Safety data sheet

according to 1907/2006/EC, Article 31

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

· **1.1 Product identifier**

· **Trade name: ACTICIDE 14**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
· **Application of the substance/the mixture:** Biocidal product for industrial use.
· **Uses advised against:** Uses in which inhalable aerosols are formed.

· **1.3 Details of the supplier of the safety data sheet:**
· **Address and telephone number of the supplier:**
Thor Specialities (UK) LTD.
Wincham Avenue
Wincham Northwich
Cheshire CW9 6GB
United Kingdom
Phone: (UK) +44 (0) 1606 818800
Fax: (UK) +44 (0) 1606 818801
· **Competent person responsible for the Material Safety Data Sheet:**
Regulatory Department: sds@thor.uk.com

· **1.4 Emergency telephone number:**
National Poisons Information Service (24 h service):
Phone: +44 (0) 844-892-0111 (UK only)
Transport Emergency phone number (24 h service):
Phone: +49 621 60-43333 - Fax: +49 621 60-92664

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008 respectively UN GHS**

GHS05 corrosion

Skin Corr. 1B	H314	Causes severe skin burns and eye damage.
Eye Dam. 1	H318	Causes serious eye damage.

GHS09 environment

Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.

GHS07

Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 4	H312	Harmful in contact with skin.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Sens. 1	H317	May cause an allergic skin reaction.

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· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008 respectively UN GHS**
The product is labelled according to the CLP regulation.
· **Hazard pictograms**

GHS05 GHS07 GHS09

· **Signal word** Danger
· **Hazard-determining components of labelling:**
reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
· **Hazard statements**
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
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**
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P262 Do not get in eyes, on skin, or on clothing.
P303+P361+P353 IF ON SKIN (or hair): 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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

· **2.3 Other hazards** Other hazards have not been identified for this product.

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SECTION 3: Composition/information on ingredients

· **3.2 mixtures**

· **Dangerous components:**		
CAS: 55965-84-9 EC number: 611-341-5 Index number: 613-167-00-5	reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=10) Skin Sens. 1A, H317	14.1%

· **Additional information:**
The CAS No. of the single components are: CIT: 26172-55-4; MIT: 2682-20-4
For the wording of the listed risk/hazard phrases refer to section 16.

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SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Obtain special instructions from the poison information centre: Phone: +44 (0) 844-892-0111 (UK only) - see as well section 1.4.
Personal protection for the First Aider.
· **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
· **After skin contact**
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/attention.
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
· **After eye contact:**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Consult an eye specialist immediately.
· **After swallowing:**
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
Bring vomiting person into recovery position.
Do not give anything by mouth to an unconscious person.

· **4.2 Most important symptoms and effects, both acute and delayed**
Allergic skin reactions.
Skin reaction like itching, reddening, blistering may appear after hours.
Corrosive damage to gastro-intestinal tract.
· **Information for doctor:** Probable mucosal damage may contraindicate the use of gastric lavage.
· **Danger** Danger of gastric perforation.

· **4.3 Indication of any immediate medical attention and special treatment needed**
If swallowed, gastric irrigation with activated carbon.
Treat skin and mucous membrane with antihistamine and corticoid preparations.
Rinse eyes thoroughly with physiological saline.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:** Water spray jet, extinguishing powder, CO_2, foam.
· **Unsuitable extinguishing agents for reasons of safety:** None

· **5.2 Special hazards arising from the substance or mixture**
In case of fire, toxic incineration products may be released such as:
Nitrogen oxides (NOx)
Carbon dioxide (CO_2)
Carbon monoxide (CO)
Hydrogen chloride (HCl)

· **5.3 Advice for firefighters**
· **Protective equipment:** Wear self-contained breathing apparatus.

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· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing (see item 8).
Keep unprotected persons away.
When selecting the protective suit attention has to be paid to the complete and safe protection of skin and mucous membranes. Impermeable protective clothes, protective boots made of neoprene, complete face protection and nitrile-rubber-gloves with long tops should be worn.

· **6.2 Environmental precautions:**
As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water.
Prevent from spreading (e. g. by enclosing with a ring of chemical absorbent).
Inform authorities in case of contamination of water or sewage system.

· **6.3 Methods and material for containment and cleaning up:**
Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically.
Polluted surfaces can be decontaminated with a solution containing 5% sodium bisulphite and 5% sodium bicarbonate.
Provide adequate ventilation.
Dispose of contaminated material as waste according to item 13.
In case of a spill drained to the sewer collect contaminated water in suitable container and add 10% sodium bisulfite solution. Contact supplier for further instructions.
Suitable binder: binder for acids (labelling: A)

· **6.4 Reference to other sections** None

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Load carefully, avoid splashes.
Ensure good exhaust ventilation at the workplace.
It is preferable to handle the product in a closed system.
Avoid air contamination at the workplace by aerosol formation due to product heating, spraying etc.
Risks to the safety and health of workers may not only be created by work involving chemicals but, inter alia by work equipment and the fitting-out of work-places. Those risks shall be identified and evaluated.
· **Information about protection against explosion and fire:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and containers:**
Store only in the original container.
Information about suitable materials for vessels and piping can be requested from our sales department Tel.: +44(0)1606 818800.
· **Information about storage in a common storage facility:** Store away from foodstuffs.
· **Further information about storage conditions:**
The product, as supplied, naturally and very slowly involves carbon dioxide gas. Therefore, to relieve any excess pressure, the product is supplied in specially vented containers which are

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recommended for the continued storage of the product. In order to prevent spillages, always ensure that these containers are stored and transported in upright position.
Prevent release to the environment by adequate secondary containment design and use of appropriate spill control procedures.
· **Recommended storage temperature:** 10-30 °C
· **Sensitivity against UV-radiation and heat:** Protect from heat and direct sunlight.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**
· **Components with critical values that require monitoring at the workplace:** None established.
· **Additional information:** Information valid at the time of review of safety data sheet.

· **8.2 Exposure controls**
· **Technical protective equipment:**
In case of contamination devices to rinse eyes or skin immediately under running water must be available.
· **Personal protective equipment**
· **General protective and hygienic measures:**
Use skin cream for skin protection.
Avoid contact with the eyes and the skin.
Wash hands during work breaks and at the end of the shift.
Avoid contact with the skin.
Provide skin protection plan.
· **Respiratory protection:**
Use respiratory equipment if a significant exposure at the workplace is expected.
Filter A/P2.
· **Protection of hands:**

Chemical protective gloves according to DIN EN 374 with CE-labelling.

Check the condition of protective gloves after each use for any damages like holes, cuts or tears.
Do not wear protective gloves longer than necessary.
After use of gloves apply skin-cleaning agents and skin cosmetics.
· **Material of gloves** Nitrile rubber, NBR
· **Penetration time of glove material:**
Thickness: 0.4 mm; break-through time: 480 min; material: Nitrile; permeation: level 6
· **Gloves made of the following materials are not suitable:**
Gloves for mechanical protection do not provide protection against chemicals.
· **Eye protection:**

Face shield (visor)

Use visor in combination with goggle.

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· **Body protection:**

Protective clothing.

Apron

Full head, face and neck protection

· **Risk management measures**
The operators shall be instructed adequately.
The workplace shall be inspected regularly by competent personnel e.g. the safety representative.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

Form:	Liquid
Colour:	Colourless to yellowish
· **Odour:**	Mild
· **Odour threshold:**	Not relevant for safety
· **pH-value at 20 °C:**	2.5-3.0
· **Change in condition**	
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	ca. 100 °C (H_2O)
· **Flash point:**	Not applicable.
· **Self-inflammability:**	Product is not self-igniting.
· **Explosive properties:**	No explosive properties (S 4163).
· **Critical values for explosion:**	
Oxidising properties	No oxidising properties (S 4168). The substance/mixture has no oxidising potential due to its chemical structure.
· **Vapour pressure at 20 °C:**	20.8 hPa (OECD 104)
· **Density at 20 °C:**	1.23-1.26 g/cm3
· **Solubility in / Miscibility with**	
Water:	Fully miscible
· **9.2 Other information**	No self-reactive properties (S 4173).

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SECTION 10: Stability and reactivity

· **10.1 Reactivity**
The classification criteria for the property "Corrosive to metals" according to Annex I section 2.16 CLP Regulation resp. the UN Regulations for the transport of dangerous goods, class 8, are not fulfilled. (S 4363)

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For information about suitable materials for vessels and piping see section 7.2 (Requirements to be met by storerooms and containers)

· **10.2 Chemical stability**
· **Conditions to be avoided:**
Before handling, the product should not be diluted or mixed with other chemicals, in order to avoid any negative influences on the ingredient(s).
· **Minimum shelf life:** 18 months from production date.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:**
Alkalis (lyes)
Reducing agents
Strong oxidising agents
Nucleophils

· **10.6 Hazardous decomposition products:**
None, if storage and handling is done according to specification.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity**
Harmful if swallowed, in contact with skin or if inhaled.

· **LD/LC50 values that are relevant for classification:**		
Oral	LD_{50}	472 mg/kg (rat) (OECD 401) S 33
Dermal	LD_{50}	> 1000 mg/kg (rat) (OECD 402) S 31
Inhalation	LC_{50} / 4 h	1.23 mg/l (rat) (OECD 403) S 38

· **Skin corrosion/irritation:**
Causes severe skin burns and eye damage.

· **Results of studies:**		
Dermal	OECD 404 (skin)	corrosive (rat) (OECD 404)

· **Serious eye damage/irritation:**
Causes serious eye damage.
· **Sensitisation:**
May cause an allergic skin reaction.

· **Results of studies:**		
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]		
Sensitisation	OECD 406 (MKA)	sensitising (Guinea pig) (OECD 406) S 171

· **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
· **Carcinogenicity:** Based on available data, the classification criteria are not met.
· **Reproductive toxicity:** Based on available data, the classification criteria are not met.
· **STOT-single exposure:** Based on available data, the classification criteria are not met.

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· **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
· **Aspiration hazard:** Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]	
EC_{50} / 72 h	0.048 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 1322
EC_{50} / 48 h	0.1 mg/l (Daphnia) (OECD 202) S 52
	0.0052 mg/l (Skeletonema costatum) (OECD 201) RAC opinion
EC_{50} / 96 h	0.22 mg/l (rainbow trout) (OECD 203) S 6
NOEC / 48 h	0.00064 mg/l (Skeletonema costatum) (OECD 201) RAC opinion
NOEC / 21 d	0.004 mg/l (Daphnia) (OECD 211) S 52
NOEC / 28 d	0.098 mg/l (rainbow trout) (OECD 210) S 117
NOEC / 72 h	0.0012 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 1322

· **Evaluation:**
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

· **Toxicity on activated sludge organisms:**	
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]	
EC20 / 3 h	0.97 mg/l (Activated Sludge)
EC50 / 3 h	7.92 mg/l (Activated Sludge) (OECD 209)

· **Evaluation:** Depending on concentration, toxic effects on activated sludge organisms are possible.

· **12.2 Persistence and degradability**
· **Degree of elimination:**

· **Biodegradability:**	
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]	
OECD 301 D Closed-Bottle-Test	> 60 % (Activated Sludge) oxygen depletion - readily biodegradable; S 200
OECD 308 Simulation Biodegradation Aqu Sed System	1.82 - 1.92 d (half-life) CIT (S 617)

· **Evaluation:** The component(s) is (are) rapidly degradable.

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· **Behaviour in sewage treatment plants:**	
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]	
OECD 302 B Zahn-Wellens Test	100 % (Activated Sludge) substance removal (HPLC), completely eliminated by biodegradation (S 2387)
OECD 303 A: Activated Sludge Units	> 80 % (Activated Sludge) active ingredient - rapid biodegradable (bridging from S 199)

· **Evaluation:** The substances are biodegradable/eliminable in activated sludge units.

· **12.3 Bioaccumulative potential** No relevant information available.
· **Behaviour in environmental systems:**

· **BCF / LogKow:**	
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]	
OECD 107 Log Kow (shake flask method)	-0.71; + 0.75 (n-Octanol/water) (OECD 107) S 5
Bioconcentration factor BCF	3.6 (calculated) EPIWIN, S 1177

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**
· **PBT:** This mixture does not contain substances that meet the PBT-criteria of REACH, annex XIII.
· **vPvB:** This mixture does not contain substances that meet the vPvB-criteria of REACH, annex XIII.

· **12.6 Other adverse effects** Any other adverse effects on the environment are not expected.
· **12.7 Additional information**
· **Chemical Oxygen Demand (COD-value):** 150 mg O_2/g product
· **Biological oxygen demand (BSB_5-value):** Technically not feasible.
· **Metals and their compounds according Directive 2006/11/EC:** None
· **European Water Framework Directive 2000/60/EC (WFD) dated 23.10.2000:**
The product does not contain any priority substances according WFD that require a water monitoring.
· **Absorbable organic halogen compounds (AOX - DIN EN ISO 9562):**
Can affect the AOX-value of the effluent water. The active ingredient is not persistent, it is degraded after release of the chlorine atoms.
Calculated AOX value: 2.6 %

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Must be specially treated under adherence to official regulations.
Appropriate disposal operations according to Directive 2008/98/EC on waste: D 10 Incineration on land

· **European waste catalogue**	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST

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16 03 00	off-specification batches and unused products
16 03 05*	organic wastes containing hazardous substances
HP 6	Acute Toxicity
HP 8	Corrosive
HP 13	Sensitising
HP 14	Ecotoxic

· **Contaminated packaging:**
· **Recommendation:** Packaging can be reused or recycled after cleaning.
· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR, IMDG, IATA** UN3265

· **14.2 UN proper shipping name**
· **ADR** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]), ENVIRONMENTALLY HAZARDOUS
· **IMDG** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]), MARINE POLLUTANT
· **IATA** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6])

· **14.3 Transport hazard class(es)**

· **ADR**

· **Class** 8 (C3) Corrosive substances.
· **Label** 8

· **IMDG**

· **Class** 8 Corrosive substances.

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· **Label** 8

· **IATA**

· **Class** 8 Corrosive substances.
· **Label** 8

· **14.4 Packing group**
· **ADR, IMDG, IATA** II

· **14.5 Environmental hazards:**
· **Marine pollutant:** Yes
Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Corrosive substances.
· **Kemler Number:** 80
· **EMS Number:** F-A,S-B
· **Segregation groups** Acids
· **Stowage Category** B
· **Stowage Code** SW2 Clear of living quarters.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**
· **Limited quantities (LQ)** 1L
· **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
· **Transport category** 2
· **Tunnel restriction code** E

· **IMDG**
· **Limited quantities (LQ)** 1L
· **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **IATA**
· **Remarks:** Packing Instructions / max. net weight: Passenger aircraft: 851 / 1 L; Cargo aircraft: 855 / 30 L
It is forbidden to airfreight the package if it is ventilated (IATA-DGR 5.0.2.13.2). For samples up to 1 litre ventilated packages are not required.

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· **UN "Model Regulation":** UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISO-THIAZOLIN-3-ONE [EC NO. 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6]), 8, II, ENVIRONMENTALLY HAZARDOUS

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SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** Not all of the ingredients are listed.
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
· **National regulations:**

· **Information about limitation of use:**
Take note of Directive 94/33/EC on the protection of young people at work.
Take note of Directive 92/85/EC on the safety and health of pregnant women at work.

· **Regulations which may apply in event of accident: Control of Major Accident Hazards (COMAH)**
Critical quantity values according to the regulations on accidents (Seveso Directive) should be adhered to.
· **PCS-no. (IRL):** 93744
· **Indication of VOC:**
· **VOC according to Directive 2010/75/EC:**
This product does not contain any relevant amounts of "Volatile Organic Compounds" (VOC).
· **VOC according to Decopaint Directive (2004/42/EC):**
The product does not contribute significantly to the total content of VOCs in paints and varnishes.
· **SVOC according to EU-Ecolabel for interior and exterior paints (2014/312/EU):**
Based on its dose level, the product does not contribute significantly to the total level of SVOC of paints and lacquers.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This data is based on our current knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.

· **Relevant phrases**
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H330 Fatal if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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· **Training hints**
Further information regarding the directions for use can be found in the Product Data Sheet.
· **Classification according to Regulation (EC) No 1272/2008**
The classification includes the relevant available information about the mixture or the substances contained therein.
The evaluation of the available information within the scope of classification refers to the forms and aggregate states in which the mixture has been placed on the market and will be used most likely.
· **Contact for technical information** Biocides: info@thor.uk.com
· **Abbreviations and acronyms:**
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
· **Key literature references and sources for data:**
Data source(s): Biocidal product dossier(s)
Own studies (reference to S-number).
· *** Data altered since the previous version.**