC50 48h (Daphnia magna)
Dipropylene glycol methyl ether	>969 mg/L EC50 72h (Pseudokirchneriella subcapitata)	>1000 mg/L LC50 96h (Poecilia reticulata)	1919 mg/L EC50 48h (Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical Name	Partition coefficient
2-aminoethanol	-1.91
Dipropylene glycol methyl ether	-0.064

12.4. Mobility in soil

Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

No information available

Endocrine Disruptor Information .

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN/ID no	UN3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Hazard Class	9
14.4 Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Copper, granulated), 9, III
14.5 Marine pollutant	This material meets the definition of a marine pollutant
Environmental hazard	Yes
14.6 Special Provisions	274, 335
EmS-No	F-A, S-F
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

RID

14.1 UN/ID no	UN3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Hazard Class	9
Labels	9
14.4 Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Copper, granulated), 9, III
14.5 Environmental hazard	Yes
14.6 Special Provisions	274, 335, 601, 375
Classification code	M6

ADR

14.1 UN/ID no	UN3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Hazard Class	9
Labels	9
14.4 Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Copper, granulated), 9, III
14.5 Environmental hazard	Yes
14.6 Special Provisions	274, 335, 601, 375
Classification code	M6
Tunnel restriction code	(-)

IATA

14.1 UN/ID no	UN3082
14.2 Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.

14.3 Hazard Class	9
14.4 Packing Group	III
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Copper, granulated), 9, III
14.5 Environmental hazard	Yes
14.6 Special Provisions	A97, A158, A197
ERG Code	9L

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Country specific regulation

France
Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number	Title
2-aminoethanol 141-43-5	RG 49,RG 49bis	-
Dipropylene glycol methyl ether 34590-94-8	RG 84	-

Water hazard class (WGK) Water endangering class = 2 (self classification)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:
This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

The Stockholm Convention on Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H302 - Harmful if swallowed
H361d - Suspected of damaging the unborn child
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H280 - Contains gas under pressure; may explode if heated
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation

H317 - May cause an allergic skin reaction
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

Legend
SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	None known	*	Skin designation

Issue Date	18-May-2018
Revision Date	19-May-2015
Revision Note	SDS sections updated, 2.2.
Further information	The information contained in this safety data sheet is deemed sufficient to allow the user to take all necessary operational control and risk mitigation measures to allow safe use of the product. In the event of any further questions regarding use conditions for this product please contact the address in section 1.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet