

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 21.11.2016

Version number 4

Revision: 21.11.2016

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

- **1.1 Product identifier**
- **Trade name:** **THERMACUT COOLANT (T-13001/T-13002/T-13005/T-13008)**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** *Identified use: intended for professional use only!*
- **Application of the substance / the mixture** *Coolant/ Cutting solution*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** THERMACUT, k.s.,  
SOKOLOVSKÁ 574  
686 01 UHERSKÉ HRADIŠTĚ  
CZECH REPUBLIC  
Tel: +420 572 420 411  
Fax: +420 572 420 420  
E-mail: info@THERMACUT.CZ  
www.thermacut.com
- **Further information obtainable from:** *Product Management*
- **1.4 Emergency telephone number:** *Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen  
Langenbeckstraße 1; Gebäude 601; 55131 Mainz  
Tel. Nr.: +49 (0)6131 / 19 24 0  
Universitätsmedizin der Johannes Gutenberg-Universität Mainz*

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** *The product is not classified according to the CLP regulation.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Void*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements** *Void*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

## SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** *Mixture: consisting of the following components.*
- **Dangerous components:**

CAS: 57-55-6	propane-1,2-diol	substance with a Community workplace exposure limit	25-50%
EINECS: 200-338-0			
- **Additional information:** *For the wording of the listed hazard phrases refer to section 16.*

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** *Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*

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- **After inhalation:** Do not leave affected persons unattended.  
Personal protection for the First Aider.  
Take affected persons out of danger area and lay down.  
In case of unconsciousness place patient stably in side position for transportation.  
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
Protect unharmed eye.  
If symptoms persist consult doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.  
Alcohol resistant foam
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 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 to enter sewers/ surface or ground water.  
Prevent from spreading (e.g. by damming-in or oil barriers).
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections** See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.  
Use only in well ventilated areas.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Recommended storage temperature: 10-30 °C

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- 7.3 Specific end use(s)

No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities:

No further data; see item 7.

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

**57-55-6 propane-1,2-diol**

WEL Long-term value: 474\* 10\*\* mg/m<sup>3</sup>, 150\* ppm  
\*total vapour and particulates \*\*particulates

- Additional information:

The lists valid during the making were used as basis.

- 8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

- Respiratory protection:

When used properly and under normal conditions, breathing protection is not required.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter A/P2

- Protection of hands:



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.  
Check protective gloves prior to each use for their proper condition.  
The glove material has to be impermeable and resistant to the product/  
the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times,  
rates of diffusion and the degradation  
After use of gloves apply skin-cleaning agents and skin cosmetics.

- Material of gloves

Recommended materials:

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.5$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove material

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.1$  mm

Penetration time (min.): <10

- Eye protection:



Tightly sealed goggles

- Body protection:

Protective work clothing

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Impervious protective clothing

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## SECTION 9: Physical and chemical properties

### - 9.1 Information on basic physical and chemical properties

#### - General Information

#### - Appearance:

**Form:** Fluid  
**Colour:** According to product specification

- **Odour:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

#### - Change in condition

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

#### - Ignition temperature:

**Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

#### - Explosion limits:

**Lower:** Not determined.

**Upper:** Not determined.

- **Density at 20 °C:** 1.03 g/cm<sup>3</sup>

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

#### - Solubility in / Miscibility with water:

Fully miscible.

- **Partition coefficient (n-octanol/water):** Not determined.

#### - Viscosity:

**Dynamic:** Not determined.

**Kinematic:** Not determined.

- **9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.

#### - 10.2 Chemical stability

#### - Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

#### - 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.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

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

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

**57-55-6 propane-1,2-diol**

Oral	LD50	20000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50	40613 mg/m <sup>3</sup> (Oncorhynchus mykiss (Regenbogenforelle)) (96h)

- **Primary irritant effect:**  
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.  
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.  
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.  
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
- **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:**

**57-55-6 propane-1,2-diol**

IC50	24200 mg/l (Selenastrum capricornutum) (72h)
EC0	>20000 mg/l (Pseudomonas putida) (18h)
EC50	18340 mg/l (Ceriodaphnia dubia) (48h)
	18800 mg/l (Mysidopsis bahia) (48h)
	>100 mg/l (Daphnia magna) (48h)
	19000 mg/l (Skeletonema costatum) (48h)

- **12.2 Persistence and degradability** No further relevant information available.  
- **12.3 Bioaccumulative potential** No further relevant information available.  
- **12.4 Mobility in soil** No further relevant information available.  
- **Additional ecological information:**  
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
- **12.5 Results of PBT and vPvB assessment**  
- **PBT:** Not applicable.  
- **vPvB:** Not applicable.  
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**  
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Must be specially treated adhering to official regulations.

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

- **14.1 UN-Number**  
- **ADR, ADN, IMDG, IATA** Void
- **14.2 UN proper shipping name**  
- **ADR, ADN, IMDG, IATA** Void
- **14.3 Transport hazard class(es)**  
- **ADR, ADN, IMDG, IATA**  
- **Class** Void
- **14.4 Packing group**  
- **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:**  
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **UN "Model Regulation":** Void

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 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.

- **Department issuing SDS:** Product Management
- **Contact:** Product Management
- **Abbreviations and acronyms:**
  - 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
  - vPvB: very Persistent and very Bioaccumulative
- **Sources**
  - Internet:
  - [www.echa.com](http://www.echa.com)
  - [www.baua.de](http://www.baua.de)
  - [www.gestis.itrust.de](http://www.gestis.itrust.de) (IFA: Institute für Occupational Safety and

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Health of the German Social Accident Insurance)

- \* Data compared to the previous  
version altered.

EN