

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

### 1.1. Product identifier

**Product Code** 3755\_IRE  
*Product Name*  
**Tanagard 3755**

**Registration Number(s)** 93157  
**UFI:** 5H00-60WK-Q004-T122

Contains 2-Octyl-2H-isothiazole-3-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1), Copper nitrate, 2-methyl-4-isothiazolin-3-one

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

**Recommended Use** 528/2012 : Product-type 11: Preservatives for liquid-cooling and processing systems

**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

#### Authorization Holder:

Lonza Cologne GmbH, Nattermannallee 1, Cologne, 50829, Germany. Tel: + 49 221 99 1990

#### Manufacturer

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

For further information, please contact

**E-mail address** timberprotectionadvice.ukca@arxada.com

### 1.4. Emergency telephone number

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

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Ireland	Public Poisons Information Line: 01 809 2166

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1A - (H317)

Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

## 2.2. Label elements

Contains 2-Octyl-2H-isothiazole-3-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1), Copper nitrate, 2-methyl-4-isothiazolin-3-one



**Signal word**  
DANGER

### Hazard statements

H302 - Harmful if swallowed  
 H312 - Harmful in contact with skin  
 H314 - Causes severe skin burns and eye damage  
 H317 - May cause an allergic skin reaction  
 H410 - Very toxic to aquatic life with long lasting effects

### Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P310 - Immediately call a POISON CENTER or doctor/physician  
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P363 - Wash contaminated clothing before reuse  
 P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

### 3.2 Mixtures

#### Chemical nature

Mixture.

Chemical Name	EC No	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
2-Octyl-2H-isothiazole-3-one	247-761-7	26530-20-1	3-7	Acute Tox. 3 (H301) Acute Tox. 3 (H311)	No data available

				Skin Corr. 1 (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) M = 100 Aquatic Chronic 1 (H410) M (Chronic) = 100	
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	611-341-5	55965-84-9	1-5	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Skin Sens. 1A (H317) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) M = 100 Aquatic Chronic 1 (H410) M (Chronic) = 100	No data available
Copper nitrate	221-838-5	10031-43-3	0.1-1	Ox. Solid (H272) Skin Corr. 1 B (H314) Aquatic Acute 1 (H400) M = 1 Aquatic Chronic 2 (H411) M (Chronic) = 1	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

<b>General advice</b>	Immediate medical attention is required.
<b>Inhalation</b>	Remove to fresh air. Call a doctor or poison control centre immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
<b>Skin contact</b>	Wash off immediately with plenty of water. Wash contaminated clothing before reuse. Remove and isolate contaminated clothing and shoes. Seek immediate medical attention/advice.
<b>Eye contact</b>	Keep eye wide open while rinsing. Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub affected area.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediate medical attention is required.

### 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 doctors** 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 (CO<sub>2</sub>). 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**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water Do not allow run-off from fire-fighting to enter drains or water courses

**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**

Ensure adequate ventilation, especially in confined areas.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so.

**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.

**6.4. Reference to other sections**

See Sections 8, 11, 12 , 13 for more information.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Advice on safe handling**

Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations**

Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Wear suitable gloves and eye/face protection. Take off all contaminated clothing and wash it before re-use. 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 container tightly closed in a dry and well-ventilated place. Keep/store only in original container.

**Incompatible materials**

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

**7.3. Specific end use(s)****Specific use(s)**

Water-based additive for TANALITH E wood preservative solutions

**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-Octyl-2H-isothiazole-3-one 26530-20-1	-	-	-	-	TWA: 0.05 mg/m <sup>3</sup> H*
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Copper nitrate 10031-43-3	-	-	-	TWA: 1 mg/m <sup>3</sup>	-
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
2-Octyl-2H-isothiazole-3-one 26530-20-1	TWA: 0.05 mg/m <sup>3</sup> STEL 0.05 mg/m <sup>3</sup> Ceiling 0.05 mg/m <sup>3</sup> H*	TWA: 0.05 mg/m <sup>3</sup> STEL: 0.1 mg/m <sup>3</sup> H*	-	-	-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1) 55965-84-9	TWA: 0.05 mg/m <sup>3</sup> H*	-	-	-	-
Copper nitrate 10031-43-3	TWA: 1 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> STEL 4 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	-	-
Chemical Name	Belgium	Bulgaria	Croatia	Czech Republic	Estonia
Copper nitrate 10031-43-3		TWA: 1.0 mg/m <sup>3</sup>			TWA: 1 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>
Chemical Name	Greece	Hungary	Latvia	Lithuania	Romania
Copper nitrate 10031-43-3		STEL: 4 mg/m <sup>3</sup>			
Chemical Name	Slovakia	Slovenia	Sweden	Russia	Turkey
2-Octyl-2H-isothiazole-3-one 26530-20-1		TWA: 0.05 mg/m <sup>3</sup> STEL: STEL mg/m <sup>3</sup> K*			
Copper nitrate 10031-43-3		TWA: 1 mg/m <sup>3</sup> STEL: STEL mg/m <sup>3</sup>			

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Hand Protection</b>	Wear protective gloves. Wear protective nitrile rubber 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. Break through time. > 480 (min) Glove thickness. > 1,12 (mm). The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves must be inspected prior to use. Replace when worn.
<b>Skin and body protection</b>	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Respiratory protection</b>	In case of inadequate ventilation wear respiratory protection.
<b>Environmental exposure controls</b>	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	-	<b>Odour</b>	No information available
<b>Appearance</b>	Liquid		
<b>Colour</b>	light green		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	5	
<b>Melting point / freezing point</b>	Not determined	
<b>Boiling point / boiling range</b>	Not determined	
<b>Flash point</b>	Not applicable	
<b>Evaporation rate</b>	Not determined	
<b>Flammability (solid, gas)</b>	Not determined	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	Not determined	
<b>Lower flammability limit</b>	Not determined	
<b>Vapour pressure</b>	Not determined	
<b>Vapour density</b>	Not Determined	
<b>Relative density</b>	Not determined	
<b>Water solubility</b>	completely soluble	
<b>Solubility(ies)</b>	Not determined	
<b>Partition coefficient</b>	Not determined	
<b>Autoignition temperature</b>	Not determined	
<b>Decomposition temperature</b>	Not determined	
<b>Kinematic viscosity</b>	Not determined	
<b>Dynamic viscosity</b>		
<b>Explosive properties</b>	Not an explosive	
<b>Oxidising properties</b>	Not applicable	

### 9.2. Other information

<b>Density</b>	1.06 g/cm <sup>3</sup>
----------------	------------------------

## 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 oxidising 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

<b>Inhalation</b>	Harmful by inhalation. Avoid breathing vapours or mists.
<b>Eye contact</b>	Causes serious eye damage.
<b>Skin contact</b>	May cause sensitisation by skin contact. May cause burns.
<b>Ingestion</b>	Ingestion causes burns of the upper digestive and respiratory tracts.

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

<b>ATEmix (oral)</b>	930.40
<b>ATEmix (dermal)</b>	1 138.50
<b>ATEmix (inhalation-dust/mist)</b>	2.09

#### Actual Product Data

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Octyl-2H-isothiazole-3-one	125 mg/kg (ATE)	311 mg/kg (ATE)	0.27 mg/L (ATE)
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	64 mg/kg (RT)	92.4 mg/kg (RBT)	0.171 mg/L (RT) 4h

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

<b>Skin corrosion/irritation</b>	Causes burns.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes.
<b>Sensitisation</b>	May cause sensitisation by skin contact.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	None known.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Octyl-2H-isothiazole-3-one	0.084 mg/L EC50 72h (Scenedesmus sp.)	0.047 mg/L LC50 96h (Oncorhynchus mykiss)	0.320 mg/L EC50 48h (Daphnia magna)
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	0.0273 mg/L EC50 72h (Pseudokirchneriella subcapita)	0.19 mg/L LC50 96h (Oncorhynchus mykiss)	0.16 mg/L EC50 48h (Daphnia magna)
Copper nitrate	-	0.29 LC50 96h (Cyprinus carpio)	-

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 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, bio-accumulating nor toxic (PBT).  
This preparation contains no substance considered to be very persistent nor very bio-accumulating (vPvB).

### 12.6. Other adverse effects

No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other Information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

### IMDG

<b>14.1 UN/ID no</b>	UN1760
<b>14.2 Proper shipping name</b>	Corrosive liquid, n.o.s.
<b>14.3 Hazard Class</b>	8
<b>14.4 Packing Group</b>	III
<b>Description</b>	UN1760, Corrosive liquid, n.o.s. (reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)), , 8, III
<b>14.5 Marine pollutant</b>	This material meets the definition of a marine pollutant
<b>Environmental hazard</b>	Yes
<b>14.6 Special Provisions</b>	274, 223
<b>EmS-No</b>	F-A, S-B
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available

### RID

<b>14.1 UN/ID no</b>	UN1760
<b>14.2 Proper shipping name</b>	Corrosive liquid, n.o.s.
<b>14.3 Hazard Class</b>	8
<b>14.4 Packing Group</b>	III
<b>Description</b>	UN1760, Corrosive liquid, n.o.s. (reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)), , 8, III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Provisions</b>	274
<b>Classification code</b>	C9

### ADR

<b>14.1 UN/ID no</b>	UN1760
<b>14.2 Proper shipping name</b>	Corrosive liquid, n.o.s.
<b>14.3 Hazard Class</b>	8
<b>Labels</b>	8
<b>14.4 Packing Group</b>	III

<b>Description</b>	UN1760, Corrosive liquid, n.o.s. (reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)), , 8, III, (E)
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Provisions</b>	274
<b>Classification code</b>	C9
<b>Tunnel restriction code</b>	(E)

**IATA**

<b>14.1 UN/ID no</b>	UN1760
<b>14.2 Proper shipping name</b>	Corrosive liquid, n.o.s.
<b>14.3 Hazard Class</b>	8
<b>14.4 Packing Group</b>	III
<b>Description</b>	UN1760, Corrosive liquid, n.o.s. (reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)), 8, III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Provisions</b>	A3, A803
<b>ERG Code</b>	8L

## Section 15: REGULATORY INFORMATION

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

#### National regulations

**Water hazard class (WGK)** Water endangering class = 3 (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

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (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)

#### 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**

H272 - May intensify fire; oxidizer  
 H301 - Toxic if swallowed  
 H302 - Harmful if swallowed  
 H310 - Fatal in contact with skin  
 H311 - Toxic in contact with skin  
 H314 - Causes severe skin burns and eye damage  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H319 - Causes serious eye irritation  
 H330 - Fatal if inhaled  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects  
 H411 - Toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Issue Date** 24-Feb-2022

**Revision Date** 28-Apr-2020

**Revision Note** Not applicable.

**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