

according to Commission Regulation (EU) 2020/878 as amended

# **Smar miedziany**

Creation date 25th February 2023

Revision date Version 6.0

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

1.1. Product identifier Smar miedziany

Substance / mixture mixture

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

Mixture's intended use

Lubricating agent.

## Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

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

Distributor

Name or trade name Transfer Multisort Elektronik Ltd.

Address Birmingham Coleshill House Suite 1C, 1 Station Road,

Coleshill

Phone United Kingdom +44 1675790026 E-mail office@tme-uk.eu

Manufacturer

Name or trade name AG TermoPasty Grzegorz Gąsowski Address Kolejowa 33 E, Sokoły, 18-218

Poland

 Identification number (CRN)
 200133730

 VAT Reg No
 PL9661767714

 Phone
 862741342

E-mail biuro@termopasty.pl Web address www.termopasty.pl

Competent person responsible for the safety data sheet

Name AG TermoPasty Grzegorz Gąsowski

E-mail biuro@termopasty.pl

1.4. Emergency telephone number

European emergency number: 112

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H229, H222 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

### Most serious adverse physico-chemical effects

Extremely flammable aerosol. Pressurised container: May burst if heated.

# Most serious adverse effects on human health and the environment

May cause damage to organs through prolonged or repeated exposure. Suspected of damaging fertility. Harmful to aquatic life with long lasting effects.



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## 2.2. Label elements

# Hazard pictogram





### Signal word

Danger

## **Hazardous substances**

n-hexane

## **Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe gas.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

#### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

### **Chemical characterization**

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	propane		Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	butane		Flam. Gas 1, H220 Press. Gas (compressed gas), H280	



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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-037-00-0 CAS: 110-54-3 EC: 203-777-6 Registration number: 01-2119474209-33- XXXX	n-hexane	3-15	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 2, H411 Specific concentration limit: STOT RE 2, H373: $C \ge 5$ %	1
	Copper flakes	0,75-1,5	Acute Tox. 4, H302 Eye Irrit. 2, H319 Acute Tox. 3, H331 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Index: 601-017-00-1 CAS: 110-82-7 EC: 203-806-2	cyclohexane	<0,75	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	1, 2

#### **Notes**

- 1 A substance for which exposure limits are set.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

## If swallowed

Unlikely.

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

#### If inhaled

Cough, headache.

# If on skin

Not expected.

#### If in eyes

When intruding eyes, it can evoke irritation.

### If swallowed

Irritation, nausea.

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

Symptomatic treatment.



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#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

#### **SECTION 6: Accidental release measures**

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

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale gases and vapours.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Ventilate the room. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale gases and vapours. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

#### 7.3. Specific end use(s)

not available

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

# **European Union**

# Commission Directive 2006/15/EC

Substance name (component)	Туре	Value
n hevene (CAC, 110 E4 2)	OEL 8 hours	72 mg/m <sup>3</sup>
n-hexane (CAS: 110-54-3)	OEL 8 hours	20 ppm
cyclobovano (CAS) 110 92 7)	OEL 8 hours	700 mg/m <sup>3</sup>
cyclohexane (CAS: 110-82-7)	OEL 8 hours	200 ppm



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#### **PNEC**

#### Copper flakes

Route of exposure	Value	Value determination	Source
Drinking water	7.8 μg/l		
Freshwater sediment	87 mg/kg		
Marine water	5.2 μg/l		
Soil (agricultural)	65.6 mg/kg		
Microorganisms in sewage treatment	0.23 mg/l		

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

It is not needed.

#### Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### Thermal hazard

Not available.

#### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state gas
Colour orange

Odour without fragrance
Melting point/freezing point data not available
Boiling point or initial boiling point and boiling range data not available

Flammability Extremely flammable aerosol.

Lower and upper explosion limit data not available Flash point data not available Auto-ignition temperature data not available Decomposition temperature data not available data not available data not available Kinematic viscosity Solubility in water data not available Solubility in fats data not available Partition coefficient n-octanol/water (log value) data not available Vapour pressure data not available Density and/or relative density data not available Relative vapour density data not available Particle characteristics data not available

### 9.2. Other information

Evaporation rate non-applicable

Appearance spray

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

not available



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#### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

#### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Pressurised container: May burst if heated.

# 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

# 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

#### **SECTION 11: Toxicological information**

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

No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

#### Copper flakes

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50	OECD 423	500 mg/kg		Rat	
Dermal	LD50	OECD 402	>2000 mg/kg		Rat	
Inhalation	LC50	OECD 403	0.7 mg/l	4 hours	Rat	

#### cyclohexane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		12 g/kg		Rat (Rattus norvegicus)	
Dermal	LD50		>18 g/kg		Rabbit	

## n-hexane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		28700 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>		3295 mg/kg		Rabbit	

### Skin corrosion/irritation

Based on available data the classification criteria are not met.

# Serious eye damage/irritation

Based on available data the classification criteria are not met.

# Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

# Germ cell mutagenicity

Based on available data the classification criteria are not met.

# Carcinogenicity

Based on available data the classification criteria are not met.

## Reproductive toxicity

Suspected of damaging fertility.

# Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### **Aspiration hazard**

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.



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#### 11.2. Information on other hazards

not available

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

#### **Acute toxicity**

Harmful to aquatic life with long lasting effects.

n-hexane

Parameter	Value	Exposure time	Species	Environment
LC50	3900 mg/ml	48 hours	Invertebrates (Daphnia magna)	
NOEL	30000 mg/ml	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	
LC50	>1000 µg/l	48 hours	Fish	

#### 12.2. Persistence and degradability

Not available.

## 12.3. Bioaccumulative potential

Not available.

#### 12.4. Mobility in soil

Not available.

## 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

#### 12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## 12.7. Other adverse effects

Not available.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Packaging waste type code

15 01 11 metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers \*

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

# **SECTION 14: Transport information**

#### 14.1. UN number or ID number

UN 1950

### 14.2. UN proper shipping name

**AEROSOLS** 



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#### 14.3. Transport hazard class(es)

2 Gases

# 14.4. Packing group

not relevant

#### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

## 14.7. Maritime transport in bulk according to IMO instruments

not relevant

#### **Additional information**

Hazard identification No. UN number Classification code Safety signs



5F 2.1



### Air transport - ICAO/IATA

Packaging instructions passenger 203 Cargo packaging instructions 203

### Marine transport - IMDG

EmS (emergency plan) F-D, S-U MFAG 620

# **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended.

# Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

cyclohexane

Restriction	Conditions of restriction
57	1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of neoprene-based contact adhesives in concentrations equal to or greater than 0,1 % by weight in package sizes greater than 350 g.
	2. Neoprene-based contact adhesives containing cyclohexane and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.
	3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact
	adhesives containing cyclohexane in concentrations equal to or greater than 0,1 % by weight that are placed on the market for supply to the general public after 27 December 2010 are visibly, legibly and indelibly marked as follows:
	"— This product is not to be used under conditions of poor ventilation.  — This product is not to be used for carpet laying.".



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### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

#### **SECTION 16: Other information**

	A list of standard risk	phrases used in the	safety data sheet
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H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness. H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

#### Guidelines for safe handling used in the safety data sheet

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe gas.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

# Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1.

# Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by

road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substance and mixtures

EC Identification code for each substance listed in EINECS

EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

EuPCS European Product Categorisation System IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying

Dangerous Chemicals

ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization



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IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal concentration of a substance in which it can be expected death of 50% of the

population

LD50 Lethal dose of a substance in which it can be expected death of 50% of the

population

log Kow Octanol-water partition coefficient

NOEL No observed effect level
OEL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic

ppm Parts per million

Press. Gas (Comp.)

Gas under pressure: compressed gas

Press. Gas (Diss.)

Gas under pressure: dissolved gas

Press. Gas (Liq.)

Gas under pressure: liquefied gas

Press. Gas (Ref. Liq.) Gas under pressure: refrigerated liquefied gas

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN

Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or

biological materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity
Aerosol Aerosol

Aquatic Acute Hazardous to the aquatic environment

Aquatic Chronic Hazardous to the aquatic environment (chronic)

Asp. Tox.

Eye Irrit.

Flam. Gas

Flammable gas

Flam. Liq.

Press. Gas

Repr.

Skin Irrit.

Aspiration hazard

Eye irritation

Flammable gas

Flammable liquid

Gases under pressure

Reproductive toxicity

Skin irritation

STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure

#### **Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### **Recommended restrictions of use**

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

## The changes (which information has been added, deleted or modified)

The version 6.0 replaces the SDS version from 30 January 2023. Changes were made in sections 2, 15 and 16.

## Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.