

Page 1/12

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2018 Reviewed on 10/29/2018 **1** Identification · Product identifier Trade name: ACTICIDE 45 · Application of the substance/the mixture: Biocidal product for industrial use. · Details of the supplier of the safety data sheet: · Supplier: Thor Specialties, Inc. 50 Waterview Drive Shelton, CT 06484 USA Phone: +1 203-516-6980 Fax: +1 203-954-0005 · Competent person responsible for the Material Safety Data Sheet : Regulatory Affairs Department: Lynn P. Tordo, E-Mail: Regulatory@thorsp.com · Emergency telephone number: Emergency phone number (worldwide 24 hrs service): +49 6 21 60-4 33 33 USA: In case of emergency call CHEMTREC 24 Hours at 800/424-9300 or international: +1-703-527-3887 2 Hazard(s) identification · Classification of the substance or mixture 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. GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. · Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS05 GHS06 GHS07 · Signal word Danger (Contd. on page 2) US



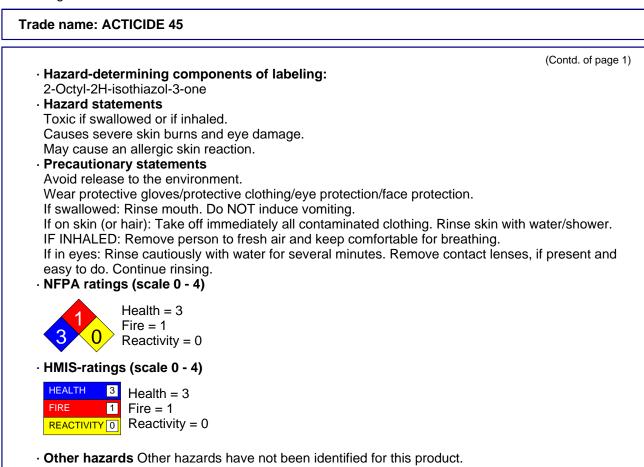
Page 2/12

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2018

Reviewed on 10/29/2018



# **3 Composition/information on ingredients**

### · Chemical characterization: Mixtures

· Dangerous components:

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

45 - 48%

## 4 First-aid measures

### · Description of first aid measures

· General information:

In case of emergency call toll free (800) 424-9300. Have the product container or label with you when you call a Poison Control Center or doctor or going for treatment.

· If inhaled:

If person is not breathing, call 911 or an ambulance, then give artificial respiraton, preferably mouth-to-mouth if possible.

Supply fresh air; consult doctor in case of symptoms.

If on skin or clothing:

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.

· If in eyes:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 3)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2018

#### Trade name: ACTICIDE 45

Consult an eye specialist immediately.

· If swallowed:

If swallowed: Rinse mouth. Do NOT induce vomiting.

If swallowed: Immediately call a poison center/doctor.

A person vomiting while lying on their back should be turned onto their side.

Do not give anything by mouth to an unconscious person.

- · Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.
- Most important symptoms and effects, both acute and delayed Symptoms and effects are described in section 2 and 11.
- Indication of any immediate medical attention and special treatment needed If swallowed or in case of vomiting, danger of entering the lungs.

# 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Water spray jet, extinguishing powder, CO<sub>2</sub>, foam.
- · For safety reasons unsuitable extinguishing agents: None
- Special hazards arising from the substance or mixture In case of fire, toxic incineration products may be released such as: Nitrogen oxides (NOx) Carbon monoxide (CO) Sulphur dioxide (SO<sub>2</sub>)
- · Advice for firefighters
- Protective equipment: Wear protective clothing and self-contained respiratory protective device.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Wear protective clothing.

Keep unprotected persons away.

When selecting the protective suit it has to be paid attention to a complete and safe protection of skin and mucous membrane. Impermeable protective clothes, protective boots made of neoprene, complete face protection, nitrile-rubber-gloves with long tops.

#### · 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 respective authorities in case of seepage into water course or sewage system.

#### · 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 binding material in accordance with local, state and federal regulations. Decontamination: Surfaces can be decontaminated with a solution containing 5% sodium bisulfite and 5% sodium bicarbonate.

(Contd. on page 4)

US



(Contd. of page 2)

Reviewed on 10/29/2018



Page 4/12

(Contd. of page 3)

Reviewed on 10/29/2018

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2018

### Trade name: ACTICIDE 45

Ensure adequate ventilation.

· Reference to other sections None

# 7 Handling and storage

- · Handling:
- Precautions for safe handling Load carefully, avoid splashes. Ensure good ventilation/exhaustion at the workplace. Handle product in closed systems preferably. Avoid pollution of the air at the workplace, caused e. g. by aerosol formation or by product heating. Clean contaminated work equipment immediately to avoid skin corrosion/-irritation and/or allergic skin reactions in case of unconscious skin contact. 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 explosions and fires: No special measures required. · Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Information about suitable materials for vessels and piping can be requested from our technical department (Tel.: 203-516-6980). · Information about storage in one common storage facility: Store away from oxidizing agents. Store away from foodstuffs. · Further information about storage conditions: Keep receptacle tightly sealed. Prevent release to the environment by adequate secondary containment design and use of appropriate spill control procedures. · Recommended storage temperature: 15-30° C, 59-86 F · Sensitivity against UV-radiation and heat: Protect from heat and direct sunlight. · Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, no constituents have any known exposure limits.

#### 57-55-6 Propylene glycol (52-55%)

WEEL 10 mg/m<sup>3</sup>

· Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Technical protective equipment:

In case of contamination devices to rinse eyes or skin immediately under running water must be available.

(Contd. on page 5)

US



Page 5/12

# Safety Data Sheet acc. to OSHA HCS

Printing date 10/29/2018

Reviewed on 10/29/2018

Trade name: ACTICIDE 45		
Provide skin protection plan • Breathing equipment: When there is potential for a approved respiratory protec	<b>gienic measures:</b> 'spray. and skin. ore breaks and at the end of work. airborne exposures in excess of applicabl	
Chemical protecti	ve gloves according to DIN EN 374 with	CE-labelling.
Do not wear protective glove Material of gloves Nitrile ru Penetration time of glove Thickness: 0.4 mm; break-th Not suitable are gloves ma	ibber, NBR	rmeation: level 6
Face shield (visor	)	
Use visor in combination with <b>Body protection:</b>	th goggle.	
Protective work c	lothing.	
Apron		
Full head, face and neck pro- • <b>Risk management measur</b> The operators shall be instru- The workplace shall be insp	res	e.g. the safety representative.
9 Physical and chemica	Il properties	
<ul> <li>Information on basic phys</li> <li>General Information</li> <li>Appearance:</li> </ul>	sical and chemical properties	
Form: Color:	liquid yellow	
		(Contd. on page 6



Page 6/12

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2018

Reviewed on 10/29/2018

Trade name: ACTICIDE 45	
· Odor: · Odor threshold:	(Contd. of page 5) Sweetish Not relevant for safety
· pH-value (10 g/l) at 22.9 °C (73.2 °F):	4.7 (OECD 122 - S 3609) The neat product is a non-aqueous system. Therefore a determination of the pH value is technically not possible.
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> <li>Flash point:</li> </ul>	Not determined > 188 °C (>370.4 °F) > 104 °C (>219.2 °F)
<ul> <li>Flammability (solid, gaseous):</li> </ul>	Method not applicable
<ul> <li>Ignition temperature:</li> </ul>	> 400 °C (>752 °F) (CAS: 57-55-6)
<ul> <li>Decomposition temperature:</li> <li>Auto igniting:</li> <li>Danger of explosion:</li> </ul>	Not determined. Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
<ul> <li>Explosion limits: Lower: Upper:</li> <li>Oxidizing properties</li> <li>Vapor pressure at 20 °C (68 °F):</li> <li>Density at 20 °C (68 °F):</li> <li>Relative density (D<sup>20</sup><sub>4</sub>) at 20 °C (68 °F)</li> <li>Vapor density</li> <li>Evaporation rate</li> <li>Solubility in / Miscibility with Water:</li> </ul>	Not determined Not determined Partly miscible.
<ul> <li>Partition coefficient (n-octanol/water)</li> <li>Viscosity: Dynamic:</li> </ul>	see section 12 Not determined
Other information     Organic Volatiles:	No further relevant information available. 53.5% (calculated)

# **10 Stability and reactivity**

· 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)

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

· Chemical stability

· Thermal decomposition/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.

(Contd. on page 7)

<sup>-</sup> US



# Safety Data Sheet acc. to OSHA HCS

Printing date 10/29/2018

### Reviewed on 10/29/2018

#### Trade name: ACTICIDE 45

(Contd. of page 6)

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Oxidizing agents Amines
- · Hazardous decomposition products: None expected during normal storage, handling and use.

# **11 Toxicological information**

### · Information on toxicological effects

# · Acute toxicity

	,		
<ul> <li>Acute toxicity estimates (ATE) or LD<sub>50</sub>/LC<sub>50</sub> values:</li> </ul>			
Oral	$LD_{50}$	279 mg/kg (rat) (OECD 401) S 80	
Dermal	LD <sub>50</sub>	>2,000 mg/kg (rat) (OECD 402) S 77	
Inhalative	$LC_{50}$ / 4 h, dusts and mist	s 0.6 mg/l (rat) (OECD 403) S 78	
<ul> <li>Sensitizat</li> </ul>	• Sensitization: Sensitization possible through skin contact.		
· Results of	· Results of studies:		
26530-20-	26530-20-1 2-Octyl-2H-isothiazol-3-one		
Sensitizati	on OECD 429 (LLNA) (n se	nouse) nsitising - S 526	
· Carcinogenic categories			
· OSHA-Ca (Occupational Safety & Health Administration)			

None of the ingredients is listed.

# **12 Ecological information**

#### · Toxicity

· Aquatic toxicity:		
EC₅₀ / 48 h	0.9 mg/l (Daphnia) (OECD 202) S 95 (b)	
LC₅₀ / 96 h	0.08 mg/l (rainbow trout) (OECD 203) S 93 (b)	
IC₅₀ / 72 h	0.18 mg/l (Desmodesmus subspicatus) (OECD 201) S 63 (b)	
26530-20-1 2-Octyl-2H-isothiazol-3-one		
EC₅₀ / 72 h	0.084 mg/l (Desmodesmus subspicatus) (OECD 201) S 63	
	(Contd. on page 8)	



Page 8/12

# Safety Data Sheet acc. to OSHA HCS

Printing date 10/29/2018

Reviewed on 10/29/2018

### Trade name: ACTICIDE 45

(Contd. of page EC₅₀ / 48 h 0.42 mg/l (Daphnia) (OECD 202) S 95 LC₅₀ / 96 h 0.036 mg/l (rainbow trout) (OECD 203) S 93 NOEC / 21 d 0.002 mg/l (Daphnia) (OECD 211)	e 7)		
S 95 LC₅₀ / 96 h 0.036 mg/l (rainbow trout) (OECD 203) S 93			
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			
EC <sub>20</sub> / 0.5 h 10.4 mg/l (Activated Sludge) (TTC-Test (8901 Macherey-Nagel)) literature	10.4 mg/l (Activated Sludge) (TTC-Test (8901 Macherey-Nagel))		
EC <sub>20</sub> / 3 h 7.3 mg/l (Activated Sludge) (OECD 209) literature	7.3 mg/l (Activated Sludge) (OECD 209)		
· Evaluation: Depending on concentration, toxic effects on activated sludge organisms are possib	e.		
	-		
<ul> <li>Persistence and degradability</li> <li>Degree of elimination:</li> </ul>			
· Rapid degradability of organic substances:			
26530-20-1 2-Octyl-2H-isothiazol-3-one			
OECD 309 Simulation Biodegradation - Surface 0.6-1.4 d (half-life) Water S 635			
OECD 309 Simulation Biodegradation - Sea Water Biodegradation - Surface Water) S 636			
• 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)	_		
S 313			
• Evaluation: The substances are biodegradable in activated sludge units.			
· Behavior in environmental systems:			
· Bioaccumulative potential			
· BCF / LogKow:			
26530-20-1 2-Octyl-2H-isothiazol-3-one			
OECD 117 LogKow (HPLC Method) 2.92 (n-octanol/water) S 323			
· Evaluation: Does not accumulate in organisms			
• <b>Mobility in soil</b> No further relevant information available.			
· Mobility in Soil No further relevant information available. (Contd. on page	9) - US		



Page 9/12

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2018

Reviewed on 10/29/2018

### Trade name: ACTICIDE 45

(Contd. of page 8)

#### · Results of PBT and vPvB assessment

- **PBT:** This mixture does not contain substances that meet the PBT-criteria of REACH, annex XIII.
- $\cdot$  vPvB: This mixture does not contain substances that meet the vPvB-criteria of REACH, annex XIII.
- 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
- 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):

The product does not contain substances, which can influence the AOX of waste water.

# **13 Disposal considerations**

#### · Waste treatment methods

· Recommendation:

Dispose in accordance with label and applicable Federal (RCRA), state and local regulations.

#### · Uncleaned packagings:

· Recommendation:

Do not allow cleaning liquid to enter into drains. Do not allow to enter into water. In accordance with label and federal and local regulations.

## **14 Transport information**

- · UN-Number
- · DOT, IMDG, IATA
- $\cdot$  UN proper shipping name
- DOT
- · IMDG
- $\cdot$  IATA
- · Transport hazard class(es)
- · DOT



- · Class
- · Label
- Class

UN2922

Corrosive liquid, toxic, n.o.s. (2-Octyl-2H-isothiazol-3one) CORROSIVE LIQUID, TOXIC, N.O.S. (2-Octyl-2Hisothiazol-3-one), MARINE POLLUTANT CORROSIVE LIQUID, TOXIC, N.O.S. (2-Octyl-2Hisothiazol-3-one)

8 Corrosive substances 8, 6.1 8 (CT1) Corrosive substances

(Contd. on page 10)



Page 10/12

# Safety Data Sheet acc. to OSHA HCS

Printing date 10/29/2018

Reviewed on 10/29/2018

ade name: ACTICIDE 45	
· Label	(Contd. of page 9 8+6.1
·IMDG	
· Class · Label	8 Corrosive substances 8/6.1
· IATA	
· Class · Label	8 Corrosive substances 8 (6.1)
<ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>	II
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
<ul> <li>Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> <li>Segregation groups</li> </ul>	Warning: Corrosive substances 86 F-A,S-B To list the dangerous good under a certain segragation group is not necessary due to its intrinsic properties in compliance with IMDG section 7.2.5.3.
<ul> <li>Stowage Category</li> <li>Stowage Code</li> </ul>	B SW2 Clear of living quarters.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
<ul> <li>Transport/Additional information:</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml (Contd. on page 11



· IATA

Page 11/12

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2018

Reviewed on 10/29/2018

### Trade name: ACTICIDE 45

(Contd. of page 10)

· Remarks:	Packing Instructions / max. net weight: Passenger
	aircraft: 851 / 1 L; Cargo aircraft: 855 / 30 L
<ul> <li>UN "Model Regulation":</li> </ul>	UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (2-
-	OCTYL-2H-ISOTHIAZOL-3-ONE), 8 (6.1), II,
	ENVIRONMENTALLY HAZARDOUS

## **15 Regulatory information:**

- $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture
- · EPA: 67071-6
- · Canada Pest Control Act Registration Number: 27271

· SARA:

· Section 302 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings): Substance is not listed.

- · TSCA (Toxic Substances Control Act):
- All ingredients are listed; product is exempt under TSCA Section 3.
- California Proposition 65: None of the ingredients are listed.
- · Canadian Domestic Substances List (DSL): All ingredients are listed.
- · WHMIS: Class: E and D1
- · Carcinogenic categories:
- · ACGIH:

None of the ingredients is listed.

### · NIOSH (National Institute for Occupational Safety and Health):

- None of the ingredients is listed.
- · Labeling elements under federal pesticide law (FIFRA):

This chemical is a pesticide product registered by the US-EPA and is subject to certain labeling requirements under federal pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide labels.

The hazard information as required on the pesticide label for this chemical is as follows: DANGER

Corrosive. Causes permanent, irrevocable eye damage and skin burns. May cause allergic skin reaction. May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Prolonged or repeated overexposure can cause central nervous system effects and kidney and liver damage.

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

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.



Page 12/12

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/29/2018

Reviewed on 10/29/2018

#### Trade name: ACTICIDE 45

(Contd. of page 11)

119

Training hints
 US: Use only in accordance with EPA-approved label. Canada: Use only in accordance with
 PMRA-approved label.

Further information under the regulations of use can be taken from the Product Data Sheet and label.

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@ThorSp.com
- · Date of preparation / last revision 10/29/2018 / 91

 Abbreviations and acronyms: 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

- Key literature references and sources for data: Data source(s): Biocidal product dossier(s) Own studies (reference to S-number).
- ·\* Data compared to the previous version altered.