

Safety Data Sheet

according to 1907/2006/EC, Article 31

printing date 25.01.2023

version number 18

revision: 24.01.2023

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

- **1.1 Product identifier**
- **Trade name: Microcare DB**
- **Unique Formula Identifier (UFI):** JR1D-D0A4-Q00M-99HJ
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- **Application of the substance/the mixture:** Additive for the cosmetic industry.
- **1.3 Details of the supplier of the safety data sheet:**
- **Address and telephone number of the supplier:**
Thor Specialties (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@thoruk.com
- **1.4 Emergency telephone number:**
National Poisons Information Service (24 h service): 0844-892-0111 (UK only)
National Poisons Information Centre: 01 8092166 (Ireland only)
Transport Emergency phone number (24 h service): +49 621 60-43333

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **In accordance with Regulation (EC) No 1272/2008**



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.
Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **In accordance with Regulation (EC) No 1272/2008.**
The product is labelled according to the regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**
BENZYL ALCOHOL
DEHYDROACETIC ACID
- **Hazard statements**
Harmful if swallowed or if inhaled.
Causes serious eye irritation.

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- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear eye protection / face protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep 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.

- **Supplemental information in terms of art. 25 CLP-Regulation (EC) Nr. 1272/2008: none**

- **2.3 Other hazards**

- **PBT-properties: none**

- **vPvB-properties: none**

- **Determination of endocrine-disrupting properties none**

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Dangerous components:**

CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38	BENZYL ALCOHOL ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	50 - 100%
CAS: 520-45-6 EINECS: 208-293-9 Index number: 607-163-00-2 Reg.nr.: 01-2120747930-51	DEHYDROACETIC ACID ⚠ Acute Tox. 4, H302	2.5 - 10%

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

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **Note:**

Obtain special instructions from the poison information centre: 0844-892-0111 (UK only)

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.

If eye irritation persists: Get medical advice/attention.

- **After swallowing:**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Seek medical treatment.

- **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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

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)
- **5.3 Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow product to enter waters without treatment in a (biological) water treatment plant.
- **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.
- **6.4 Reference to other sections** None

SECTION 7: Handling and storage

- **7.1 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.
Assess hazards arising from work equipment and work places.
- **Information about protection against explosion and fire:** No special measures required.
- **7.2 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:** none
 - **Further information about storage conditions:** Keep containers tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:** None established.
- **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.

Individual protection measures, such as personal protective equipment**General protective and hygienic measures:**

Do not breathe mist/vapours/spray.

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:

Use respiratory equipment if aerosol or mist is formed.

Respirator with filter for use against organic gases and vapours, boiling point above 65 °C and particles (EN 14387).

Hand protection

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.

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/face protection

Goggles (EN 166:2001)

Body protection:

Protective clothing (EN 14605:2009-08)

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**

- **Physical state:** Liquid
- **Colour:** yellow to amber
- **Odour:** mild
- **Melting point/freezing point:** not determined
- **Boiling point or initial boiling point and boiling range** ca. 100 °C
- **Lower and upper explosion limit**
- **Lower:** 1.3 Vol % (CAS: 100-51-6)
- **Upper:** 13.0 Vol % (CAS: 100-51-6)
- **Flash point:** 96 °C
- **Decomposition temperature:** Not determined.
- **pH at 20 °C** ca. 4
acidic

- **Viscosity:**
- **dynamic (η):** Not determined.
- **Solubility**
- **Water:** Fully miscible
- **Partition coefficient n-octanol/water (log value)** see section 12
- **Vapour pressure at 20 °C:** 0.1 hPa (CAS: 100-51-6)
- **Density and/or relative density**
- **Density at 20 °C:** 1.04-1.08 g/cm³
- **Relative density (D²⁰₄):** Not relevant for safety

- **9.2 Other information**
- **Explosive properties:** Product is not explosive. However, formation of explosive air/gas mixtures is possible.

- **Oxidising properties** None

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
The evaluation of the relevant available information does not show an indication of any metal corrosive property.
- **10.2 Chemical stability**
- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Minimum shelf life:** 18 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:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
None, if storage and handling is done according to specification.

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SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed or if inhaled.

· **Acute toxicity estimates (ATE) or LD₅₀/LC₅₀ values:**

oral	ATE	1435 mg/kg (calculated)
dermal	ATE	> 2000 mg/kg (calculated)
inhalative	ATE, Dusts and mists	4.8 mg/l (calculated)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Causes serious eye irritation.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **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.
- **11.2 Information on other hazards** none
- **Endocrine disrupting properties**
Data on endocrine disrupting properties are not available. (Human health)

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

100-51-6 BENZYL ALCOHOL

EC ₁₀ / 16 h	658 mg/l (Pseudomonas putida) (OECD 201) literature
EC ₅₀ / 72 h	> 100 mg/l (Pseudokirchneriella subcapitata) (OECD 201) Dossier (REACH)
EC ₅₀ / 48 h	> 100 mg/l (Daphnia) (OECD 202) Dossier (REACH)
LC ₅₀ / 96 h	460 mg/l (fathead minnow) (OECD 203) Dossier (REACH)
NOEC / 21 d	51 mg/l (Daphnia) (OECD 211) literature
NOEC / 72 h	310 mg/l (Pseudokirchneriella subcapitata) (OECD 201) literature

520-45-6 DEHYDROACETIC ACID

EC ₁₀ / 72 h	23.9 mg/l (Pseudokirchneriella subcapitata) (OECD 201) Dossier (REACH)
EC ₅₀ / 72 h	32.1 mg/l (Pseudokirchneriella subcapitata) (OECD 201) Dossier (REACH)
EC ₅₀ / 48 h	> 100 mg/l (Daphnia) (OECD 202) Dossier (REACH)

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· **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.

· **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.

· **12.2 Persistence and degradability**

· **Rapid degradability of organic substances:**

100-51-6 BENZYL ALCOHOL

OECD 301 A DOC Die-Away-Test	95 - 97 % (Activated Sludge) literature
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OECD 301 C MITI	92 - 96 % (Activated Sludge) literature
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520-45-6 DEHYDROACETIC ACID

OECD 301 F Manometric Respiratory	> 70 % Dossier (REACH)
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· **Evaluation:**

The component(s) is (are) rapidly degradable.

Substances are considered rapidly degradable in the environment if one of the following criteria holds true: if, in 28-day ready biodegradation studies, at least the following levels of degradation are achieved within 10 days of the start of degradation: 70% dissolved organic carbon or 60% oxygen depletion or carbon dioxide generation; (see GB CLP-Regulation Annex I section 4.1.2.9 and GB CLP Guidance version 4.1 Annex II.2).

· **Behaviour in sewage treatment plants:**

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

· **12.3 Bioaccumulative potential**

· **Bioconcentration factor (BCF) / octanol/water partition coefficient (LogKow):**

100-51-6 BENZYL ALCOHOL

OECD 305 Bioconcentration factor	1.37 (-) literature
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OECD 107 LogKow (Shake Flask Method)	1.1 (n-octanol/water) Dossier (REACH)
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520-45-6 DEHYDROACETIC ACID

OECD 305 Bioconcentration factor	92 (rainbow trout) literature
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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**

· **Persistent, bioaccumulative and toxic substances (PBT):** none

· **Very persistent and very bioaccumulative substances (vPvB):** none

· **12.6 Endocrine disrupting properties** Data on endocrine disrupting properties are not available.

· **12.7 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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Hazardous waste. Separate waste disposal to be applied.
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
HP4	Irritant - skin irritation and eye damage
HP6	Acute Toxicity

- **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

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** None
- **14.2 UN proper shipping name**
- **ADR, IMDG, IATA** None
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
- **Class** None
- **14.4 Packing group**
- **ADR, IMDG, IATA** None
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:** No dangerous goods.

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· **UN "Model Regulation":** None

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SECTION 15: Regulatory information

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

- **Directive 2012/18/EU - Seveso III**
- **Named dangerous substances - ANNEX I** none
- **Regulation (EC) No 1223/2009 on cosmetic products - Cosmetics Regulation:**
The list of preservatives allowed in cosmetic products (Annex V) shall be observed.

· **Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **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)**

This substance/mixture is not subject to ordinance on industrial accidents (Seveso Directive; substance list, Annex I).

· **Volatile organic carbons (VOC):**

· **Directive 2010/75/EU:** 87 %

· **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 feature nor does it establish a legally valid contractual relationship.

· **Relevant hazard statements**

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

· **Training instructions** For advice on how to use the product see the Product Information.

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· **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.

Acute toxicity - oral	Calculation method
Acute toxicity - inhalation	
Serious eye damage/irritation	

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

GB CLP: Classification, Labelling and Packaging.

UK REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

U.S. EPA: United States Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act.

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

· **Key literature references and sources for data:**

Further information regarding physical-chemical, toxicological and ecotoxicological properties of the substances contained, can be taken from the data set for the substance (<http://echa.europa.eu/en/>).

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