

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



Tana-Chemie GmbH  
Werner & Mertz Group

## GREASE TOPSWITCH

WM 0716233

Order number: 0716233

Version 1.4

Revision Date 13.03.2025

Print Date 03.06.2025

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

#### 1.1 Product identifier

Trade name : GREASE TOPSWITCH  
UFI : 6JR6-T0HH-G00X-RPU9

#### 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

+49(0)551-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Serious eye damage, Category 1 H318: Causes serious eye damage.

Skin corrosion, Category 1 H314: Causes severe skin burns and eye damage.

#### 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements : P102 Keep out of reach of children.

##### Prevention: P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

##### Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce

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vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P310  
**Disposal:**  
P501 Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous components which must be listed on the label:

Alcohols, C12-14, ethoxylated  
(7 EO)  
D-Glucopyranose, oligomers,  
decyl octyl glycosides

Safety data sheet available on request.

### Classification in use concentration

5ml/4L; 5ml/0,75L; Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Alcohols, C12-14, ethoxylated (7 EO)	68439-50-9 500-213-3	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412  M-Factor (Acute aquatic toxicity): 1  specific concentration limit Eye Dam. 1; H318 > 10 % Eye Irrit. 2; H319 > 1 - 10 %	>= 20 - < 25

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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 - < 10
Fatty acids, coco, potassium salts	61789-30-8 263-049-9	Eye Irrit. 2; H319	≥ 1 - < 10
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1 500-220-1 01-2119488530-36	Eye Dam. 1; H318 <hr/> specific concentration limit Eye Dam. 1; H318 > 10 % Eye Irrit. 2; H319 10 %	≥ 3 - < 10

### 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.  
Wash off with soap and plenty of water.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Protect unharmed eye.  
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

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

- Symptoms : corrosive effects
- 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

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Information Service.

### 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.

### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.

#### 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.

### 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.

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Smoking, eating and drinking should be prohibited in the application area.

To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Vapours may form explosive mixtures with air.

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. 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)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	950 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Consumers	Inhalation	Acute local effects	950 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	206 mg/kg
	Consumers	Inhalation	Long-term systemic effects	114 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	87 mg/kg
	Consumers	Skin contact	Acute local effects	950 mg/m <sup>3</sup>
D-Glucopyranose, oligomers, decyl octyl	Workers	Skin contact	Long-term systemic effects	595000 mg/kg

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glycosides				
	Workers	Inhalation	Long-term systemic effects	420 mg/m3
	Consumers	Skin contact	Long-term systemic effects	357000 mg/kg
	Consumers	Inhalation	Long-term systemic effects	124 mg/m3
	Consumers	Ingestion	Long-term systemic effects	35,7 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
ethanol	Fresh water	0,96 mg/l
	Marine water	0,79 mg/l
	Fresh water sediment	3,6 mg/kg
	Soil	0,63 mg/kg
	STP	580 mg/l
	intermittent release	2,75 mg/l
D-Glucopyranose, oligomers, decyl octyl glycosides	Fresh water	0,176 mg/l
	Marine water	0,0176 mg/l
	intermittent release	0,27 mg/l
	STP	560 mg/l
	Fresh water sediment	1,516 mg/kg
	Marine sediment	0,152 mg/kg
	Soil	0,654 mg/kg
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt, dihydrate	Fresh water	0,44 mg/l
	Marine water	0,044 mg/l
	STP	1000 mg/l
	Fresh water sediment	34,6 mg/kg

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	Marine sediment	3,46 mg/kg
	Soil	33,1 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

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 : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Remove and wash contaminated clothing before re-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

Physical state : liquid

Colour : yellow

Odour : pleasant

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

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Flammability (solid, gas)	: No data available
Flammability (liquids)	: Not classified as supporting combustion according to the transport regulations.
Lower explosion limit	: at 36,5 °C
Upper explosion limit	: No data available
Flash point	: 39,5 °C
Ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: ca. 12,7, 100 % at 20 °C
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Water solubility	: completely soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Vapour pressure	: No data available
Density	: 1,015 g/cm <sup>3</sup> at 20 °C
Relative density	: No data available
Relative vapour density	: No data available
Particle characteristics	: 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



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### 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

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

##### Components:

#### Alcohols, C12-14, ethoxylated (7 EO)

##### 68439-50-9:

Acute oral toxicity : LD50 Oral (Rat): 300 - 2.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

#### ethanol

##### 64-17-5:

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

#### D-Glucopyranose, oligomers, decyl octyl glycosides

##### 68515-73-1:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : (Rabbit): > 2.000 mg/kg

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Method: OECD Test Guideline 402

### Skin corrosion/irritation

#### Product:

Remarks : Extremely corrosive and destructive to tissue.

#### Components:

ethanol

#### 64-17-5:

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

### D-Glucopyranose, oligomers, decyl octyl glycosides

#### 68515-73-1:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks : May cause irreversible eye damage.

#### Components:

ethanol

#### 64-17-5:

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

### D-Glucopyranose, oligomers, decyl octyl glycosides

#### 68515-73-1:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irreversible effects on the eye

### Respiratory or skin sensitisation

#### Product:

Remarks : No data available

#### Components:

ethanol

#### 64-17-5:

Result : Not a skin sensitizer.

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### D-Glucopyranose, oligomers, decyl octyl glycosides

#### 68515-73-1:

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

### Germ cell mutagenicity

Germ cell mutagenicity : Not Rated

### Components:

#### Alcohols, C12-14, ethoxylated (7 EO)

#### 68439-50-9:

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

### D-Glucopyranose, oligomers, decyl octyl glycosides

#### 68515-73-1:

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

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.

### Repeated dose toxicity

### Components:

#### ethanol

#### 64-17-5:

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

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### 11.2 Information on other hazards

#### Further information

##### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **Alcohols, C12-14, ethoxylated (7 EO), Alcohols, C12-14, ethoxylated**

##### **68439-50-9:**

- Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1 - 10 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203
- LC50 (Fish): > 1 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 1 - 10 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- EC10 (Desmodesmus subspicatus (green algae)): 0,1 - 1 mg/l  
Exposure time: 72 h  
Test Type: static test
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (Bacteria): 140 mg/l
- Toxicity to soil dwelling organisms : 220 mg/kg  
Species: Eisenia fetida (earthworms)
- Plant toxicity : 10 mg/l  
Species: Lepidium sativum (cress)  
Method: see user defined free text

#### **ethanol**

##### **64-17-5:**

- 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

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	LC50 (Pimephales promelas (fathead minnow)): > 0,1 g/l Exposure time: 96 h
	LC50 (Fish): 11.200 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 12.340 mg/l Exposure time: 48 h  EC50 : 5.012 mg/l
Toxicity to algae/aquatic plants	: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l 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

### D-Glucopyranose, oligomers, decyl octyl glycosides

#### 68515-73-1:

Toxicity to fish	: LC50 (Brachydanio rerio (zebrafish)): 100,81 mg/l Exposure time: 96 h  NOEC (Brachydanio rerio (zebrafish)): 1,8 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h  NOEC (Daphnia magna (Water flea)): 1,0 mg/l
Toxicity to algae/aquatic plants	: EC50 (Scenedesmus subspicatus): 27,22 mg/l Exposure time: 72 h

## 12.2 Persistence and degradability

### Components:

#### Alcohols, C12-14, ethoxylated (7 EO), Alcohols, C12-14. ethoxylated

#### 68439-50-9:

Biodegradability	: Result: Readily biodegradable. Biodegradation: > 70 % Exposure time: 28 d Method: OECD 301 A
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Result: rapidly biodegradable  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD 301 B

### ethanol

#### 64-17-5:

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

### D-Glucopyranose, oligomers, decyl octyl glycosides

#### 68515-73-1:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD 301 E

## 12.3 Bioaccumulative potential

### Components:

#### ethanol

#### 64-17-5:

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

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 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.
Waste Code	European Waste Catalogue 20 01 29* According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

**ADR**  
Not dangerous goods  
**RID**  
Not dangerous goods  
**IMDG**  
Not dangerous goods  
**IATA**  
Not dangerous goods

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

**ADR**  
Not dangerous goods  
**RID**  
Not dangerous goods  
**IMDG**  
Not dangerous goods  
**IATA**  
Not dangerous goods

#### 14.4 Packing group

**ADR**  
Not dangerous goods  
**RID**  
Not dangerous goods  
**IMDG**  
Not dangerous goods  
**IATA**  
Not dangerous goods

#### 14.5 Environmental hazards

**ADR**  
Not dangerous goods  
**RID**

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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 Maritime transport in bulk according to IMO instruments

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, mixtures and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable  
: Inorganic substances in powdered form: Not applicable  
: Inorganic substances in vapour or gaseous form: Not applicable  
: 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: 9,71 %

according to Detergents Regulation EC 648/2004 : 15 - <30% non-ionic surfactants, 5 - <15% soap, perfumes

#### 15.2 Chemical safety assessment

### SECTION 16: Other information

#### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H302 : Harmful if swallowed.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



Tana-Chemie GmbH  
Werner & Mertz Group

## GREASE TOPSWITCH

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H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H412	:	Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
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 - 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 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 Dam. 1	H318
Skin Corr. 1	H314

#### Classification procedure:

Calculation method  
Based on product data or assessment

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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