

	Material Safety Data Sheet According to Commission regulation (EU) 2020/878 and article 31 EU REACH Regulation	Revision: 31.01.2017 Update date: 05.10.2023
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Grafen Professional All in One Penetrating Oil

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

Relevant identified uses: Grafen Professional All in one, penetrating oil is a product designed for lubricating, protecting, cleaning and loosening product for general purpose maintenance applications.

Uses advised against: No further relevant information available.

1.3 Details of the supplier of the safety data sheet:

Supplier:

Madejski Spółka Komandytowa

Street address:

Makuszyńskiego 28 Street

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)

Aerosol1 H222; H229 Extremely flammable aerosol. Pressurised container: May burst if heated. (Aerosols, hazard category 1)

Skin Irrit.2 H315 Causes skin irritation. (Skin corrosion/irritation, hazard category 2)

Skin Sens.1 H317 May cause an allergic skin reaction. (Sensitisation — Skin, hazard category 1)

Eye Irrit.2 H319 Causes serious eye irritation. (Serious eye damage/eye irritation, hazard category 2)

STOT SE.3 H336 May cause drowsiness or dizziness. (Specific target organ toxicity — Single exposure, hazard category 3)

Rep.2 H361 Suspected of damaging fertility or the unborn child. (Reproductive toxicity, hazard category 2)

STOT RE.2 H373 May cause damage to organs through prolonged or repeated exposure. (Specific target organ toxicity — Repeated exposure, hazard category 2)

Aquatic Chronic3 H412 Harmful to aquatic life with long lasting effects. (Hazardous to the aquatic environment — Chronic Hazard, hazard category 3)

2.2 Label elements

Contains Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, n-hexane, 4-Isopropenyl-1-Methylcyclohexene.

Hazard pictograms:



Signal word:

DANGER

Hazard statements:

H222; H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

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H373 May cause damage to organs through prolonged or repeated exposure.
 H412 Harmful to aquatic life with long lasting effects

Precautionary statements:

- P102 Keep out of reach of children.
- 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 dust/fume/gas/mist/vapours/ spray.
- 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.
- P308+P313 IF exposed or concerned: Get medical advice/ attention.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P391 Collect spillage.
- P410+P412 Protect from sunlight. Do not 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

The mixture does not contain substances meeting the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation in a concentration $\geq 0.1\%$ w/w.
 The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

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).
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Index No: - EC No: 919-857-5 CAS No: 64742-48-9 REACH No: 01-2119463258-33-0003	>25-<30	Flam. Liq.3 H226 Asp. Tox.1 H304 STOT SE.3 H336
2-butoxyethanol	Index No: 603-014-00-0 EC No: 203-905-0 CAS No: 111-76-2 REACH No: 01-2119475108-36-XXXX	>10-<13	Acute Tox.4 H302 Acute Tox.4 H312 Skin Irrit.2 H315 Eye Irrit.2 H319 Acute Tox.4 H332
n-hexane	Index No: 601-037-00-0 EC No: 203-777-6 CAS No: 110-54-3 REACH No: 01-2119455851-35-0006	>9- <10	Flam. Liq.2 H225 Asp. Tox.1 H304 Skin Irrit.2 H315 STOT SE3 H336 Repr.2 H361f STOT RE.2 H373 Aquatic Chronic2 H411 Specific concentration limits: STOT RE.2 H373: 5 ≤C ≤ 100

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4-Isopropenyl-1-Methylcyclohexene	Index No: - EC No: 232-433-8 CAS No: 8028-48-6 REACH No: *	>5<6	Flam. Liq.3 H226 Asp. Tox.1 H304 Skin Irrit.2 H315 Skin Sens.1 H317 Aquatic Chronic2 H411
Carbondioxide	Index No: - EC No: 204-696-9 CAS No: 124-38-9 REACH No:*	>3-<4	Press. Gas (Comp.) H280

Note C - Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

REACH registration number is not available because the substance is exempted from registration or the annual tonnage does not require registration.

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 15 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: 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

May cause drowsiness or dizziness. May cause an allergic skin reaction.

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

Extremely flammable aerosol. Pressurised container: May burst if heated. Thermal decomposition or combustion may liberate toxic fumes.

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.

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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

Collect mechanical in a waste container. Dispose of waste according to the applicable local and national regulation.

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:

Use only in a well-ventilated area. Avoid breathing vapor or aerosol. Avoid contact with eyes, skin. When handling, use appropriate personal protective equipment (see Section 8). Keep away from heat. Do not smoke! When using do not eat or drink.

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.

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 away from heat, sparks, sunlight, open flame and smoking.

7.3 Specific end use(s)

Product designed for lubricating, protecting, cleaning and loosening product for general purpose maintenance applications.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

International Limits Values:

Substance	CAS No:	Basis / Country	Short Time Value [ppm-Calculated]	Short Time Value [mg/m ³]	Time Weighted Average Exposure Limit [ppm-Calculated]	Time Weighted Average Exposure Limit [mg/m ³ -8 h]
2-butoxyethanol	111-76-2	Belgium	50	246	20	98
		France	50	246	10	49
		Germany	20	98	10	49
		Latvia	50	246	20	98
		Poland	-	200	-	98
		Romania	50	246	20	98
		EU	50	246	20	98

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n-hexane	110-54-3	Belgium	-	-	20	72
		France	-	-	20	72
		Germany	400	1440	50	180
		Latvia	-	-	20	72
		Poland	-	-	-	72
		Romania	-	-	20	72
		EU	-	-	20	72
d-limonene	5989-27-5	Germany	20	112	5	28
Carbon dioxide	124-38-9	Belgium	30000	54784	5000	9131
		France	-	-	5000	9000
		Germany	10000	18200	5000	9100
		Latvia	-	-	5000	9000
		Poland	-	-	5000	9000
		Romania	-	27000	-	9000
		EU	-	-	5000	9000
			-	-	5000	9000

DNEL, PNEC - No data available

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 such as EN 166.

Skin protection:

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

The selected protective gloves have to satisfy the specifications of Directive 89/686 / EEC and EN 374.

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.

Thermal hazards: Protection is not required; the product poses no thermal risk.

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

Physical state	Liquid under pressure (aerosol)
Colour	Colourless
Odour	Characteristic
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available

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pH	No data available
Kinematic viscosity	No data available
Solubility	No data available
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
Particle characteristics	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. Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions are expected under normal conditions of storage and use.

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

No data available

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

Acute toxicity

No data available for the mixture.

2-butoxyethanol

LD50 (oral, rat) 1414 mg/kg m.c.

LD50 (dermal, rat) > 2000 mg/kg m.c

LC50 (inhalation, rat) 450ppm

d-limonene

LD50 (oral, rat) > 2000 mg/kg bw

LD50 (dermal, rabbit) > 5000 mg/kg bw

n-hexane

LD50 (oral, rat) 16000 mg/kg m.c.

LD50 (dermal, rabbit) >3350 mg/kg m.c

LC50 (inhalation, rat) >5000ppm

ATEmix- calculated:

Acute toxicity (oral) >2000 mg/kg; not classified

Acute toxicity (dermal) >2000 mg/kg; not classified

Acute toxicity (inhalation) >20 mg/kg; not classified

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Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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 or the unborn child.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure

Aspiration hazard

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

11.2 Information on other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

SECTION 12: Ecological information

12.1 Toxicity

No data available for the mixture.

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

The mixture does not contain substances meeting the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation in a concentration $\geq 0.1\%w/w$

12.6 Endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7 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.

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SECTION 14: Transport Information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1. UN number or ID number	UN1950	UN1950	UN1950	UN1950
14.2. UN proper shipping name	Aerosol	Aerosol	Aerosol	Aerosol, flamme
14.3. Transport hazard class(es)	2.1	2.1	2.1	2.1
14.4. Packing group	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards	NO	NO	NO	NO
14.6. Special precautions for user	Not applicable	Not applicable	No EmS: F-D No EmS : S-U	Not applicable
14.7. Maritime transport in bulk according to IMO instruments	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 Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Aerosol1 H222; H229

Skin Irrit.2 H315

Skin Sens.1 H317

Eye Irrit.2 H319

STOT SE.3 H336

Rep.2 H361

STOT RE.2 H373

Aquatic Chronic3 H412

Relevant H-statements (number and full text)

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

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- H304 May be fatal if swallowed and enters Airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- 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.

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.

Update section: 2,3,11,12,14,16.