

Safety Data Sheet

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **Gleitlack mit Grafit**

Print date: 22.03.2019

Revision date: 22.03.2019



Version 1.1

replaces version 1.0

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

- 1.1 Product identifier **Gleitlack mit Grafit**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Identified uses Anti-friction coating – only for industrial use.
- 1.3 Supplier Rudolf Hirner, technische Produkte e.U.
Kleinreifling 24a
A-4464 Weyer
T, F: +43-7357-20812
Email: info@molytrop.at
- Competent person Rudolf Hirner (CEO)
Email: info@molytrop.at
- 1.4 Emergency telephone number +43-7357-20812
Available during office hours
Mo-Fr 8 a.m. – 12 a.m.
- Please contact the regional poison center or emergency call.
- Austrian toxicity information center Vienna:**
+43 1 406 43 43
Available 24 hours

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
-  According to regulation (EC) No. 1272/2008
- Flammable liquid, category 3
Hazardous to the aquatic environment – chronic hazard, category 4
- H226 Flammable liquid and vapour.
H413 May cause long lasting harmful effects to aquatic life.
- 2.2 Label elements
-  According to regulation (EC) No. 1272/2008



Warning

- H226 Flammable liquid and vapour.
H413 May cause long lasting harmful effects to aquatic life.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing vapours.

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- P280 Wear protective gloves.
 P303 + P361 + P353 IF ON SKIN (or hair); Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P501 Dispose of contents/container to hazardous waste collection point.
 EUH066 Repeated exposure may cause skin dryness or cracking.

 Hazard components for labelling

Not applicable.

2.3 Other hazards

None known.



SECTION 3: Composition/information on ingredients

3.2 Mixtures

 Chemical characterization

Alkyd resin containing graphite.

 Hazardous ingredients

name	CAS # / EC # / Index #	% (w/w)	Classification acc. to (EC) No. 1272/2008*	
Natural graphite** (CAS: natural occurring substances) Reference# acc. to REACH: Not required in sense of Annex V.7	999999-99-4 / 310-127-6 / ---	20 - 30	---	---
Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics Registrierungs# gem. REACH: 01-2119471991-29-xxxx	65072-03-9 / 923-037-2 / ---	15 - 25	Flam. Liq. 3 Asp. Tox. 1 Aqu. chron. 4	H226 H304 H413 EUH066
Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics Reference# acc. to REACH: 01-2119472146-39-xxxx	246538-76-1 / 918-167-1 / ---	10 - 20	Flam. Liq. 3 Asp. Tox. 1 Aqu. chron. 4	H226 H304 H413 EUH066
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Reference# acc. to REACH: 01-2119457273-39-xxxx	1174522-09-8 / 918-481-9 / ---	1 - 5	Asp. Tox. 1	H304 EUH066
2-ethylhexanoic acid, zirconium salt** Reference# acc. to REACH: 01-2119979088-21-xxxx	22464-99-9 / 245-018-1 / ---	< 0,5	Repr. 2	H361

* Full text of hazard statements and hazard categories: see section 16.

** Substance with an occupational exposure limit value (see section 8)

SECTION 4: First aid measures

4.1 Description of first aid measures

Seek medical advice if symptoms occur.

Never give anything by mouth to an unconscious person or a person with cramps.

Change contaminated, saturated clothing immediately.

 In case of inhalation

In case of problems, provide fresh air. Consult a physician immediately.


If unconscious, place and transport in recovery position.

 In case of skin contact


After contact with skin, wash with soap and plenty of water.

Change contaminated, saturated clothing – wash before reuse.

If symptoms occur, consult a physician.

 In case of eye contact

In case of contact with eyes, remove contact lens and flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Get medical advice.

 In case of ingestion

Rinse mouth thoroughly with cold water. Do not induce vomiting. If the patient is fully conscious, give plenty of water to drink. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Possible symptoms: headaches, drowsiness, dizziness and irritation of eyes and skin.

4.3 Indication of any immediate medical attention and special treatment needed

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

SECTION 5: Firefighting measures

5.1 Extinguishing media

 Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, extinguishing powder, Water spray

 Extinguishing media which must not be used for safety reasons

Waterjet

5.2 Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhalation of hazardous decomposition products can cause serious injuries to health.

5.3 Advice for firefighters

Special protective equipment:

Wear a self-contained breathing apparatus and chemical protective clothing.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Observe the member state specific regulations.

MAK (maximum workplace concentrations)-value (valid for A acc. to GKV 2018 Annex 1)

name	CAS#		TMW / KZW*		notes	duration
			[ppm]	[mg/m ³]		
Graphit	7782-42-5	MAK		5 A / 10 A		2x60(Miw)
Zirconium compounds (calculated as Zr)		MAK		5 E / -		

Observe MAK-values for hydrocarbon vapours acc. to §6.

*TMW Daily average value
E Breathable fraction
A Alveolar fraction
KZW Short-time value
Miw instantaneous value

Occupational limit value (valid for D acc. to TRGS 900 Jan. 2006) - last amended 2018

name	CAS#	value		Top limiting	notes*
		[ppm]	[mg/m ³]	Exceedance factor	
C9-C15 aliphates	---		300		
RCP-methode			300	2 (II)	
Zirconium and insoluble compounds			1 E	1 (I)	10, DFG, Sah

10 limit value refers to the content of the element in the corresponding metal.
DFG German Research Foundation
Sah sensitizing to skin an respiratory tract


DNEL- values (derived no-effect level)

No data available.

PNEC- values (predicted no-effect concentration)

No data available.

8.2 Exposure control

 General protection and hygiene measures

When handling with chemical substances observe usual precautionary measures.
Keep away from foods and drinks.
When using do not eat, drink, smoke.
Wash hands after working with product.
Avoid contact with skin and eyes.
Avoid breathing vapours/aerosols. Change contaminated clothing and wash before reuse.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

▲ Respiratory protection

During formation of vapours/aerosols and/or if ventilation is insufficient, wear respiratory protection.

▲ Hand protection

Wear protective gloves (Glove material e. g. nitril rubber)

The selection of suitable gloves depends not only on the material, but also on other quality characteristics. Breakthrough times and swelling properties of the material must be taken into consideration.

▲ Eye protection

Protective goggles

▲ Body protection

Protective working clothes.

▲ Environmental exposure controls

Do not allow to enter into sewer system/surface water/ground water.

In case of entry into rivers, lakes or drains inform the responsible authorities.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

▲ Physical state / Appearance	liquid
▲ Colour	black
▲ Odour	solvent
▲ Odour threshold	No information available.
▲ pH value	n. a.
▲ Melting point/range	No information available.
▲ Boiling point/range	150 – 220 °C
▲ Flash point	41 °C
▲ Evaporation rate	No information available.
▲ Flammability (solid, gas)	n. a.
▲ Upper/lower explosive limits	7 Vol-% / 0.6 Vol-%
▲ Vapour pressure (27 °C)	6 hPa
▲ Density (20 °C)	1.05 g/cm ³
▲ Solubility in water (20 °C)	insoluble
▲ Partition coefficient: n-octanol/water;	No information available.
▲ Auto-ignition temperature	No information available.

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-  Decomposition temperature No information available.
-  Viscosity > 20,5 mm²/s
-  Explosion properties The product itself is not explosive. Vapours may form explosive mixtures with air.
-  Oxidising properties No information available.

9.2 Other information

-  VOC Max. 400 g/l



SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions known if stored and used as prescribed.

10.2 Chemical stability

Stable if stored and used as prescribed. Storage period in closed container: max. 6 months.

10.3 Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

10.4 Conditions to avoid

Protect from frost, heat and direct sunlight.

10.5 Incompatible materials

Strong acids, alkalis and oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products known if stored and used as prescribed.



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological data for the product are not available.

-  LD₅₀ values of single components relevant for classification

name	CAS-No	
Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics	65072-03-9	LD ₅₀ (oral/rat) > 5000 mg/kg LD ₅₀ (dermal/rabbit) > 5000 mg/kg LC ₅₀ (inhalation/rat/8 h) > 5000 mg/kg
Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	246538-76-1	LD ₅₀ (oral/rat) > 5000 mg/kg LD ₅₀ (dermal/rabbit) > 5000 mg/kg LC ₅₀ (inhalation/rat/8 h) > 5000 mg/kg
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	1174522-09-8	LD ₅₀ (oral/rat) > 5000 mg/kg LD ₅₀ (dermal/rabbit) > 5000 mg/kg LC ₅₀ (inhalation/rat /4 h) > 4,951 mg/kg

-  Acute toxicity

Based on available data classification criteria are not fulfilled.

ATE_{mix} (oral, calculated) > 2000 mg/kg

 Skin corrosion/irritation

Based on available data classification criteria are not fulfilled.
Repeated exposure may cause skin dryness or cracking.

 Serious eye damage/irritation

Based on available data classification criteria are not fulfilled.
Slight short-term eye irritation is possible.

 Skin/Respiratory sensitization

Based on available data classification criteria are not fulfilled.

 Germ cell mutagenicity

The product does not contain any ingredients in a concentration equal or higher than 0.1 %, which are classified as mutagenic.

Based on available data classification criteria are not fulfilled.


 Cancerogenicity

None of the substances in a concentration equal or higher than 0.1 % in this product is listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

 Reproductive toxicity

The product contains below 0.5 % 2-ethylhexanoic acid, zirconium salt (CAS: 22464-99-9), which is classified as toxic for reproduction category 2.

Based on available data classification criteria for the mixture are not fulfilled.

 Specific target organ toxicity – single exposure

Based on available data classification criteria are not fulfilled.

Inhalation of vapours above the limit values may cause harmful effects like irritation of mucous membrane and respiratory tract, kidney and liver damage and impairment of the central nervous system.

Indications: headaches, dizziness, fatigue, muscle weakness, anaesthetic property and in exceptional cases unconsciousness.

 Specific target organ toxicity – repeated exposure

Based on available data classification criteria are not fulfilled.

Longer or repeated contact with the product reduces the natural fat of the skin and results in skin dryness. The product may be absorbed through the skin.

 Aspiration hazard

The product contains ingredients presenting an aspiration hazard. Based on the high viscosity classification criteria are not fulfilled.

 Other information

The product was classified on the basis of the calculation procedure of the CLP- Regulation (EC) 1272/2008 Annex I.



SECTION 12: Ecological information

12.1 Toxicity

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Ecotoxicological data for the product are not available.

The product was classified on the basis of the calculation procedure of the CLP- Regulation (EC) 1272/2008.

Hazardous to the aquatic environment category 3: Harmful to aquatic life with longlasting effects.

 Aquatic Toxicity of ingredients

Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics

NOELR (72 h): 1000 mg/l – Pseudokirchneriella subcapitata

ELO (72 h): 1000 mg/l – Pseudokirchneriella subcapitata

NOELR (21 d) < 1 mg/l – Daphnia magna

ELO (48 h): 1000 mg/l – Daphnia magna

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

NOELR (72 h): 1000 mg/l – Pseudokirchneriella subcapitata

ELO (72 h): 1000 mg/l – Pseudokirchneriella subcapitata

NOELR (21 d) > 1 mg/l – Daphnia magna

ELO (48 h): 1000 mg/l – Daphnia magna

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

ELO (72 h): 1000 mg/l – Pseudokirchneriella subcapitata

ELO (48 h): 1000 mg/l – Daphnia magna

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available for this product.

12.5 Results of PBT and vPvB assessment

The product does not contain any relevant quantities of substances which are assessed as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB),

12.6 Other adverse effects

Do not allow to enter into sewer system/surface water/ground water.

May cause long lasting harmful effects to aquatic life.



SECTION 13: Disposal considerations

13.1 Waste treatment methods

Any disposal practice must be in compliance with all local and national laws and regulations. Customers are advised to check their local legislation governing the disposal of waste materials. If this preparation becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code. Use only authorized contractors.

 European Waste Catalogue

08 01 11* (waste paint and varnish containing organic solvents or other dangerous substances)

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Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

 Uncleaned packaging

Recommendation: completely emptied packages can be recycled by authorized contractors.



SECTION 14: Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

ADR/RID/IMDG: PAINT

14.3 Transport hazard class(es)

3



14.4 Packing group

III

14.5 Environmental hazards

None.

14.6 Special precautions for user

None.

EmS: F-E, S-E

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

Not relevant.



SECTION 15: Regulatory information

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

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

The mixture was classified on the basis of the calculation procedure of the CLP- Regulation (EC) 1272/2008 (Annex 1).

national law:

Austria:

 VbF – Regulation on combustible liquids (BGBl 1991/240)
Combustible liquid, hazard class A II

Germany:

 Water hazard class acc. to AwSV of 18.04.2018
WGK 1 (slightly hazardous to water)

15.2 Chemical safety assessment

Chemical safety assessment has not been carried out for the mixture.



SECTION 16: Other information

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

All materials may present unknown hazards and should be used with caution and only for identified uses described in Section 1. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. No liability can be accepted for damage during handling or contact with the product. The mixture was classified on the basis of the calculation procedure of the CLP- Regulation (EC) 1272/2008 (Annex 1). The classification of ingredients is based on manufacturer´s data and CLP Regulation Annex VI completed by data of the European Chemical Agency (ECHA).



Relevant hazard statements

EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H361	Suspected of damaging fertility or the unborn child.
H413	May cause long lasting harmful effects to aquatic life.



Relevant hazard categories

Aqu. Chron. 4	Hazardous to the aquatic environment –chronic hazard, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Toxic for reproduction, category 2



Version

Version No. 1.1 replaces V1.0 of 02.03.2017
Update: 2, 3, 8.1, 11.1, 12
Translation of German version 1.1



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Abbreviations

n.a. Not applicable.

