Safety Data Sheet

according to P.U. (A) 310/2013

printing date 25.11.2022 version number 38 revision: 25.11.2022

1 Identification of the hazardous chemical and of the supplier

· **Product identifier**
· **Trade name: Microcare PE**
· **CAS number:**
122-99-6
· **EC number:**
204-589-7
· **Index number:**
603-098-00-9

· **Recommended use of the chemical and restrictions on use**
· **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 Sdn Bhd
Jalan Bursa 23/4
40300 Shah Alam
Selangor Darul Ehsan
Malaysia
Phone: (MY) +60 3 5542 5788
Fax: (MY) +60 3 5542 5799
· **Competent person responsible for the Material Safety Data Sheet:**
Product safety: at@thor-my.com

· **Emergency telephone number:**
Phone: +60 3 5542 5788 (Malaysia)
Transport-Accident-Information and Emergency-Response-System (24 h service)
Phone: +49 621 6043333

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2 Hazard identification

· **Classification of the substance or mixture**

corrosion

Eye Dam. 1 H318 Causes serious eye damage.

Acute Tox. 4 H302 Harmful if swallowed.
STOT SE 3 H335 May cause respiratory irritation.

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

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· **Hazard pictograms**

GHS05 GHS07

· **Signal word** Danger
· **Hazard-determining components of labelling:**
2-Phenoxyethanol
· **Hazard statements**
Harmful if swallowed.
Causes serious eye damage.
May cause respiratory irritation.
· **Precautionary statements**
Use only outdoors or in a well-ventilated area.
Wear eye protection / face protection.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

· **Other hazards** none

3 Composition and information of the ingredients of the hazardous chemical

· **Chemical characterization: substances**
· **CAS No. Designation:**
122-99-6 2-Phenoxyethanol
· **Identification number(s):**
· **EC number:** 204-589-7
· **Index number:** 603-098-00-9

4 First-aid measures

· **Description of 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: Wash with plenty of soap and water.
· **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.
· **After swallowing:**
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Seek medical treatment.

· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.

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· **Indication of any immediate medical attention and special treatment needed**
If swallowed, gastric irrigation with activated carbon.

5 Fire-fighting measures

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

· **Special hazards arising from the substance or mixture**
In case of fire, toxic incineration products may be released such as:
Carbon monoxide (CO)

· **Advice for firefighters**
· **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.

· **Environmental precautions:**
Inform authorities in case of contamination of water or sewage system.
Do not allow product to enter waters without treatment in a (biological) water treatment plant.

· **Methods and material for containment and cleaning up:**
Dam and absorb spillage with chemical binder.
Suitable binder: multi-purpose absorbent.
Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically.
Dispose of contaminated material as waste according to item 13.

· **Reference to other sections** See Section 13 for information on disposal.

7 Handling and storage

· **Precautions for safe handling**
Provide good room ventilation or local exhaust ventilation at the workplace.
Load carefully, avoid splashes.
Assess hazards arising from work equipment and work places.
· **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 storage in a common storage facility:** Store away from oxidising agents.
· **Further information about storage conditions:** none
· **Minimum storage temperature:** 15 °C

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· **Sensitivity against frost:** Protect from frost.

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

8 Exposure controls and personal protection

· **Control parameters**

· **Components with critical values that require monitoring at the workplace:**	
122-99-6 2-Phenoxyethanol (50 - 100%)	
OEL (Great Britain)	Short-term value: 2.5 mg/m³, 2 ppm Long-term value: 2.5 mg/m³, 2 ppm Formaldehyde

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

· **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:**
When there is potential for airborne exposures:
Respirator with filter for use against organic gases and vapours, boiling point above 65 ºC and particles (EN 14387).

· **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:**

Safety glasses (EN 166)

· **Body protection:**

Protective clothing (EN 14605:2009-08)

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· **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 clear
· **Odour:**	Weak, characteristic
· **pH-value (10 g/l) at 20 °C:**	5.5-7.0 slightly acidic
· **Melting point/freezing point**	10.9 °C (440/2008, A.1 - S 5153)
· **Initial boiling point and boiling range**	243.2 °C (440/2008, A.1 - S 5153)
· **Flash point:**	123 °C (EC 440/2008, A.9 - S 5155)
· **Flammability (solid, gas)**	Not applicable.
· **Decomposition temperature:**	Not applicable
· **Auto-ignition temperature:**	475°C - S 5157 (EC 440/2008, A.15)
· **Critical values for explosion:**	
Lower:	1.4 Vol %
Upper:	9 Vol %
· **Oxidising properties**	none S 5177
· **Vapour pressure at 20 °C:**	0.03 hPa (EC 440/2008 A.4 - S 5154)
· **Density at 20 °C:**	1.105 - 1.110 g/cm³
· **Relative density (D^{20}_4):**	1.107 (OECD 109 - S 5158)
· **Solubility in / Miscibility with**	
Water at 20 °C:	24.17 g/l (EC 440/2008, A.6 - S 5165)
· **Partition coefficient: n-octanol/water**	see section 12
· **Viscosity:**	
dynamic (η) at 20 °C:	29.6 mPas (OECD 114 - S 5162)
kinematic (√) at 40 °C:	8.86 mm²/s (OECD 114 - S 5162)

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 5144)

· **Chemical stability**
· **Conditions to be avoided:**
· **Minimum shelf life:** 24 months from production date.

· **Possibility of hazardous reactions** Forms explosive gas mixture with air

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

· **Incompatible materials:** Oxidizing agents

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· **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** Harmful if swallowed.

· **Acute toxicity estimates (ATE) or LD_{50}/LC_{50} values:**		
122-99-6 2-Phenoxyethanol		
oral	ATE	1394 mg/kg (-) 17. ATP
dermal	LD_{50}	> 2000 mg/kg (rabbit) (OECD 402) Dossier (REACh)

· **Evaluation:**
· **Skin corrosion or irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage or eye irritation** Causes serious eye damage.
· **Respiratory / skin sensitization** Based on available data, the classification criteria are not met.

· **Results of studies:**	
122-99-6 2-Phenoxyethanol	
OECD 406 (Buehler-Test)	(Guinea pig) not sensitising - dossier (REACh)

· **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.
· **Specific target organ toxicity (STOT) – single exposure** May cause respiratory irritation.
· **Specific target organ toxicity (STOT) – repeated exposure**
Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

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12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
122-99-6 2-Phenoxyethanol	
EC_{50} / 72 h	> 100 mg/l (Desmodesmus subspicatus) (OECD 201) literature
EC_{50} / 48 h	> 100 mg/l (Daphnia) (OECD 202) literature
LC_{50} / 96 h	344 mg/l (fathead minnow) (OECD 203) Dossier (REACh)
	> 100 mg/l (Desmodesmus subspicatus) (OECD 201) literature
NOEC (dynamic)	23 mg/l (fathead minnow) literature
NOEC / 21 d (static)	9.43 mg/l (Daphnia) literature

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NOEC / 28 d	24 mg/l (Fish) literature
NOEC / 96 h	46 mg/l (Desmodesmus subspicatus) (OECD 201) literature

· **Evaluation:**
Based on the available data the classification criteria for hazard classes aquatic acute (short term) toxicity are not fulfilled.
Based on the available data the classification criteria for hazard classes aquatic, chronic (long term) toxicity are not fulfilled.

· **Effect on activated sludge organisms:**	
122-99-6 2-Phenoxyethanol	
EC_{10} / 17h	320 mg/l Dossier (REACh)
EC_{50} / 3 h	> 1,000 mg/l (OECD 209) literature

· **Evaluation:**
If contaminated effluent water is properly entered into the sewage system, any interference with the degrading activity of the activated sludge organisms is not expected.

· **Persistence and degradability**

· **Rapid degradability of organic substances:**	
122-99-6 2-Phenoxyethanol	
OECD 301 A DOC Die-Away-Test	> 90 % Dossier (REACh)

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

· **Behaviour in sewage treatment plants:**	
122-99-6 2-Phenoxyethanol	
OECD 302 B Zahn-Wellens Test	80 - 90 % Dossier (REACh)

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

· **Bioaccumulative potential**

· **Bioconcentration factor (BCF) / octanol/water partition coefficient (LogKow):**	
122-99-6 2-Phenoxyethanol	
OECD 305 Bioconcentration factor	0.35 (-) literature
OECD 107 LogKow (Shake Flask Method)	1.19 (n-octanol/water) S 5167

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

· **Mobility in soil** No further relevant information available.
· **Remark:**
If contaminated effluent water is properly entered into the sewage system, any interference with the degrading activity of the activated sludge organisms is not expected.

· **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

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

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13 Disposal information

· **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 Transportation information

· **UN-Number**
· **ADR, IMDG, IATA** None

· **UN proper shipping name**
· **ADR, IMDG, IATA** None

· **Transport hazard class(es)**

· **ADR, IMDG, IATA**
· **Class** None

· **Packing group**
· **ADR, IMDG, IATA** None

· **Environmental hazards:**
· **Marine pollutant:** No

· **Special precautions for user** Not applicable.

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

· **Transport/Additional information:** No dangerous goods.
· **UN "Model Regulation":** None

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15 Regulatory information

· **Safety, health, and environmental regulations specific for the hazardous chemical in question**
OSHA 1994 and relevant regulations.
Environmental Quality Act 1974 and regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has 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.

· **Training instructions** For advice on how to use the product see the Product Information.
· **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.
· **Abbreviations and acronyms:**
vPvB: very Persistent and very Bioaccumulative
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
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.
REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals
Acute Tox. 4: Acute toxicity - oral – Category 4
Eye Dam. 1: Serious eye damage or eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· *** Data altered since the previous version.**