

SAFETY DATA SHEET

according to 453/2010 EC and 1907/2006 EC



THERMOCUP 1200 Anti-seize compound

Revision: 15.10.2024.

Version number: 04

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: THERMOCUP 1200 Anti-seize compound

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

Anti-seize paste

Application sector: For industrial and professional use.

Product category (EuPCS): PC-TEC 11 – Lubricants, greases, release agents

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier: Weckerle AG
Neuhofweg 51, CH-4147 Aesch

Telephone number: +41 61 305 95 55

Further information obtainable from: Produktemanagement
mail@weckerleag.ch
www.weckerleag.ch

1.4. Emergency telephone number:

0-24h: ETTSZ (Egészségügyi Toxikológiai Tájékoztató Szolgálat)
+41 44 251 51 51

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the mixture:

Aquatic Chronic 2 H410 Very toxic to aquatic life with long-lasting effects

2.2. Label elements :

Hazard pictograms:



GHS09

Signal word: None

Hazard-determining components of labelling: Copper

H-phrases:

H410 Very toxic to aquatic life with long-lasting effects

P-phrases:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local regulations.

Additional data: Contains 2,6-di-tert,-butyl-4-nonylphenol and succinic anhydride, products from the oligomerization of propene, hydrolyzed, C12-rich, alkylated with branched chain olefins, esterified with propylene oxide. May cause an allergic reaction.

2.3. Other hazards

The product does not meet the PBT and vPvB criteria of Regulation 1907/2006 (EC) XIII. pursuant to its annex.
The product does not have endocrine disrupting properties according to Regulation (EU) 2017/2100.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components:

	Name:	mass-%	Classification*		
CAS-No: 7440-50-8 EC-No: 231-159-6 Reg.No: 01-2119480154-42	Copper	10 - <15	Aquatic Acute 1 Aquatic Chronic 1 Acute Tox.4 Eye Irrit.2	H400 H410 H302 H319	Particle length: 0,9-6,0 mm width: 0,494-0,949 mm M factor Aquatic Acute =10 Aquatic Chronic =10
CAS-No: 7429-90-5 EC-No: 231-072-3 Reg.No: 01-2119529243-45	Aluminium powder (stabilised)	2,5 - < 5,0	Flam. Sol. 1	H228	
CAS-No: 4306-88-1 EC-No: 224-320-7	2,6-Di-tert,-butyl-4-nonylphenol	≤ 0,5	Aquatic Acute 1 Aquatic Chronic 1 Skin Sens. 1B	H400 H410 H317	M factor Aquatic Acute =1 Aquatic Chronic =1
CAS-No: - EC-No: 270-132-3 Reg.No: 01-2120120363-71	Succinic anhydride, products from the oligomerization of propene, hydrolyzed, C12-rich, alkylated with branched chain olefins, esterified with propylene oxide.	≤ 0,1	Eye Irrit.2 Skin Sens.1B	H319 H317	

* For the wording of the listed risk phrases refer to section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:	In the event of an accident or illness, a doctor must be called immediately. If possible, the label should be shown.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Remove the contaminated, soiled clothes. Immediately wash the skin surface with plenty of water and soap.
After eye contact:	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist.
After ingestion:	Supply fresh air. Rinse the mouth with plenty of water and call for medical help immediately.

4.2. Most important symptoms and effects, both acute and delayed:

No further relevant information available.

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

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: Water spray, extinguishing powder, carbon dioxide.
Fight larger fires with alcohol resistant foam.
Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2. Special hazards arising from the substance or mixture :

In case of fire, smoke and other combustion products may be formed, the inhalation of such combustion products can have serious adverse effects on health.

5.3. Advice for firefighters :

Wear full protective clothing and self-contained breathing apparatus.
The contaminated extinguishing water should be collected separately, do not enter into sewer or watercourses.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Appropriate protective equipment must be worn (chapter 8.2). Keep unprotected people away, allow only well -trained experts wearing suitable protective clothing to abide in the field of accident.

For emergency responders: No special precautions required.

6.2. Environmental precautions: Dispose the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/ soil/ surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

6.3. Methods and material for containment and cleaning up: Collect the spilled mixture mechanically, then placed the collected waste into appropriate, labelled closable hazardous waste container till proper removal/disposal according to item 13.

6.4. Reference to other sections : See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1. Handling:

Technical measures: No special measures required .

Information about fire - and explosion protection: No special measures required.

General protective and hygienic measures: Observe conventional hygiene precautions. Wash hands before breaks and at the end of shift. Take off dirty, soaked clothes immediately. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Keep container tightly closed.

Conditions to avoid : See section 10.5

Incompatible materials: No further relevant information available.

Information about storage in one common storage facility: No special measures required.

7.3 Specific end use(s) : See Technical Data Sheet

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS:	Chemical name	Typ	Limit values (mg/m ³)	Category
7440-50-8	copper	Short-term value	0,2	
		Long-term value	0,1 0,01 (respirable powder)	
7429-90-5	aluminium	Long-term value	1 (respirable powder)	

Recommended biological exposure and effect indicators:

CAS:	Chemical name	Biological exposure (effect) indicator	Sampling time	Creatinine	
				mg/g	µmol/mmol
7429-90-5	aluminium	aluminium	not critical	0,06	0,25

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DNEL:

CAS: 7440-50-8 copper			
Worker	inhalation	long-term, local effects	1 mg/m ³
	dermal	long-term, systemic effects	137 mg/kg
	inhalation	short-term, local effects	1 mg/m ³
	inhalation	short-term, systemic effects	20 mg/m ³
	dermal		273 mg/kg
CAS: 7429-90-5 aluminium			
Worker	inhalation	long-term, local effects	3,72 mg/m ³

PNEC:

CAS-No:		Environmental medium	Value:
7440-50-8	copper	Fresh water	7,8 µg/l
		Freshwater sediment	87 mg/kg
		Sea water	5,2 µg/l
		Seawater sediment	676 mg/kg
		STP	230 µg/l
		Soil	65 mg/kg
7429-90-5	aluminium	Fresh water	0,0749 mg/cm ³
		Air	20 mg/cm ³

8.2. Exposure controls :

Additional information about design of technical facilities:

No further data; see item 7.

Personal protective equipment

a. Eye protection:

Not necessary

b. Skin protection:

Protection of hands:

Solvent-resistant protective gloves (EN 374).
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves :

Recommended material: butyl rubber, material thickness: 0,4 mm.
As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

Penetration time by: acetone: 480 minutes; butyl acetate: 60 minutes; ethyl acetate: 170 minutes; xylene: 42 minutes. As a precaution, we recommend taking the 42-minute resistance as a basis. Longer resistance can be assumed in individual cases. Ask the glove manufacturer about exact penetration times and consider the received details.

Body protection:

Use appropriate work clothing.

c. Respiratory protection:

Not required.

d. Thermal hazard:

No hazard.

Environmental exposure controls:

No specific prescription.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Paste
Colour	Dark grey
Odour:	mild
Odour threshold:	not determined

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Specification	Value	Conditions	Regulations
Melting point/Melting range:	not determined.		
Boiling point/Boiling range:	not applicable.		
Flammability:	moderately flammable		
Explosion limits:	not applicable.	not explosive	
Flash point:	>200°C		
Ignition temperature:	not determined.		
Decomposition temperature:	not determined.		
pH-value:	not applicable.	not miscible with water	
Viscosity, kynematic:	thixotropic paste	20°C	
Solubility in / Miscibility:	not miscible or difficult to mix.	with water, 20°C	
Partition coefficient (log value):	Not determined.	n-octanol/water	
Density:	1,3 g/cm ³	20°C	
Vapour pressure:	not determined.		
Vapour density:	not determined.		
VOC-EU:	0,00%		
Solid content:	>40%		
Particle characteristics:	Particle length: 0,9-6,0 mm width: 0,494-0,949 mm	copper pulver	

9.2. Other information : No further relevant information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity : No further relevant information available.
- 10.2. Chemical stability: Stable under normal conditions of use and storage.
- 10.3. Possibility of hazardous reactions : No hazardous reactions known.
- 10.4. Conditions to be avoided: No further relevant information available
- 10.5. Incompatible materials: No further relevant information available
- 10.6. Hazardous decomposition products: No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:	Based on available data, classification criteria are not met
Skin corrosion/irritation:	Based on available data, classification criteria are not met
Serious eye damage/ irritation:	Based on available data, classification criteria are not met
Respiratory or skin sensitization:	Based on available data, classification criteria are not met
Mutagenicity:	Based on available data, classification criteria are not met
Carcinogenicity:	Based on available data, classification criteria are not met
Reproductive toxicity:	Based on available data, classification criteria are not met
Specific Target Organ Toxicity – Single Exposure: (STOT SE):	Based on available data, classification criteria are not met
Specific Target Organ Toxicity – Repeat Exposure: (STOT RE):	Based on available data, classification criteria are not met
Aspiration Hazard:	Based on available data, classification criteria are not met

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Relevant toxicological information: No data are available for the mixture.
Details of the ingredients:

CAS: 7440-50-8 copper			
Oral:	LD50	250 mg/kg	rat
Dermal:	LD50	>2000 mg/kg	rat
Inhalation:	LC50/4h	5,11 mg/m ³	rat
CAS: 7429-90-5 Aluminium powder			
Oral:	LD50	15900 mg/kg	rat
CAS: 4306-88-1 2,6-Di-tert,-butyl-4- nonylphenol			
Oral:	LD50	>2000 mg/kg	rat (OECD 401)
Dermal:	LD50	>2000 mg/kg	rat (OECD 402)

Information for a probable exposure routes:

Ingestion, skin contact, eye contact.

Symptoms related to physical, chemical and toxicological characteristics:

No data are available

Delayed and immediate effects from short and long term exposure, as well as chronic effects:

Contains 2,6-di-tert,-butyl-4-nonylphenol and succinic anhydride, products from the oligomerization of propene, hydrolyzed, C12-rich, alkylated with branched chain olefins, esterified with propylene oxide. May cause an allergic reaction.

Effects from interactions:

No data are available

Absence of specific data:

No information

11.2. Additional toxicological information:

Endocrine disrupting properties:

The product does not have endocrine disrupting properties according to Regulation (EU) 2017/2100.

Other informations:

No further relevant information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity :

Aquatic toxicity:

Very toxic to aquatic life with long-lasting effects

Details of the ingredients:

CAS: 4306-88-1 2,6-Di-tert,-butyl-4- nonylphenol			
Acute fish toxicity	LC50 / 96 h	>10 mg/l	Oncorhynchus mykiss
Acute crustacea toxicity	EC50 / 48h	0,124 mg/l	Daphnia magna
Acute algae toxicity	EC50/ 72h	>100 mg/l	Pseudokirchneriella subcap.
Succinic anhydride, products from the oligomerization of propene, hydrolyzed, C12-rich, alkylated with branched chain olefins, esterified with propylene oxide.			
Acute fish toxicity	LC50 / 96 h	>100 mg/l	Oncorhynchus mykiss
Acute crustacea toxicity	EC50 / 48h	>100 mg/l	Daphnia magna
Acute algae toxicity	LC50/ 72h	>100 mg/l	Pseudokirchneriella subcap.

12.2. Persistence and degradability :

No further relevant information available.

12.3. Bioaccumulative potential :

No further relevant information available.

12.4. Mobility in soil:

No further relevant information available.

Additional ecological information:

Water hazard class 3 (Self-assessment): highly dangerous for waters. Even small quantities must not be released into groundwater, environmental waters or sewers. Even the smallest amount entering the subsoil endangers the drinking water balance. In waters, it is toxic to fish, plankton and aquatic organisms.

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- 12.5. Results of PBT and vPvB assessment: This mixture contains no ingredients assessed as PBT or vPvB substances
- 12.6. Endocrine disrupting properties: The product does not have endocrine disrupting properties for non-target organisms, as it does not meet the criteria defined in section B of Regulation (EU) 2017/2100.
- 12.7. Other adverse effects: No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods : Disposal according to the local regulations.
Recommendation : Do not dispose together with household waste. Do not empty into drains. Dispose of in accordance with applicable regulations at an approved waste treatment plant. Handle as hazardous waste.
- European waste catalogue (EWC): 12 01 12* – spent waxes and fats
Uncleaned packaging
Recommendation : Disposal must be made according to official regulations.
European waste catalogue (EWC): 15 01 10* - packaging containing residues of or contaminated by hazardous substances

SECTION 14: TRANSPORT INFORMATION

- 14.1. UN-number (ADR, RID, IMDG, IATA): None
- 14.2. UN proper shipping name :
ADR, RID, IMDG, IATA None
- 14.3. Transport hazard class(es) :
ADR, RID, IMDG, IATA
Class: None
- 14.4. Packing group (ADR, RID, IMDG, IATA): None
- 14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: Yes
- 14.6. Special precautions for user : Not applicable.
- 14.7. Transport in bulk according to IMO rules: Not applicable.
- 14.8. Transport/Additional information: The product is not classified as dangerous goods.

SECTION 15: REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
The relevant more important EU legislation
1907/2006/EC, 1272/2008/EC, 2020/878/EU, 1999/45/EC, 1272/2008 EC
Directive 2012/18/EU
·REACH Chapter 59: List of substances of very high concern: Not applicable.
Regulation 2019/1021 (EU) on persistent organic pollutants: Not applicable.
Regulation 1907/2006/EC XVII. ANNEX: Restrictions on the production, distribution and use of certain dangerous substances, preparations and products: The following restriction conditions must be taken into account (list 3): 40. Aluminum powder, stabilized
Directive 2011/65/EC: Use of specified hazardous substances limitation in electrical and electronic equipment: does not contain such a component
- 15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: OTHER INFORMATION

Changes in the safety data sheet: In chapters 1.1, 2.2, 2.3, 3.2, 4.1, 4.3, 5.1, 6.1, 8.1, 8.2, 9.1, 10.2, 11.1, 12.1, 12.4, 12.6, 14.7, 15.1, and 16.

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
ICAO: International Civil Aviation Organisation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
DNEL: Derived no effect level
PNEC: Predicted no effect concentration
Flam.Sol.1: Flammable solids – Hazard Category 1
Acute Tox.4: Acute toxicity – Hazard Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Hazard Category 2
Skin Sens 1B: Sensitisation – Skin - Hazard Category 1B
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - chronic -hazard -Category 1

Literature references and data sources:

Information provided by original data sheet 22.05.2023. and suppliers (Composition, physico-chemical properties, component safety data sheets, handling and storage information)

Methods used for classification: Aquatic Chronic 1 H410 based on a calculation method

Relevant phrases :

- H228 Flammable solid.
- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long-lasting effects

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.