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

1.1 Product identifier

Grafen Professional Copper Grease

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

High-temperature, fast-drying copper grease. Reduces friction of metal elements, prevents rubbing and creaking. Protects against corrosion of screws, nuts, bearings. Resistant to water and atmospheric conditions. Improves the tightness of threaded joints.

Relevant identified uses:

Uses advised against: No further relevant information available.

1.3 Details of the supplier of the safety data sheet:

Supplier:	Madejski Sp. J.
Street address:	Makuszyńskiego 28
Country/Postcode:	Poland, 31-752 Kraków
Telephone number:	+48 (12) 643 67 67
E-mail:	info@madejski.com.pl

1.4 Emergency telephone number:

112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Mixture:

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

Classification of the mixture	Regulation (EC) No 1272/2008 (CLP)
Hazard	
Physical and chemical properties	Aerosol1 H222, H229
Human	Skin Irrit.2 H315 STOT SE.3 H336 Repr.2 H361f STOT RE.2 H373
Environment	Aquatic Chronic 2 H411

2.2 Label elements

Contains n-Hexane, acetone.

Supplemental information on the label:


Not applicable

Hazard pictograms:



Signal word:

DANGER

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Hazard statements:

- H222** Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure
H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

- P102** Keep out of reach of children
P201 Obtain special instructions before use
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.
P261 Avoid breathing dust/fume/gas/mist/vapours/ spray.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water with soap.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P405 Store locked up.
P410 + P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/container to in accordance with local/ regional/national/international regulation.

2.3 Other hazards


This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances: Not applicable

3.2 Mixtures:

Name	Identifiers	[% weight]	Classification according to Regulation (EC) No 1278/2008 (CLP)
n-Hexane	Index No: 601-037-00-0 EC No: 203-777-6 CAS No: 110-54-3 REACH Registration No:-	25-40	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
Lubricating oils	Index No: 649-484-00-0 EC No: 278-012-2 CAS No: 74869-22-0 REACH Registration No:-	>50	Carc.1B H350 (note L)
Propane	Index No: 601-003-00-5 EC No: 200-827-9 CAS No: 74-98-6 REACH Registration No:-	5-15	Flam. Gas.1 H220 Press Gas
Isobutane	Index No: 601-004-00-0 EC No: 200-857-2 CAS No: 75-28-5 REACH Registration No:-	5-15	Flam. Gas.1 H220 Press Gas
Butane	Index No: 601-004-00-0	5-15	Flam. Gas.1 H220

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	EC No: 203-448-7 CAS No: 106-97-8 REACH Registration No:-		Press Gas
Acetone	Index No: 606-001-00-8 EC No: 200-662-2 CAS No: 67-64-1 REACH Registration No:-	1-5	Flam. Liq.2 H225 Eye Irrit.2 H319 STOT SE.3 H336

Specific Concentration Limits for CAS 110-54-3

STOT RE 2; H373: C ≥ 5 %

Note L - 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.

The Full Text for all H-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Following eye contact: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 10 minutes and get medical attention if symptoms occur after washing.

Following inhalation: Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

Following skin contact: Immediately remove contaminated clothing. Wash the skin with soap and water. Contaminated clothing should be washed before re-use. Get medical attention promptly if symptoms occur after washing.

Following ingestion: Do not induce vomiting. Immediately rinse mouth. Never give anything by mouth to an unconscious person. Seek medical advice. Provide ventilation.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:

A single exposure may cause headache, nausea, vomiting, drowsiness, dizziness, narcotic effect.

Skin:

May cause skin irritation, redness.

Eye:

May be irritating to eyes. May cause discomfort.

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

If any symptoms persist seek medical advice and show the msds or label.

Notes for the doctor: Treat symptomatically.

SECTION 5: Firefighting measures


5.1 Extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray

Unsuitable extinguishing media: do not use water in a jet

5.2 Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up. Thermal decomposition or combustion may liberate carbon oxides.

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5.3 Advice for firefighters

Special Fire Fighting Procedures: Wear full protective clothing and self-contained breathing apparatus.

Protective equipment for fire-fighters: Keep containers cool by spraying with water. If possible remove containers from the danger zone. Prevent from spreading or entering drains, ditches or rivers. Dispose of released and contained material in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Removed from the danger area all persons not involved in the emergency. If necessary, order the evacuation. Avoid contact with skin, eyes. Avoid inhalation of vapours / aerosols. Provide ventilation.

For emergency responders:

Wear protective clothing as described in Section 8.

6.2 Environmental precautions

Do not discharge into drains, water courses or into the ground. Local authorities should be advised if any exposure to the environment occurs.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (eg. sawdust, sand). Collect in a waste container. Dispose of waste according to the applicable local and national regulation. Flush contaminated area with plenty of water.

6.4 Reference to other sections

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures:

Avoid breathing vapour or aerosol. Avoid contact with eyes, skin. When handling, use appropriate personal protective equipment (see Section 8). Keep away from heat, sparks, flame and all other sources of ignition. Do not pierce or burn, even after use. Do not smoke! When using do not eat or drink. Avoid direct contact with the product.

Advice on general occupational hygiene:

Ensure good ventilation / exhaustion at the workplace. When using do not eat, drink or smoke. Wash hand before and after work with product. Contaminated clothing should be washed before re-use. Avoid spillage.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place (in temperature below 50°C). Keep containers upright. Containers should be protected from overheating. Keep away from heat, sparks, sunlight, open flame and smoking. Do not store together with combustible materials. Keep away from oxidising materials.

7.3 Specific end use(s)


No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

International Limits Values:

Substance	CAS No:	Basis / Country	Short Time Value [mg/m ³]	Short Time Value [ppm-Calculated]	Time Weighted Average Exposure Limit	Time Weighted Average Exposure Limit

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					[mg/m ³ -8 h]	[ppm-Calculated]
n-Hexane	110-54-3	Germany European Union	1440(1) -	400(1) -	180 72	50 20
Acetone	67-64-1	Germany European Union	2400(1) -	1000(1) -	1200 1210	500 500
Isobutane	75-28-5	Germany European Union	9600 -	4000 -	2400 -	1000 -
Propane	74-98-6	Germany European Union	7200 -	4000 -	1800 -	1000 -
Butane	106-97-8	Germany European Union	9600 -	4000 -	2400 -	1000 -

(1) 15 minutes average value

DNEL n-Hexane

Local effects:

Route of exposure	WORKERS		CONSUMERS	
	Short term exposure	Long term exposure	Short term exposure	Long term exposure
Oral	No data available	No data available	No data available	No data available
Inhalation	No data available	No data available	No data available	No data available
Dermal	No data available	No data available	No data available	No data available

Systemic effects:

Route of exposure	WORKERS		CONSUMERS	
	Short term exposure	Long term exposure	Short term exposure	Long term exposure
Oral	No data available	No data available	No data available	4 mg/kg bw/day
Inhalation	No data available	75 mg/m ³	No data available	16 mg/m ³
Dermal	No data available	11 mg/kg bw/day	No data available	5.3 mg/kg bw/day

PNEC n-Hexane – No data available


DNEL Lubricating oils

Local effects:

Route of exposure	WORKERS		CONSUMERS	
	Short term exposure	Long term exposure	Route of exposure	Short term exposure
Oral	No data available	No data available	No data available	No data available
Inhalation	No hazard identified	5.6 mg/m ³	No data available	No data available
Dermal	No hazard identified	high risk (no thresholds)	No data available	No data available

Systemic effects:

Route of exposure	WORKERS		CONSUMERS	
	Short term exposure	Long term exposure	Route of exposure	Short term exposure

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Oral	No data available	No data available	No data available	0.74 mg/kg bw/day
Inhalation	No hazard identified	2.7 mg/m ³	No data available	No data available
Dermal	No hazard identified	1 mg/kg bw/day	No data available	No data available

PNEC Lubricating oils

Environmental protection target	PNEC
Freshwater	No data available
Freshwater sediments	No data available
Marine water	No data available
Marine sediments	No data available
Food chain	9.33 mg/kg food
STP	No data available
Soil (agricultural)	No data available
Air	No hazard identified

DNEL Acetone

Local effects:

Route of exposure	WORKERS		CONSUMERS	
	Short term exposure	Long term exposure	Route of exposure	Short term exposure
Oral	No data available	No data available	low risk (no thresholds)	low risk (no thresholds)
Inhalation	2 420 mg/m ³	low risk (no thresholds)	low risk (no thresholds)	low risk (no thresholds)
Dermal	low risk (no thresholds)	low risk (no thresholds)	low risk (no thresholds)	low risk (no thresholds)

Systemic effects:

Route of exposure	WORKERS		CONSUMERS	
	Short term exposure	Long term exposure	Route of exposure	Short term exposure
Oral	No data available	No data available	low risk (no thresholds)	62 mg/kg bw/day
Inhalation	low risk (no thresholds)	1 210 mg/m ³	low risk (no thresholds)	200 mg/m ³
Dermal	low risk (no thresholds)	186 mg/kg bw/day	low risk (no thresholds)	62 mg/kg bw/day

PNEC Acetone

Environmental protection target	PNEC
Freshwater	10.6 mg/L
Freshwater sediments	30.4 mg/kg sediment dw
Marine water	1.06 mg/L
Marine sediments	3.04 mg/kg sediment dw
Food chain	No data available
STP	100 mg/L
Soil (agricultural)	29.5 mg/kg gsoil dw
Air	No hazard identified

8.2 Exposure controls


Appropriate engineering controls

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Wear approved chemical safety goggles where eye exposure is reasonably probable. Use equipment for eye protection tested and approved under appropriate government standards

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such as EN 166.

Skin protection

Hand protection: Use gloves. Gloves must be inspected prior to use. Recommended gloves:

Material: nitrile rubber

Minimum layer thickness: 0,4 mm

Break through time: ≥480 min

Other: Wear protective clothing. Contaminated clothing should be washed before re-use.

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a face respirator. It is recommended to use respiratory equipment with filter P.

Environmental exposure controls

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour. Do not discharge into drains, water courses or into the ground. Local authorities should be advised if any exposure to the environment occurs.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Aerosol
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available


9.2 Other information:

No data available

SECTION 10: Stability and Reactivity

10.1 Reactivity

Not reactive under normal conditions of storage and use.

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10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

React with oxidizing substances.

10.4 Conditions to avoid

Avoid release to the environment. Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Oxidizing substances

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

n-Hexane

LD50 (rat, oral)	24 mL/kg bw
LD50 (rabbit, dermal)	> 2 000 mg/kg bw
LC50 (rat, inhalation)	> 5 000 ppm exposition time: 24h

Lubricating oils

LD50 (rat, oral)	> 5 000 mg/kg bw
LD50 (rabbit, dermal)	> 5 000 mg/kg bw
LC50 (rat, inhalation)	2.18 mg/L air

Acetone

LD50 (rat, oral)	5 800 mg/kg bw
LD50 (rabbit, dermal)	> 7 426 mg/kg bw
LC50 (rat, inhalation)	55 700 ppm

Isobutane

LD50 (oral)	No data available
LD50 (dermal)	No data available
LC50 (rat, inhalation)	> 800 000 ppm exposition time:15 min

Propane

LD50 (oral)	No data available
LD50 (dermal)	No data available
LC50 (rat, inhalation)	> 800 000 ppm exposition time:15 min

Butane

LD50 (oral)	No data available
LD50 (dermal)	No data available
LC50 (rat, inhalation)	> 800 000 ppm exposition time:15 min

Skin corrosion/irritation

Mixture is classified as an irritating to skin.

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.

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Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Mixture is classified as an suspected of damaging fertility.

STOT-single exposure

Mixture is classified as an may cause drowsiness or dizziness.

STOT-repeated exposure

Mixture is classified as an may cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information

No further relevant information available.

SECTION 12: Ecological information

12.1 Toxicity

No data available for the mixture.

n-Hexane

Fish (<i>Oryzias latipes</i>)	LC50	> 1 000 µg/L	exposition time: 48h
Aquatic invertebrates (<i>Daphnia magna</i>)	LC50	45 mmol/m ³	exposition time: 48h
Algae and bacteria (<i>Chlorella pyrenoidosa</i>)	EC50	2.66 % v/v	exposition time: 10d

Lubricating oils

Fish (<i>Pimephales promelas</i>)	LL50	> 100 mg/L	exposition time: 96h
Aquatic invertebrates (<i>Daphnia magna</i>)	EL50	> 10 000 mg/L	exposition time: 48h
Algae and bacteria (<i>Pseudokirchneriella subcapitata</i>)	NOEL	≥100 mg/L	exposition time: 72h

Acetone

Fish (<i>Pimephales promelas</i>)	LC50	8 120 mg/L	exposition time: 96h
Aquatic invertebrates (<i>Daphnia magna</i>)	LC50	39 000 µL/L	exposition time: 48h
Algae and bacteria (<i>Anabaena</i> sp.)	EC50	4 424 mg/L	exposition time: 14d

Isobutane

Fish	LC50	91.42 mg/L	exposition time: 96h
Aquatic invertebrates (<i>Daphnia</i> sp.)	LC50	69.43 mg/L	exposition time: 48h
Algae and bacteria (Green algae)	EC50	11.89 mg/L	exposition time: 96h

Propane

Fish	LC50	49.9 mg/L	exposition time: 96h
Aquatic invertebrates (<i>Daphnia</i> sp.)	LC50	69.43 mg/L	exposition time: 48h
Algae and bacteria (Green algae)	EC50	16.47 mg/L	exposition time: 96h

Butane

Fish	LC50	147.54 mg/L	exposition time: 96h
Aquatic invertebrates (<i>Daphnia</i> sp.)	LC50	69.43 mg/L	exposition time: 48h
Algae and bacteria (Green algae)	EC50	16.47 mg/L	exposition time: 96h

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.

12.5 Results of PBT and vPvB assessment

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This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

Proposed waste code

16 05 04* gases in pressure containers (including halons) containing hazardous substances

SECTION 14: Transport Information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1. UN number	UN1950	UN1950	UN1950	UN1950
14.2. UN proper shipping name	Aerosols	Aerosols	Aerosols (contains n-hexane)	Aerosols, flamme
14.3. Transport hazard class(es) label	2 2.1	2 2.1	2 2.1	2 2.1
14.4. Packing group	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards	YES	YES	YES	YES
14.6. Special precautions for user	Tunnel restriction code: D	Not applicable	Number EmS: F-D, S-U	Not applicable
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory information

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

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

2014/955/EU: Commission Decision of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council Text with EEA relevance

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information


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

Classification procedure: calculation method

Aerosol 1 H222, H229

Skin Irrit.2 H315

STOT SE.3 H336

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Rep.2 H361f
STOT RE.2 H373
Aquatic Chronic 2 H411

Relevant H-statements (number and full text)

H220 Extremely flammable gas.
 H225 Highly flammable liquid and vapour
 H304 May be fatal if swallowed and enters airways
 H315 Causes skin irritation.
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness.
 H350 May cause cancer
 H361f Suspected of damaging fertility.
 H373 May cause damage to organs through prolonged or repeated exposure
 H411 Toxic to aquatic life with long lasting effects

Additional Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, Information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Product Safety Data Sheet to their own Product Safety Data Sheet.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary –even for the same product between different countries, reflecting the different compliance requirements.