

Safety Data Sheet

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



Trade name : TURMOTEMP II/400 KL
Revision date : 30.10.2024
Print date : 11.11.2024

Version (Revision) : 2.3.0 (2.2.0)

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

1.1 Product identifier

TURMOTEMP II/400 KL

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

Relevant identified uses

Product Categories [PC]

PC24 - Lubricants, greases, release products

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Lubricant Consult GmbH

Street : Gutenbergstraße 13

Postal code/city : 63477 MAINTAL (GERMANY)

Telephone : +49 6109/7650-0

Telefax : +49 6109/7650-51

E-mail : msds-request@lubcon.com

Information contact : Environment, Health & Safety: Dr. Rüdiger Hofmann

US Distributor
Fuchs Lubricants Co.
17050 Lathrop Avenue
Harvey, IL 60426
(708) 333-8900
(800) 255-3924 24 hrs
Emergency

1.4 Emergency telephone number

+49 6109/7650-0

Monday to Friday 8:00 AM to 4:00 PM (CET)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

None

2.2 Label elements

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

Special rules for supplemental label elements for certain mixtures

EUH210

Safety data sheet available on request.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

1H-Benzotriazole (1,2,3) ; REACH registration No. : 01-2119979079-20-xxxx ; EC No. : 202-394-1; CAS No. : 95-14-7

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

Further ingredients

PFPE oil (Perfluoropolyethers)

PTFE powder (Polytetrafluoroethylene)

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Inorganic solid compounds

Additives not to declare

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Change contaminated, saturated clothing. Wash immediately with: Water and soap In case of skin irritation, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

The product itself does not burn. Reactions with combustible materials are possible.

5.1 Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂). ABC-powder. BC-powder. Foam. Dry sand.

Unsuitable extinguishing media

Water. Strong water jet. High power water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

Gases/vapours, corrosive. Very toxic by inhalation. Pyrolysis products, toxic, containing fluorine. Hydrogen fluoride.

5.3 Advice for firefighters

Use suitable breathing apparatus.

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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SECTION 6: Accidental release measures

Special danger of slipping by leaking/spilling product. Keep away from sources of ignition - No smoking.

6.1 Personal precautions, protective equipment and emergency procedures

None

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Ensure waste is collected and contained. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Soak up inert absorbent and dispose as waste requiring special attention. Suitable material for taking up: Universal binder. Kieselguhr.

6.4 Reference to other sections

None

SECTION 7: Handling and storage



7.1 Precautions for safe handling

It is recommended to design all work processes always so that the following is excluded: Generation/formation of mist. Avoid: Inhalation of vapours or spray/mists Skin contact. Eye contact. When using do not eat, drink, smoke, sniff.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Storage class : 13

Storage class (TRGS 510) : 13

Keep away from

Food and feedingstuffs

Further information on storage conditions

Keep/Store only in original container. Keep container tightly closed. Protect against Humidity. Dust deposits.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Separate storage of work clothes. Take the precautions customary when handling chemicals.

8.1 Control parameters

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type :	DNEL Consumer (systemic) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,54 mg/kg
Safety factor :	1 d
Limit value type :	DNEL Consumer (systemic) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route :	Dermal

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Exposure frequency : Long-term (repeated)
Limit value : = 0,54 mg/kg
Safety factor : 1 d
Limit value type : DNEL Consumer (systemic) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : = 9,55 mg/m³
Limit value type : DNEL worker (systemic) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : = 1,08 mg/kg
Safety factor : 1 d
Limit value type : DNEL worker (systemic) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : = 19 mg/m³

PNEC

Limit value type : PNEC (Aquatic, freshwater) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Water (Including sewage plant)
Limit value : = 0,0194 mg/l
Limit value type : PNEC (Aquatic, freshwater) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Water (Including sewage plant)
Limit value : = 0,158 mg/l
Limit value type : PNEC (Aquatic, marine water) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Water (Including sewage plant)
Limit value : = 0,0194 mg/l
Limit value type : PNEC (Sediment, freshwater) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Water (Including sewage plant)
Limit value : = 0,00375 mg/kg
Limit value type : PNEC (Sediment, marine water) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Water (Including sewage plant)
Limit value : = 0,00375 mg/kg
Limit value type : PNEC Soil (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Limit value : = 0,003 mg/kg
Limit value type : PNEC (Sewage treatment plant) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Water (Including sewage plant)
Limit value : = 39,4 mg/kg

8.2 Exposure controls

Personal protection equipment

Eye/face protection

None, if handled according to order. Eye protection: not required. Avoid: Eye contact.

Recommended eye protection articles

DIN EN 166

Skin protection

Hand protection

Hand protection is not required

By long-term hand contact : Wear suitable gloves.

Suitable material : PE (Polyethylene). NR (natural rubber, natural latex). NBR (Nitrile rubber). BR (Butyl caoutchouc, butyl rubber).

Breakthrough time (maximum wearing time) : PE > 480 min.; NR > 480 min.; CR > 480 min.; NBR > 480 min.; BR > 480 min.

Thickness of the glove material : min. 0,38 mm

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Recommended glove articles : EN ISO 374; DIN EN 420 Uvex. KCL, MAPA. Or comparable articles from other companies.

Respiratory protection

No special measures are necessary. Avoid: Inhalation of vapours or spray/mists

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour : white

Safety relevant basis data

Physical state :				pasty
Initial boiling point and boiling range :	(1013 hPa)	>	300	°C
Decomposition temperature :	(1013 hPa)	>	260	°C
Flash point :	(1013 hPa)		none	
Vapour pressure :	(50 °C)	<<	0,01	hPa
Density :	(20 °C)	=	1,99	g/cm ³

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Alkali metals. Alkaline earth metal. Powdered metals. Light metals. Aluminium. Titanium. Lewis-acid.

10.4 Conditions to avoid

Thermal decomposition can lead to the release of toxic and corrosive gases.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Pyrolysis products, toxic, containing fluorine. Hydrogen fluoride.

SECTION 11: Toxicological information

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

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

By analogy:

Acute effects

Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg

Acute dermal toxicity

Parameter :	LD50
Exposure route :	Dermal

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Species : Rabbit
Effective dose : > 5000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Inhalation
Species : Rat
Effective dose : = 1910 mg/m³
Exposure time : 3 h

Irritant and corrosive effects

Primary irritation to the skin

Parameter : Primary irritation to the skin (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Result : Slightly irritant

Irritation to eyes

Parameter : Irritation to eyes (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Result : Strongly irritant

Sensitisation

In case of skin contact

Parameter : Skin sensitisation (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Species : Guinea pig
Result : Not sensitising.
Method : OECD 406

In case of inhalation

Parameter : Sensitisation to the respiratory tract (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Species : Guinea pig
Result : Not sensitising.
Method : OECD 406

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Parameter : Carcinogenicity (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Test result : Negative.

Germ cell mutagenicity

In vitro mutagenicity

Parameter : Gene-mutations microorganisms (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Test result : Negative.
Method : OECD 471 (Ames test)

Parameter : Chromosomal aberrations mammalian cells (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)

Exposure route : Genotoxicity
Species : Mouse
Test result : Negative.
Method : OECD 474

Reproductive toxicity

Developmental toxicity/teratogenicity

One generation reproduction toxicity test

Parameter : One generation reproduction toxicity test (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Test result : Negative.

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

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Discharge into the environment must be avoided.

12.1 Toxicity

By analogy:

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50
Species : Brachydanio rerio (Zebrafish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : = 1300 mg/l
Exposure time : 96 h
Parameter : EC50
Species : Daphnia magna (Big water flea)
Effective dose : = 200 mg/l
Exposure time : 24 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Species : Daphnia magna (Big water flea)
Effective dose : = 141,6 mg/l
Exposure time : 48 h

Acute (short-term) algae toxicity

Parameter : IC50 (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Effective dose : = 15,4 mg/l
Exposure time : 96 h
Parameter : IC50 (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Species : Scenedesmus subspicatus
Evaluation parameter : Inhibition of biomass development
Effective dose : 91 - 141 mg/l
Exposure time : 72 h

Bacteria toxicity

Parameter : EC50
Species : Pseudomonas putida
Effective dose : > 1000 mg/l
Exposure time : 3 h

12.2 Persistence and degradability

Biodegradation

Overall evaluation on the mixture: The product is difficult to biologically degrade.

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Concentration : = 2,563
Parameter : Partition coefficient: n-octanol/water (1H-Benzotriazole (1,2,3) ; CAS No. : 95-14-7)
Concentration : = 1,34

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

Endocrine disrupting potential: None known.

12.7 Other adverse effects

This product does not contain nanoparticles.

12.8 Overall evaluation

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If product enters soil, it will be mobile and may contaminate groundwater. In accordance with the required stability the product is poorly biodegradable.

SECTION 13: Disposal considerations

Dispose according to legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. Collect the waste separately. Evidence for disposal must be provided.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

07 06 07 - Halogenated still bottoms and reaction residues. - Contains Fluoropolymers

Waste code packaging

15 01 10 - Packaging containing residues of or contaminated by hazardous substances. - Dispose of completely emptied containers as combustible waste or metal waste depending on the material.

SECTION 14: Transport information

14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

National regulations

Restrictions of occupation

Not relevant

Störfallverordnung

Not subject to StörfallVO.

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

Other regulations, restrictions and prohibition regulations

General Water Assessment Methodology (ABM) of the Netherlands: Slightly harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Part of substances from the ZZS category (Zeer Zorgwekkende)

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Stoffen = Substances of very high concern): None.

Switzerland

VOCV-Regulation

Volatile organic compounds (VOC) content in percent by weight : 0 %

Additional information

TSCA (Toxic Substances Control Act) - USA, United States of America

All chemical substances in this mixture are included on or are exempted from listing on the TSCA Inventory for Chemical Substances.

California Proposition 65 - State of California

Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65.

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

13. Waste codes/waste designations according to EWC/AVV · 15. National regulations

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

Includes supplements in accordance with Regulation (EU) 2020/878 of June 18, 2020

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The statement is derived from the properties of the single components.

16.5 Relevant H- and EUH-phrases (Number and full text)

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

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.