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

1.1 Product identifier

Grafen Professional White Lithium Grease Spray

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

Relevant identified uses: High adhesion grease and anti-corrosion properties used for lubrication of locking mechanisms, guides, springs, open gears, steel ropes etc. Weatherproof, hydrophobic. Resistant to high pressures. Reduces friction, removes moisture, eliminates creaking and protects against corrosion. Does not flow down the vertical surface.

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
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1.4 Emergency telephone number:	112
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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 Eye Dam.1 H318 STOT SE.3 H336 Rep.2 H361 STOT RE.2 H373
Environment	Aquatic Chronic2 H411

2.2 Label elements

Contains Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich, Calcium dihydroxide.

Supplemental information on the label:

Not applicable

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Hazard pictograms:



Signal word:

DANGER

Hazard statements:

- H222 Extremely flammable aerosol.
- H229 Pressurised container: May burst if heated.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H336 May cause drowsiness or dizziness.
- H361 May damage fertility or the unborn child
- H373 May cause damage to organs through prolonged or repeated exposure
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P202 Do not handle until all safety precautions have been read and understood.
- 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.
- 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.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P405 Store locked up
- 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


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: Contains Titanium dioxide (CAS 13463-67-7).

Name	Identifiers	[% weight]	Classification according to Regulation (EC) No 1278/2008 (CLP).
Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich	Index No: --- EC No: 925-292-5 CAS: --- REACH Registration No:-	30-60	Flam. Liq.2 H225 Asp. Tox.1 H304 Skin Irrit.2 H315 STOT SE.3 H336 Repr.2 H361 STOT RE.2 H373

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			Aquatic Chronic2 H411
Lubricating oils (note L)	Index No: 649-484-00-0 EC No: 278-012-2 CAS No: 74869-22-0 REACH Registration No:-	25-40	Carc.1B H350
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
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
Butane	Index No: 601-004-00-0 EC No: 203-448-7 CAS No: 106-97-8 REACH Registration No:-	5-15	Flam. Gas.1 H220 Press Gas
Calcium dihydroxide	Index No: - EC No: 215-137-3 CAS No: 1305-62-0 REACH Registration No	1-5	Skin Irrit.2 H315 Eye Dam.1 H318 STOT SE.3 H335

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 15 minutes and get medical attention.

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 the following adverse effects: headache, nausea, vomiting, central nervous system depression, drowsiness, dizziness, disorientation, vertigo. During application and drying, solvent vapours will be emitted. Vapours in high concentrations are narcotic.

Skin:

May causes redness, irritating to skin, discoloration of the skin.

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Eye:

May causes irritation.

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.

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). Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin. 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. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure.

Advice on general occupational hygiene:

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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 oxidizing agents and 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 [mg/m ³ -8 h]	Time Weighted Average Exposure Limit [ppm-Calculated]
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 -
Calcium dihydroxide	1305-62-0	Germany European Union	2(1,2) -	- -	1(1)	- -

(1) Inhalable aerosol (2) 15 minutes average value

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:


No data available for: Lubricating oils, isobutane, propane, butane.

Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich

Route of exposure	WORKERS		CONSUMERS	
	Chronic effect local	Chronic effects systemic	Chronic effect local	Chronic effects systemic
Oral	No data available	No data available	No data available	6 mg/kg bw/day
Inhalation	No data available	93 mg/m ³	No data available	20 mg/m ³
Dermal	No data available	13 mg/kg bw/day	No data available	7 mg/kg bw/day

Calcium dihydroxide

Route of exposure	WORKERS		CONSUMERS	
	Chronic effect local	Chronic effects systemic	Chronic effect local	Chronic effects systemic
Oral	No data available	No data available	No-threshold effect and/or no dose-response information available	No-threshold effect and/or no dose-response information available

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Inhalation	No-threshold effect and/or no dose-response information available	1 mg/m ³	No-threshold effect and/or no dose-response information available	No-threshold effect and/or no dose-response information available
Dermal	No-threshold effect and/or no dose-response information available	No-threshold effect and/or no dose-response information available	No-threshold effect and/or no dose-response information available	No-threshold effect and/or no dose-response information available

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

No data available for: Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich, Lubricating oils, isobutane, propane, butane.

Calcium dihydroxide

Environmental protection target	PNEC
Freshwater	356 µg/L
Freshwater sediments	No data available
Marine water	356 µg/L
Marine sediments	No data available
Food chain	No data available
Microorganisms in sewage treatment	No data available
Soil (agricultural)	1 070 mg/kg soil dw
Air	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. Recommended gloves:

Material: neoprene

Minimum layer thickness: 0.75 mm

Break through time: ≥480 min

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 A.

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

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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.

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. Containers may explode at temperatures above 50°C.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

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

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich

LD50 (rat, oral)	> 25 mL/kg bw
LC50 (rat, inhalation)	73 860 ppm
LD50 (rabbit, dermal)	> 5 mL/kg bw

Lubricating oils

LD50 (rat, oral)	> 5 000 mg/kg bw
LC50 (rat, inhalation)	> 4.7 mg/L air
LD50 (rabbit, dermal)	> 2 000 mg/kg bw

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

Titanium dioxide

LD50 (rat, oral)	>5000 mg/kg bw
LD50 (dermal)	No data available
LC50 (rat, inhalation)	> 6.82 mg/L air

Calcium dihydroxide

LD50 (rat, oral)	> 2 000 mg/kg bw
LD50 (rabbit, dermal)	> 2 500 mg/kg bw
LC50 (inhalation)	No data available

Skin corrosion/irritation

The mixture was classified as an irritant to the skin.

Serious eye damage/irritation

The mixture was classified as an causes serious eye damage.

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

The mixture was classified as an may damage fertility or the unborn child.

STOT-single exposure


The mixture was classified as an may causes drowsiness or dizziness.

STOT-repeated exposure

The mixture was classified as an may causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

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

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Additional information

No further relevant information available.

SECTION 12: Ecological information

12.1 Toxicity

No data available for the mixture.

Hydrocarbons, C6, n-alkanes, iso-alkanes, cyclics, n-hexane rich

Fish (Oncorhynchus mykiss)	LL50	> 13.3 mg/L	exposure time: 96h
Aquatic invertebrates (Daphnia magna)	LC50	45 mmol/m ³	exposure time: 48h
Algae and bacteria (Pseudokirchneriella subcapitata)	EC50	9.9 mg/L	exposure time: 72h

Lubricating oils

Fish (Pimephales promelas)	LL50	> 100 mg/L	exposure time: 96h
Aquatic invertebrates (Daphnia magna)	EC50	> 10 000 mg/L	exposure time: 48h
Algae and bacteria (Pseudokirchneriella subcapitata)	NOEL	≥ 100 mg/L	exposure time: 96h

Isobutane

Fish	LC50	91.42 mg/L	exposure time: 96h
Aquatic invertebrates (Daphnia sp.)	LC50	69.43 mg/L	exposure time: 48h
Algae and bacteria (Green alga)	EC50	11.89 mg/L	exposure time: 96h

Propane

Fish	LC50	49.9 mg/L	exposure time: 96h
Aquatic invertebrates (Daphnia sp.)	LC50	69.43 mg/L	exposure time: 48h
Algae and bacteria (Green alga)	EC50	16.47 mg/L	exposure time: 96h

Butane

Fish	LC50	147.54 mg/L	exposure time: 96h
Aquatic invertebrates (Daphnia sp.)	LC50	69.43 mg/L	exposure time: 48h
Algae and bacteria (Green alga)	EC50	16.47 mg/L	exposure time: 96h

Titanium dioxide

Fish (Danio rerio)	LC50	> 10 mg/L	exposure time: 48h
Aquatic invertebrates (Daphnia magna)	EC50	7.9 mg/L	exposure time: 96h
Algae and bacteria (Pseudokirchneriella subcapitata)	EC50	61 mg/L	exposure time: 72h

Calcium dihydroxide

Fish (Oncorhynchus mykiss)	LC50	50.6 mg/L	exposure time: 96h
Aquatic invertebrates (Daphnia magna)	EC50	49.1 mg/L	exposure time: 48h
Algae and bacteria (Pseudokirchneriella subcapitata)	EC50	184.57 mg/L	exposure time: 72h

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

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.

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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

07 01 04* other organic solvents, washing liquids and mother liquors

SECTION 14: Transport Information

	ADR/RID	IMDG	IATA
14.1. UN number	UN1950	UN1950	UN1950
14.2. UN proper shipping name	Aerosols	Aerosols	Aerosols
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards	YES	YES	YES
14.6. Special precautions for user	Tunnel restriction code: D	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

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

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Aerosol 1 H222, H229
Skin Irrit.2 H315
Eye Dam.1 H318
STOT SE.3 H336
Rep.2 H361
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.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H350 May cause cancer
 H361 May damage fertility or the unborn child
 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.