



## GREASE perfect

WM 0712574

Order number: 0712574

Version 5.9

Revision Date 23.01.2023

Print Date 05.02.2023

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

#### 1.1 Product identifier

Trade name : GREASE perfect  
UFI : 4GU3-V0G3-600T-UKJM

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Cleaning agent  
Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH  
Rheinallee 96  
55120 Mainz  
Telephone : +49613196403  
Telefax : +4961319642414  
E-mail address : Produktsicherheit@werner-mertz.com  
Responsible/issuing person  
Contact person : Product development / product safety

#### 1.4 Emergency telephone number

112  
Centru za kontrolu otrovanja u Zagrebu na tel. (01) 2348 342  
+49(0)6131-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : P102 Keep out of reach of children.

##### Prevention:

P260 Do not breathe spray.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face



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protection.

**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

**Disposal:**  
P501 Dispose of container into the collection of recyclables only when it is completely empty.

Safety data sheet available on request.

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous surfactant solution.

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2,2'-methyliminodiethanol	105-59-9 203-312-7 603-079-00-5 01-2119488970-24	Eye Irrit. 2; H319	>= 2 - < 5
Octan-1-ol, ethoxylated (4 EO)	27252-75-1 500-058-1	Eye Dam. 1; H318	>= 2 - < 3
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 <hr/> specific concentration limit Eye Irrit. 2; H319 >= 50 %	>= 1 - < 2

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.  
If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.



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Wash off with soap and plenty of water.  
If symptoms persist, call a physician.

- In case of eye contact : Protect unharmed eye.  
If easy to do, remove contact lens, if worn.  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Irritation
- Risks : No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.



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### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralise with acid.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Cleaning agent

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : If splashes are likely to occur, wear:  
Tightly fitting safety goggles

Hand protection



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Material	:	For prolonged or repeated contact use protective gloves. It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Skin and body protection	:	not required under normal use
Respiratory protection	:	Not required; except in case of aerosol formation. Recommended Filter type: ABEK-P3-filter

### SECTION 9: Physical and chemical properties

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

Appearance	:	liquid
Colour	:	yellow, clear
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	ca. 11,2, 100 % at 20 °C
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	No data available
Burning rate	:	No data available
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	ca. 1,010 g/cm <sup>3</sup> at 20 °C
Water solubility	:	soluble
Solubility in other solvents	:	No data available



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Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Thermal decomposition	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.  
No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
No decomposition if used as directed.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Our company is strongly against animal testing.  
Our company does not place any orders for animal testing for the finished product or the ingredients.  
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

#### Acute toxicity

Acute toxicity : Not Rated



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### Components:

#### **2,2'-methyliminodiethanol**

##### **105-59-9:**

Acute oral toxicity : LD50 (Rat): 4.680 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402

#### **Octan-1-ol, ethoxylated (4 EO)**

##### **27252-75-1:**

Acute oral toxicity : LD50 Oral: > 2.000 mg/kg

#### **ethanol**

##### **ALCOHOL:**

Acute oral toxicity : LD50 Oral (Rat): 10.470 mg/kg  
Method: OECD Test Guideline 401

LD50 (Rat): 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 51 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): > 10.000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

#### Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

### Components:

#### **2,2'-methyliminodiethanol**

##### **105-59-9:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **ethanol**

##### **ALCOHOL:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation



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### Serious eye damage/eye irritation

**Product:**

Remarks : Causes serious eye irritation.

**Components:**

**2,2'-methyliminodiethanol**

**105-59-9:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.

**ethanol**

**ALCOHOL:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Mild eye irritation

### Respiratory or skin sensitisation

**Product:**

Remarks : No data available

**Components:**

**2,2'-methyliminodiethanol**

**105-59-9:**

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

**ethanol**

**ALCOHOL:**

Result : Not a skin sensitizer.

Germ cell mutagenicity : Not Rated

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.





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### Repeated dose toxicity

#### Components:

ethanol

#### ALCOHOL:

Species : Rat, male  
NOAEL : > 20 mg/kg  
Method : OECD Test Guideline 403

Species : Rat, female  
NOAEL : 1.730 mg/kg  
Method : OECD Test Guideline 408

Aspiration toxicity : Not Rated

### 11.2 Information on other hazards

#### Further information

#### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### 105-59-9:

Toxicity to fish : (Leuciscus idus (Golden orfe)): 1.466 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 233 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): 6,25 mg/l  
Exposure time: 72 h  
  
EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC20 (activated sludge): > 1.000 mg/l  
Exposure time: 0,5 h  
Method: OECD Test Guideline 209

#### 27252-75-1:

Toxicity to fish : LC50 (Fish): 10 - 100 mg/l  
Test Type: semi-static test  
Method: ISO 7346/2



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Toxicity to microorganisms : (Bacteria): > 100 mg/l  
Method: OECD Test Guideline 209

### ALCOHOL:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 13 g/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC50 (Leuciscus idus (Golden orfe)): 8.150 mg/l  
Exposure time: 48 h

LC50 (Pimephales promelas (fathead minnow)): > 0,1 g/l  
Exposure time: 96 h

LC50 (Fish): 11.200 mg/l

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 12.340 mg/l  
aquatic invertebrates Exposure time: 48 h

EC50 : 5.012 mg/l

Toxicity to algae/aquatic : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l  
plants Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

EC50 (Scenedesmus capricornutum (fresh water algae)):  
12.900 mg/l  
Exposure time: 48 h  
Test Type: Growth inhibition  
Method: No information available.

EC0 (Scenedesmus quadricauda (Green algae)): 5.000 mg/l  
Exposure time: 168 h

EC50 : 4.432 mg/l

EC10 : 11,5 mg/l

EC10 : 280 mg/l

Toxicity to microorganisms : EC50 (Pseudomonas putida): 11.800 mg/l  
Exposure time: 16 h  
Test Type: Cell multiplication inhibition test

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation  
complies (comply) with the biodegradability criteria as laid  
down in Regulation (EC) No. 648/2004 on detergents.



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### Components:

#### **105-59-9:**

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 96 %  
Exposure time: 18 d  
Method: OECD 301 A

#### **ALCOHOL:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %  
Method: OECD Test Guideline 301

### 12.3 Bioaccumulative potential

#### Components:

#### **ALCOHOL:**

Bioaccumulation : Concentration: 3,2 mg/l

Partition coefficient: n-  
octanol/water : log Pow: -0,32

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : There is no data available for this product.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.



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### SECTION 14: Transport information

#### 14.1 UN number

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.2 Proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.4 Packing group

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.5 Environmental hazards

**ADR**

Not dangerous goods

**IMDG**

Not regulated as a dangerous good

**IATA**

Not dangerous goods

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

For personal protection see section 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU : Not applicable



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of the European Parliament and of  
the Council on the control of  
major-accident hazards involving  
dangerous substances.

TA Luft List (Germany)

- : Total dust: Not applicable
- : Inorganic substances in powdered form: Not applicable
- : Inorganic substances in vapour or gaseous form: : portionClass 3:  
0,01 %
- : Organic Substances: Not applicable
- : Carcinogenic substances: Not applicable
- : Mutagenic: Not applicable
- : Toxic to reproduction: Not applicable

Volatile organic compounds  
(VOC) content

- : Directive 2010/75/EU of 24 November 2010 on industrial emissions  
(integrated pollution prevention and control)  
Update: Percent volatile: 1,95 %  
197,2 g/l  
VOC content excluding water

Volatile organic compounds  
(VOC) content

- : Directive 2010/75/EU of 24 November 2010 on industrial emissions  
(integrated pollution prevention and control)  
Update: Percent volatile: 1,95 %  
19,74 g/l  
VOC content valid only for coating materials used on wood surfaces

according to Detergents  
Regulation EC 648/2004

- : <5% Anionic surfactants, Non-ionic surfactants

GISBAU (D)

- : GU 80

### 15.2 Chemical safety assessment

There is no data available for this product.

## SECTION 16: Other information

### Full text of H-Statements

- H225 : Highly flammable liquid and vapour.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.

### Full text of other abbreviations

- Eye Dam. : Serious eye damage
- Eye Irrit. : Eye irritation
- Flam. Liq. : Flammable liquids

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;  
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC -  
Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body  
weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR -  
Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation;  
DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European  
Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x%  
response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -  
Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good



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Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Eye Irrit. 2

H319

#### Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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