Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: W5 Kühlschmierstoff

Version number: 2.0 revision: 24.09.2018
Replaces version of: 12.05.2015 (1)

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

1.1 Product identifier

Trade name	**W5 Kühlschmierstoff**
Registration number (REACH)	not relevant (mixture)

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

Relevant identified uses	Cooling lubricant
Uses advised against	For professional users only. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Eurolub Gmb
Freisinger Str. 25 - 27
85386 Eching
Gernamy
Telefon: +49 8165 / 9591-0
Telefax: +49 8165 / 9591-20
Mail: info@eurolub.com
Webseite: www.eurolub.com

1.4 Emergency telephone number

Emergency information service	**+49 8165 / 9591-0** This number is only available during the following of-fice hours: Mo-Th. 07:30 bis 16:00; Fr. 07.30 bis 14:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

hazard class and category	hazard statements
4.1C/3: Aquatic Chronic 3	H412

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word not required

Pictograms not required

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P501 Dispose of contents/container to proper recycling.

Precautionary statements - disposal

P501 Dispose of contents/container to proper recycling.

2.3 Other hazards

The product is a water-polluting liquid. When properly used, no hazards are expected.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Mixture of the substances listed below with harmless additions.

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC
2-phenoxyethanol	CAS No 122-99-6 EC No 204-589-7 REACH Reg. No 01-2119488943-21-xxxx	5 – < 10	Acute Tox. 4 / H302 Eye Irrit. 2 / H319
Alcohols, C16-18 and C18-unsatd., ethoxylated	CAS No 68920-66-1 EC No 500-236-9 REACH Reg. No 01-2119489407-26-xxxx	3 – < 5	Skin Irrit. 2 / H315 Aquatic Chronic 2 / H411

For full text of abbreviations: see SECTION 16
Water-miscible cutting fluid concentrate.
Free from organically bound chlorine.
Mineral oil: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.(1272/2008/EC, Annex VI, CLP note L).

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, Carbon dioxide (CO2), Co-ordinate firefighting measures to the fire surroundings

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Special danger of slipping by leaking/spilling product.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sweeping compounds (oil absorbing).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

• Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Incompatible substances or mixtures

Observe hints for combined storage. Keep only in original container. Keep container tightly closed. Do not store together with oxidizing and acidic materials.

• Control of effects

• Protect against external exposure, such as

frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
DE	2-phenoxyethanol	122-99-6	AGW	1	5,7	1	5,7	TRGS 900
DE	2-phenoxyethanol	122-99-6	MAK	1	5,7	1	5,7	DFG
DE	2-hexyldecan-1-ol	2425-77-6	AGW	20	200	20	200	TRGS 900

Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-phenoxyethanol	122-99-6	DNEL	8,07 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-phenoxyethanol	122-99-6	DNEL	34,72 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
2-phenoxyethanol	122-99-6	DNEL	8,07 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	DNEL	2.080 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	DNEL	294 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

• relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2-phenoxyethanol	122-99-6	PNEC	0,943 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	0,0943 mg/l	aquatic organisms	marine water	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	24,8 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	7,237 mg/kg	benthic organisms	sediments	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	0,7237 mg/kg	pelagic organisms	sediments	short-term (single instance)

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2-phenoxyethanol	122-99-6	PNEC	1,26 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
2-phenoxyethanol	122-99-6	PNEC	3,44 $^{mg}/_{l}$	aquatic organisms	water	intermittent release
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	0,002 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	0,002 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	10 $^{g}/_{l}$	microorganisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	6,33 $^{mg}/_{kg}$	benthic organisms	sediments	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	6,33 $^{mg}/_{kg}$	pelagic organisms	sediments	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	1 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	PNEC	0,51 $^{mg}/_{l}$	aquatic organisms	water	intermittent release

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

• hand protection

Preventive skin protection (barrier creams/ointments) is recommended. Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. Replace when worn.

• breakthrough times of the glove material

>240 minutes (permeation: level 5)

• recommended protective gloves (trademark/manufacturer)

Camatril Velours 730, KCL

Respiratory protection

Local and general ventilation. In case of insufficient ventilation, wear suitable respiratory equipment: Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	brown
Odour	characteristic

Other physical and chemical parameters

pH (value)	9,1 (water: 50 $^{g}/_{l}$, 20 °C)
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	>100 °C (ISO 2592)
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	
• lower explosion limit (LEL)	1,4 vol%
• upper explosion limit (UEL)	9 vol%
Vapour pressure	not determined
Density	0,98 $^{g}/_{cm^3}$ at 20 °C (DIN 51757)
Solubility(ies)	
Water solubility	soluble - miscible in any proportion
Partition coefficient	
n-octanol/water (log KOW)	This information is not available.
Auto-ignition temperature	not determined
Viscosity	
• kinematic viscosity	46 $^{mm^2}/_{s}$ at 40 °C (DIN EN 16896)
Explosive properties	none
Oxidising properties	none

9.2 Other information

There is no additional information.

These information are not available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Strong oxidiser

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

• Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
2-phenoxyethanol	122-99-6	oral	1.850 $^{mg}/_{kg}$

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Information on toxicological effects

When used and handled according to specifications, the product does to our experience and the information provided to us, no adverse health effects.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-phenoxyethanol	122-99-6	LC50	344 $^{mg}/_{l}$	fish	96 h
2-phenoxyethanol	122-99-6	ErC50	625 $^{mg}/_{l}$	algae	72 h
2-phenoxyethanol	122-99-6	EC50	>500 $^{mg}/_{l}$	aquatic inverteb-rates	48 h
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	LC50	108 $^{mg}/_{l}$	fish	96 h

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-phenoxyethanol	122-99-6	EC50	>1.000 $^{mg}/_{l}$	microorganisms	30 min

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
2-phenoxyethanol	122-99-6	DOC removal	>90 %	15 d
2-phenoxyethanol	122-99-6	oxygen depletion	90 %	28 d
2-phenoxyethanol	122-99-6	carbon dioxide generation	75 %	28 d
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1	carbon dioxide generation	99 %	28 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
2-phenoxyethanol	122-99-6	4,5	1,2 (pH value: 5, 23 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

Concentrate: 12 01 07x
Emulsion: 12 01 09x
Dispose of contents/container in accordance with local/regional/national/international regulations

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	(not subject to transport regulations)
14.2	UN proper shipping name	not relevant
14.3	Transport hazard class(es)	
	Class	-
14.4	Packing group	not relevant
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

• List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

VOC content 0 %

• Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

National regulations (Germany)

• Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse (WGK): 1 (slightly hazardous to water)

• Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK): 10 (combustible liquids)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

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15.1.

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Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
1272/2008/EC, Annex VI	Harmonised classification and labelling for certain hazardous substances
Acute Tox.	Acute toxicity
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für GefahrStoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average

Abbr.	Descriptions of used abbreviations
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.