Safety Data Sheet
according to WHS Regulations

printing date 22.08.2024 version number 60.0 revision: 22.08.2024

Hazardous according to criteria of Safe Work Australia. Classified as hazardous according to criteria in the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

1 Identification

· **Product identifier**
· **Trade name: Microcare IT**
· **Proper shipping name:**
The Proper Shipping Name is indicated in section 14 of this safety data sheet.

· **Relevant identified uses of the substance or mixture and uses advised against:**
· **Application of the substance/the mixture:** Additive for the cosmetic industry.

· **Details of the supplier of the safety data sheet:**
· **Address and telephone number of the supplier:**
Thor Specialties Pty Ltd
67 Newton Road
Wetherill Park
P.O. Box 3124
New South Wales 2164
Australia
Phone: (AUS) +61 2 9725 1177
Fax : (AUS) +61 2 9725 5677
E-Mail: technical1@thorchem.com.au
ABN: 66 001 558 032
· **Competent person responsible for the Material Safety Data Sheet:**
Product safety: tassk@thorchem.com.au

· **Emergency telephone number:**
Emergency phone number (24 hour service): 1300 959 267 for Australia and 0508 THORSPEC (0508 84677732) for New Zealand. EMERGENCY ONLY

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2 Hazard(s) Identification

· **Classification of the substance or mixture**


corrosion

Met. Corr.1	H290 May be corrosive to metals.
Skin Corr. 1C	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.


environment

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

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Skin Sens. 1 H317 May cause an allergic skin reaction.

· **Label elements**
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS05 GHS07 GHS09

· **Signal word** Danger
· **Hazard-determining components of labelling:**
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
· **Hazard statements**
H290 May be corrosive to metals.
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**
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
Collect spillage.

· **Other hazards**
· **PBT-properties:** none
· **vPvB-properties:** none

3 Composition and Information on Ingredients

· **Chemical characterization: mixtures**

· **Dangerous components:**		
CAS: 55965-84-9 Index number: 613-167-00-5	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330 Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100) Skin Sens. 1A, H317	1.5%

· **Additional information:** Hazard statements see section 16.

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4 First Aid Measures

· **Note:** 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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.
· **Information for doctor:** Probable mucosal damage may contraindicate the use of gastric lavage.

· **Most important symptoms and effects, both acute and delayed**
Allergic skin reactions.
Skin reaction like itching, reddening, blistering may appear after hours.
No further relevant information available.
Corrosive damage to gastro-intestinal tract.
Painful destruction of skin tissue which tends to heal slowly.
· **Danger** Danger of gastric perforation.

· **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.

5 Fire Fighting Measures

· **Suitable extinguishing agents:**
Product is non combustible. Use fire fighting measures that suit the environment.
· **Unsuitable extinguishing agents for reasons of safety:** None
· **Emergency Action Code / Hazchem-Code:** 2X

· **Special hazards arising from the substance or mixture**
In case of fire, toxic incineration products may be released such as:
Carbon monoxide (CO)
Sulphur dioxide (SO_2)
Hydrogen chloride (HCl)
· **Protective equipment:** Wear self-contained breathing apparatus.
· **Additional information**
Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. 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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· **Environmental precautions:**
As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water.
Inform authorities in case of contamination of water or sewage system.

· **Methods and material for containment and cleaning up:**
Dam and absorb spillage with chemical binder.
Suitable binder: multi-purpose absorbent.
Dispose of contaminated material as waste according to item 13.
Provide adequate ventilation.
Decontamination: Polluted surfaces can be decontaminated with a solution containing 5% sodium bisulphite and 5% sodium bicarbonate.

· **Reference to other sections** None

7 Handling and Storage

· **Precautions for safe handling**
Handle product in closed systems preferably.
Provide good room ventilation or local exhaust ventilation at the workplace.
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.
· **Information about protection against explosion and fire:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**
· **Requirements to be met by storerooms and containers:**
Should be stored in the delivery-container preferably.
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:** none
· **Further information about storage conditions:**
Prevent release to the environment by adequate secondary containment design and use of appropriate spill control procedures.
· **Recommended storage temperature:** 20° C
· **Sensitivity against UV-radiation and heat:** Protect from heat and direct sunlight.

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

8 Exposure controls and personal protection

· **Components with critical values that require monitoring at the workplace:**	
55965-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
AGW (Germany)	0.2 mg/m³ Empfehlung (Quelle: DFG-Liste 2002)

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

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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.
· **Hand protection:**

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

Wear protective gloves with long gauntlets preferably.
Check the condition of protective gloves after each use for any damages like holes, cuts or tears.
After use of gloves apply skin-cleaning agents and skin cosmetics.
Do not wear protective gloves longer than necessary.
· **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 14605:2009-08)

Entire 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.

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **Form:**	Liquid
· **Colour:**	Colourless to pale yellow clear
· **Odour:**	mild
· **pH-value at 20 °C:**	3.2 - 3.8 acidic
· **Melting point/freezing point:**	Not determined
· **Initial boiling point and boiling range:**	ca. 100 °C
· **Flash point:**	The mixture has no flashpoint.
· **Flammability (solid, gas):**	Product is not inflammable.
· **Decomposition temperature:**	Not determined
· **Auto-ignition temperature:**	Not applicable
· **Critical values for explosion:**	
· **Lower:**	Not applicable
· **Upper:**	Not applicable

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· **Vapour pressure at 20 °C:** 23 mbar (H_2O)
· **Density at 20 °C:** 1.017-1.037 g/cm3
· **Relative density (D^{20}_4):** 1.020 (S 3685)
· **Solubility in / Miscibility with**
· **Water:** Fully miscible
· **Partition coefficient: n-octanol/water:** see section 12
· **Viscosity:**
· **dynamic (η):** Not determined

· **Other information** No further relevant information available.

10 Stability and Reactivity

· **Reactivity**
The classification criteria for the property "corrosive to metals" according to Annex I section 2.16 of the CLP Regulation are fulfilled. (S 5774 (b))
For information about suitable materials for vessels and piping see section 7.2 (Requirements to be met by storerooms and containers).
· **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, if stored at a temperature of about 20°C.

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

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

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

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

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11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **Acute toxicity estimates (ATE) or LD_{50}/LC_{50} values:**		
oral	LD_{50}	4,400 mg/kg (rat) (OECD 401) S 33 (b)
dermal	LD_{50}	>5,000 mg/kg (rat) (OECD 402) S 31 (b)

· **Skin corrosion/irritation:** Causes severe skin burns and eye damage.
· **Serious eye damage/irritation:** Causes serious eye damage.
· **Sensitisation:** May cause an allergic skin reaction.

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· **Results of studies:**

55965-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
OECD 406	(Guinea pig) sensitising - S 171 (b)

· **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.
· **Information on other hazards** none

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12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**	
EC_{50} / 48 h	6.6 mg/l (Daphnia) (OECD 202) S 52 (b)
	0.35 mg/l (Skeletonema costatum) (DIN EN ISO 10253) RAC opinion (b)
IC_{50} / 72 h	3.1 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 1322 (b)

55965-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
LC_{50} / 96 h	0.22 mg/l (Onchorhyncus mykiss) (OECD 203) S 6 (b)
NOEC / 48 h	0.00064 mg/l (Skeletonema costatum) (DIN EN ISO 10253)
NOEC / 21 d	0.004 mg/l (Daphnia) (OECD 211) S 52 (b)
NOEC / 28 d	0.098 mg/l (Onchorhyncus mykiss) (OECD 210) S 117 (b)
NOEC / 72 h	0.0012 mg/l (Pseudokirchneriella subcapitata) (OECD 201) S 1322 (b)

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

· **Effect on activated sludge organisms:**	
55965-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
EC_{50} / 3 h	7.92 mg/l (OECD 209) S 418 (b)
EC_{20} / 3 h	0.97 mg/l (OECD 209) S 418 (b)

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

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· **Persistence and degradability**
· **Method:**

· **Rapid degradability of organic substances:**	
55965-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
OECD 301 D Closed-Bottle-Test	> 60 % S 200 (b)
OECD 308 Simulation Biodegradation Aqu Sed System	1.82 - 1.92 d S 617 (CIT)

· **Evaluation:**
Committee for Risk Assessment - RAC (Opinion of 10. March 2016): CIT/MIT not rapidly degradable. The classification is based on the opinion.

· **Behaviour in sewage treatment plants:**	
55965-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
OECD 302 B Zahn-Wellens Test	100 % S 2387 (b)
OECD 303 A: Activated Sludge Units	> 80 % S 199 (b)

· **Evaluation:** The component(s) is (are) biodegradable in activated sludge units.

· **Bioaccumulative potential**

· **Bioconcentration factor (BCF) / octanol/water partition coefficient (LogKow):**	
55965-84-9 reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
Bioconcentration factor BCF	3.16 (calculated) S 1177
OECD 117 Log Kow Partition Coefficient	≤0.71 (n-octanol/water) S 5

· **Evaluation:** Not worth-mentioning accumulating in organisms

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

· **Results of PBT and vPvB assessment**
· **Persistent, bioaccumulative and toxic substances (PBT):** none
· **Very persistent and very bioaccumulative substances (vPvB):** none

· **Other adverse effects** none
· **Metals and their compounds (Directive 2006/11/EC):** None
· **European Water Framework Directive (2000/60/EC):**
The product does not contain any priority substances according WFD that require a water monitoring.
· **Absorbable organic halogen compounds (AOX - DIN EN ISO 9562 H 14):**
Can affect the AOX-value of the effluent water. The active ingredient is not persistent, it is degraded by separation of the chlorine atom.
Calculated AOX value: 0.26 %

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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation** Hazardous waste. Separate waste disposal to be applied.

· **Contaminated packaging:**
· **Recommendation:**
Empty packaging must be reconditioned to be reused or recycled.
Uncleaned packaging must not be given to private consumers.
For further information concerning the return of packaging, please contact sds@thor.com

14 Transport information

· **UN-Number**
· **ADG, IMDG, IATA** UN3265

· **UN proper shipping name**
· **ADG, IATA** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
· **IMDG** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)), MARINE POLLUTANT

· **Transport hazard class(es)**

· **ADG**

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

· **IMDG**

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

· **IATA**

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

· **Packing group**
· **ADG, IMDG, IATA** III

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

· **Special precautions for user** Warning: Corrosive substances.
· **EmS Code:** F-A,S-B
· **Segregation groups** (SGG1) Acids
· **Stowage Category** A
· **Stowage Code** SW2 Clear of living quarters.

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

· **Transport/Additional information:**

· **ADG**
· **Limited quantities (LQ)** 5L
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
· **Transport category** 3
· **Tunnel restriction code** E
· **Remarks:** Hazchem Code: 2X

· **IMDG**
· **Limited quantities (LQ)** 5L
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **IATA**
· **Remarks:** Packing Instructions / max. net weight: Passenger aircraft: 852 / 5 L; Cargo aircraft: 856 / 60 L
· **UN "Model Regulation":** UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (REACTION MASS OF 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)), 8, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· **Australian Inventory of Chemical Substances (AICIS):**
All ingredients are listed.

· **National regulations:**

· **Information about limitation of use:**
· **Australian Poisons Schedule:** Not scheduled.
· **Australian Inventory of Chemical Substances (AICS):** All ingredients are listed.

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

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16 Other information

This data is based on our current knowledge. However, it does not constitute a guarantee for any specific product feature nor does it establish a legally valid contractual relationship.

· **Relevant hazard statements**
H301 Toxic if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

· **Methods of evaluating information used for the purpose of classification:**
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.

Corrosive to metals	On basis of test data
Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation Hazardous to the aquatic environment - short-term (acute) aquatic hazard Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	Calculation method

· **Abbreviations and acronyms:**
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN ISO: iso norm adopted as a European standard
DIN EN: European norm adopted as a German standard
OECD: Organisation for Economic Co-operation and Development
ECxx: Effect concentration, xx percent
NOEC: No Observed Effect Concentration
UN: United Nations
ADR: Accord relatif au transport international 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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
CLP: Classification, Labelling and Packaging.
IMO: International Maritime Organization
REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals
Met. Corr.1: Corrosive to metals – Category 1
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
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:** Own studies (reference to S-number).

· *** Data altered since the previous version.**