

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

Printing date 07.04.2017

Version number 90

Revision: 05.04.2017

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

- **1.1 Product identifier**
- **Trade name: ACTICIDE 45**
- **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**



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H331 Toxic if inhaled.



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

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 GHS06 GHS09

- Signal word Danger
- Hazard-determining components of labelling:
2-Octyl-2H-isothiazol-3-one
- Hazard statements
H301+H331 Toxic if swallowed 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.
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/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.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 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: 26530-20-1 EINECS: 247-761-7 Index number: 613-112-00-5	2-Octyl-2H-isothiazol-3-one Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) Acute Tox. 4, H302; Skin Sens. 1A, H317	ca. 46.5%
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- Additional information: For the wording of the listed risk/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/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.
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 or in case of vomiting, danger of entering the lungs.
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, CO₂, 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_x)
Carbon monoxide (CO)
Sulphur dioxide (SO₂)
- **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 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.

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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.

Suitable binder: multi-purpose absorbent.

Dispose of contaminated material as waste according to item 13.

Polluted surfaces can be decontaminated with a solution containing 5% sodium bisulphite and 5% sodium bicarbonate.

Provide adequate ventilation.

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.

Provide floor trough without outlet.

Information about storage in a common storage facility:

Store away from oxidising agents.

Store away from foodstuffs.

Further information about storage conditions: Keep containers tightly sealed.

Recommended storage temperature: 15-30 °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:

57-55-6 1,2-propylene glycol (> 25%)

WEL (Great Britain) Long-term value: 474* 10** mg/m³, 150* ppm
*total vapour and particulates **particulates

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- **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.
Do not inhale gases/fumes/aerosols.
Wash hands during work breaks and at the end of the shift.
Provide skin protection plan.
- **Respiratory protection:**
Use respiratory equipment if the OEL is exceeded.
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:** Leather gloves
- **Eye protection:**



Face shield (visor)

Use visor in combination with goggle.

- **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.

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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:

Yellow

· Odour:

Sweetish

· Odour threshold:

Not relevant for safety

· pH-value (10 g/l) at 22.9 °C:

4.7 (OECD 122 - S 3609)

· Change in condition

Melting point/freezing point:

Not determined

Initial boiling point and boiling range:

> 188 °C

· Flash point:

> 104 °C

· Auto ignition temperature:

> 400 °C (CAS: 57-55-6)

· Decomposition temperature:

Not determined.

· Self-inflammability:

Product is not self-igniting.

· Explosive properties:

Product is not explosive. However, formation of explosive air/gas mixtures is possible.

· Critical values for explosion:

Lower:

2.4 Vol % (CAS: 57-55-6)

Upper:

12.6 Vol % (CAS: 57-55-6)

· Vapour pressure at 20 °C:

0.1 hPa (CAS: 57-55-6)

· Density at 20 °C:

1.02-1.04 g/cm³

· Relative density (D₂₀⁴) at 20 °C:

1.034 (OECD 109 - S 3610)

· Solubility in / Miscibility with

Water:

Partly miscible

· 9.2 Other information

No oxydising properties.

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 4397)

· 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:

Oxidizing agents

Amines

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- **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**

Toxic if swallowed or if inhaled.

- **LD/LC50 values that are relevant for classification:**

Oral	LD ₅₀	279 mg/kg (rat) (OECD 401) S 80
Dermal	LD ₅₀	> 2000 mg/kg (rat) (OECD 402) S 77
Inhalation	LC ₅₀ / 4 h, Aerosol	0.6 mg/l (rat) (OECD 403) S 78

- **Skin corrosion/irritation:**

Causes severe skin burns and eye damage.

- **Results of studies:**

26530-20-1 2-Octyl-2H-isothiazol-3-one

Irritation of skin	OECD 404 (acute dermal irritation/corrosion)	corrosive (rabbit) (OECD 404) S 82
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- **Serious eye damage/irritation:**

Causes serious eye damage.

- **Sensitisation:**

May cause an allergic skin reaction.

- **Results of studies:**

26530-20-1 2-Octyl-2H-isothiazol-3-one

Sensitisation	OECD 429 (local lymph node assay)	sensitising (mouse) (OECD 429) S 526
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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:**

26530-20-1 2-Octyl-2H-isothiazol-3-one

EC ₅₀ / 72 h	0.084 mg/l (Scenedesmus subspicatus) (OECD 201) S 63
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EC ₅₀ / 48 h	0.42 mg/l (Daphnia) (OECD 202) S 95
LC ₅₀ / 96 h	0.036 mg/l (rainbow trout) (OECD 203) S 93
NOEC / 21 d	0.002 mg/l (Daphnia) (OECD 211) S 96
NOEC / 28 d	0.022 mg/l (rainbow trout) (OECD 210) S 159
NOEC / 72 h	0.004 mg/l (Algae) (OECD 201) S 63

• **Evaluation:**

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

• **Toxicity on activated sludge organisms:**

26530-20-1 2-Octyl-2H-isothiazol-3-one

EC20 / 0.5 h	10.4 mg/l (Activated Sludge) (TTC-Test (8901 Macherey-Nagel))
EC20 / 3 h	7.3 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:**

26530-20-1 2-Octyl-2H-isothiazol-3-one

OECD 309 Simulation Biodegradation - Surface Water	0.6 - 1.4 d (half-life) (OECD 309) rapidly biodegradable; S 635
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• **Evaluation:** The component(s) is (are) rapidly degradable.

• **Behaviour in sewage treatment plants:**

26530-20-1 2-Octyl-2H-isothiazol-3-one

OECD 303 A: Activated Sludge Units	> 83 % (Activated Sludge) (OECD 303 A) S 313
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• **Evaluation:** The substances are biodegradable/eliminable in activated sludge units.

• **12.3 Bioaccumulative potential**

• **BCF / LogKow:**

26530-20-1 2-Octyl-2H-isothiazol-3-one

OECD 117 Log Kow (HPLC method)	2.92 (n-Octanol/water) (OECD 117) S 323
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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 according Directive 2006/11/EC:** None

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- **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.

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
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:** Remove all product from packaging and clean thoroughly before recycling.
- **Recommended cleaning agent:** The solvent used when processing the product.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN2922
- **14.2 UN proper shipping name**
- **ADR** CORROSIVE LIQUID, TOXIC, N.O.S. (2-Octyl-2H-isothiazol-3-one), ENVIRONMENTALLY HAZARDOUS
- **IMDG** CORROSIVE LIQUID, TOXIC, N.O.S. (2-Octyl-2H-isothiazol-3-one), MARINE POLLUTANT
- **IATA** CORROSIVE LIQUID, TOXIC, N.O.S. (2-Octyl-2H-isothiazol-3-one)
- **14.3 Transport hazard class(es)**
- **ADR**



- **Class** 8 (CT1) Corrosive substances.

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· Label 8+6.1

· IMDG



· Class 8 Corrosive substances.
· Label 8/6.1

· IATA



· Class 8 Corrosive substances.
· Label 8 (6.1)

· 14.4 Packing group

· ADR, IMDG, IATA II

· 14.5 Environmental hazards:

· Marine pollutant: Yes
Symbol (fish and tree)
Symbol (fish and tree)

· Special marking (ADR):

· 14.6 Special precautions for user Warning: Corrosive substances.

· Kemler Number: 86

· EMS Number: F-A,S-B

· 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

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Trade name: ACTICIDE 45**UN "Model Regulation":**

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UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (2-OCTYL-2H-ISOTHIAZOL-3-ONE), 8 (6.1), 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**
 - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 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.
 - **Indication of VOC:**
 - **VOC according to Directive 2010/75/EC:** VOC-value: 53.5 % (calculated)
 - **VOC according to Decopaint Directive (2004/42/EC):** Max. VOC-content: 551 g/L.
 - **SVOC according to EU-Ecolabel for interior and exterior paints (2014/312/EU):**
This product does not contain any Semi Volatile Organic Compounds in the definition of the 2014/312/EU.
- **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.
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.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
- **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.

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- **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. 4: Acute toxicity – Category 4
 - Acute Tox. 3: Acute toxicity – Category 3
 - 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.**

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