

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 14.03.2019

Version number 62

Revision: 13.03.2019

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name: ACTICIDE DDQ 40****Additional information:**

This Safety Data Sheet relates to the material mentioned above by product name. The corresponding Data Sheet is also available in compliance with RSPO rules. In this case the product name is followed by the suffix "RSPO MB" which can be found in related order documents, e.g. invoices and/or delivery notes. All these documents also include our RSPO certification number: BMT-RSPO-000833 (Thor Especialidades), BMT-RSPO-000974 (Thor Specialities (UK) Ltd.) and RSPO\_PO1000007909 (Thor GmbH).

**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.**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

**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 2      H411 Toxic to aquatic life with long lasting effects.



GHS07

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Acute Tox. 4 H302 Harmful if swallowed.

**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:**

didecyldimethylammonium chloride

**Hazard statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

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.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

**Supplemental information in terms of art. 25 CLP-Regulation:**

As, according to the CLP Regulation (Art. 25) and BPR (Art. 69), the indications on the label have to be clearly legible, it is technically mandatory to link them to the safety data sheet by a QR-code. According to Art. 35 of the REACH Regulation, the safety data sheet has to be provided to any employee.

**a) Identity of every active substance and its concentration in metric units:** See product label**b) Nanomaterials contained in the product:** Does not contain any nanomaterial.**c) Authorisation number:**

This biocidal product is subject to the transitional periods of Art. 89 BPR.

**d) Name and address of the authorisation holder:**

Thor GmbH, Landwehrstraße 1, 67346 Speyer, Germany

**e) Type of formulation:** SL, soluble concentrate**f) Intended or authorized applications:**

Product-type 2: Disinfectants and algacides not intended for direct application to humans or animals

Product-type 3: Veterinary hygiene

Product-type 4: Food and feed area

Product-type 6: Preservatives for products during storage

Product-type 8: Wood preservatives

Product-type 10: Construction material preservatives

Product-type 11: Preservatives for liquid-cooling and processing systems

Product-type 12: Slimicides

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- **g) Directions for use, frequency of application and dose rate:**  
 Use level: 0.025-75 g/kg  
 The precise dose level required by a specific formulation can be determined by the local Thor Microbiological Technical Centre.  
 Ideally the addition should occur within a closed system. If manual handling operations are necessary spraying or spilling shall be prevented. If fast rotating agitators might lead to spraying or even aerosol formation the agitator speed shall be reduced or the machine shall be switched off during the addition.  
 Use instruction: the biocide product can be added at any time during production.  
 Blowing out of product-carrying pipes with compressed air shall be omitted.  
 Further information: see product information
- **h) Particulars of likely direct or indirect adverse side effects and any directions for first aid:**  
 No undesired side effects known.
- **i) Leaflet, if applicable warnings for vulnerable groups:**  
 A leaflet will not be created because all required information for the industrial user is stated in the safety data sheet.
- **j) Directions for the safe disposal of the biocidal product and its packaging:** See section 13
- **k) Formulation batch number or designation and the expiry date relevant to normal conditions of storage:**  
 See product label
- **l) Further information where applicable:**  
 Cleaning of equipment: Thoroughly rinsing with water. Dispose of contaminated wastewater in accordance with statutory provisions.
- **m) Categories of users to which the biocidal product is restricted:** Industrial user
- **n) Where applicable, information on any specific danger to the environment particularly concerning protection of non-target organisms and avoidance of contamination of water:**  
 See section 12
- **2.3 Other hazards** Other hazards have not been identified for this product.

### SECTION 3: Composition/information on ingredients

#### · 3.2 mixtures

##### · Dangerous components:

CAS: 7173-51-5	didecyldimethylammonium chloride	40%
EINECS: 230-525-2	⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318	
Index number: 612-131-00-6	⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411	
Reg.nr.: 01-2119945987-15	⚠ Acute Tox. 4, H302	

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 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.

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- **After skin contact**  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
If skin irritation or rash occurs: Get medical advice/attention.
- **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**  
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.  
Rinse eyes thoroughly with physiological saline.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Water spray jet, extinguishing powder, CO<sub>2</sub>, 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 (NO<sub>x</sub>)  
Hydrogen chloride (HCl)  
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter drains.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear personal protective equipment (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).

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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.

Suitable binder: multi-purpose absorbent.

Dispose of contaminated material as waste according to item 13.

Decontamination procedure: Quats are incompatible with anionic compounds, e. g. with anionic surfactants. If product is released unintentionally into waste water, drain the contaminated waste water and collect it in an appropriate container. Adjust with sodium lauryl sulphate solution (concentration twice as high as the active ingredient in the wastewater) to a mixture ratio of 1:1. Request further instructions from the supplier. Polluted surfaces can be decontaminated with a 10% sodium lauryl sulphate solution.

**· 6.4 Reference to other sections** None**SECTION 7: Handling and storage****· 7.1 Precautions for safe handling**

Load carefully, avoid splashes.

Provide good room ventilation or local exhaust ventilation at the workplace.

Handle product in closed systems preferably.

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:**

Should be stored in the delivery-container preferably.

Keep containers tightly sealed.

**· Information about storage in a common storage facility:** none**· Further information about storage conditions:**

If the product crystallizes at low temperatures, it can be restored by slowly warming the product.

The effectiveness is not affected hereby.

Prevent release to the environment by adequate secondary containment design and use of appropriate spill control procedures.

**· Minimum storage temperature:** 10 °C**· Sensitivity against frost:** Protect from frost.**· 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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**· Additional information:** Information valid at the time of review of safety data sheet.

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- **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:**  
Avoid contact with the eyes and the skin.  
Wash hands during work breaks and at the end of the shift.  
Use skin cream for skin protection.  
Provide skin protection plan.
- **Respiratory protection:** Not required
- **Protection of hands:**



Chemical protective gloves (EN ISO 374-1:2016)

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 (EN 166:2001)

Use visor in combination with goggle.

- **Body protection:**



Protective clothing (EN ISO 13688:2013)



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.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

**Form:** Liquid  
**Colour:** Clear  
Colourless to pale yellow

**Odour:** Recognisable

**Odour threshold:** Not relevant to safety

**pH-value (100 g/l) at 20 °C:** 6.5 - 8.0

**Change in condition**

**Melting point/freezing point:** Not determined

**Initial boiling point and boiling range:** ca. 100 °C (H<sub>2</sub>O)

**Flash point:** Not applicable.

**Flammability (solid, gas):** Not applicable.

**Auto ignition temperature:** Not applicable

**Decomposition temperature:** Not determined.

**Self-inflammability:** Product is not self-igniting.

**Explosive properties:** Product is not explosive.

**Critical values for explosion:**

**Lower:** Not applicable

**Upper:** Not applicable

**Oxidising properties** None

**Vapour pressure at 20 °C:** 23 hPa (H<sub>2</sub>O)

**Density at 20 °C:** 0.944-0.964 g/cm<sup>3</sup>

**Relative density (D<sub>20</sub><sup>20</sup>) at 20 °C:** 0.957 (OECD 109 - S 4079)

**Vapour density:** Not relevant for safety

**Evaporation rate:** Not relevant for safety

**Solubility in / Miscibility with**

**Water:** Fully miscible

**Partition coefficient: n-octanol/water:** see section 12

**Viscosity:**

**dynamic at 20 °C:** 51.7 mPas (OECD 114 - S 4082)

**kinematic at 40 °C:** 24.2 mm<sup>2</sup>/s (OECD 114 - S 4082)

**Solids content:** 39 - 41 %

**9.2 Other information**

No further relevant information available.

**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 4408)

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

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- **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:** 24 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:** Anionic compounds
- **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.

· **Acute toxicity estimates (ATE) or LD<sub>50</sub>/LC<sub>50</sub> values:**

Oral	ATE	820 mg/kg (calculated)
Dermal	ATE	>2,000 mg/kg (calculated)

- **Skin corrosion/irritation:**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation:**  
Causes serious eye damage.
- **Sensitisation:** Non sensitising.

· **Results of studies:**

**7173-51-5 didecyldimethylammonium chloride**

Sensitisation	OECD 406 (Buehler-Test)	(Guinea pig) not sensitising - S 464
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- **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.
- **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.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**7173-51-5 didecyldimethylammonium chloride**

EC <sub>50</sub> / 72 h	0.06 mg/l (Selenastrum capricornutum) (OECD 201) S 3227
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EC <sub>50</sub> / 48 h	0.03 mg/l (Daphnia) (OECD 202) S 452
LC <sub>50</sub> / 96 h	0.49 mg/l (Brachydanio rerio) (OECD 203) S 451
NOEC / 21 d	0.021 mg/l (Daphnia) (OECD 211) S 566
NOEC / 72 h	0.013 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 3227

**· Evaluation:**

Very toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

**· Toxicity on activated sludge organisms:**

**7173-51-5 didecyldimethylammonium chloride**

EC <sub>50</sub> / 3 h	17.9 mg/l (OECD 209) S 3256
EC <sub>20</sub> / 3 h	8.9 mg/l (OECD 209) S 3256

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

**· 12.2 Persistence and degradability**

**· Degree of elimination:**

**· Rapid degradability of organic substances:**

**7173-51-5 didecyldimethylammonium chloride**

OECD 301 D Closed-Bottle-Test	>70 % S 598
OECD 307 Aerobic and Anaerobic Transformation Soil	11 d S 4903

**· Evaluation:**

The component(s) is (are) rapidly degradable.  
Criterion: if e.g. in 28-day ready biodegradation studies, at least the following levels of degradation are achieved: dissolved organic carbon: 70 % or rather oxygen depletion or carbon dioxide generation: 60 %. These levels of biodegradation must be achieved within 10 days of the start of degradation (see CLP-Regulation Annex I section 4.1.2.9 and CLP Guidance version 4.1 Annex II.2).

**· Behaviour in sewage treatment plants:**

**7173-51-5 didecyldimethylammonium chloride**

OECD 303 A: Activated Sludge Units	>99 % S 2118
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**· Evaluation:** The substances are biodegradable/eliminable in activated sludge units.

**· 12.3 Bioaccumulative potential**

**· BCF / LogKow:**

**7173-51-5 didecyldimethylammonium chloride**

OECD 305 Bioconcentration factor	81 (Fish) literature
OECD 117 Log Kow Partition Coefficient	(n-octanol/water) not determinable

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- **Evaluation:** Not worth-mentioning accumulating in organisms
- **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**
- **Metals and their compounds acc. to 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):**  
The product does not contain substances, which can influence the AOX of waste water.  
Care should be paid to properly washing out the chloride when performing the AOX method.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
Must be specially treated as hazardous waste 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
16 03 00	off-specification batches and unused products
16 03 05*	organic wastes containing hazardous substances

- **Contaminated packaging:**
- **Recommendation:**  
Packaging can be reused or recycled after cleaning.  
Do not allow cleaning liquid to enter into drains. Do not allow to enter into water.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1760
- **14.2 UN proper shipping name**
- **ADR** CORROSIVE LIQUID, N.O.S.  
(didecyldimethylammonium chloride), ENVIRONMENTALLY HAZARDOUS
- **IMDG** CORROSIVE LIQUID, N.O.S.  
(didecyldimethylammonium chloride), MARINE POLLUTANT
- **IATA** CORROSIVE LIQUID, N.O.S.  
(didecyldimethylammonium chloride)

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· **14.3 Transport hazard class(es)**

· **ADR**



- **Class** 8 (C9) Corrosive substances.
- **Label** 8

· **IMDG**



- **Class** 8 Corrosive substances.
- **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**

- **Kemler Number:** 80
- **EMS Number:** F-A,S-B
- **Segregation groups** To list the dangerous good under a certain segregation group is not necessary due to its intrinsic properties in compliance with IMDG section 7.2.5.3.

· **Stowage Category**

- **Stowage Code** B  
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

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· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	E
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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
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· <b>IATA</b>	
· <b>Remarks:</b>	Packing Instructions / max. net weight: Passenger aircraft: 851 / 1 L; Cargo aircraft: 855 / 30 L
· <b>UN "Model Regulation":</b>	UN 1760 CORROSIVE LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE), 8, II, ENVIRONMENTALLY HAZARDOUS

**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** None 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.
- **Indication of VOC:**
- **VOC according to Directive 2010/75/EC:**  
This product does not contain relevant amounts of "Volatile Organic Compounds" (VOC).
- **VOC according to Decopaint Directive (2004/42/EC):**  
The product does not contain volatile organic compounds (VOC).
- **SVOC and EU Ecolabel for indoor and outdoor paints and varnishes (Commission Decision 2014/312/EU):**  
This product does not contain any Semi Volatile Organic Compounds.
- **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**  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H400 Very toxic to aquatic life.  
H411 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:**

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

**· 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.**