

According to article 31 and Annex II of the EU REACH Regulation

GRAFEN PROFESSIONAL RUST REMOVER SPRAY

Revision: 31.01.2017
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Version 1.0

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

1.1 Product identifier

Grafen Professional Rust Remover Spray

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

<u>Relevant identified uses:</u> Grafen Professional Rust Remover is non silicone, effectively lubricating and protecting rust removing spray.

1.3 Details of the supplier of the safety data sheet:

Supplier: Madejski Sp. J.

Street address:ul. Makuszyńskiego 28Country/Postcode:Poland, 31-752 KrakówTelephone 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	Flam. Aerosol 1 H222, H229		
Human	Asp. Tox.1 H304 STOT SE.3 H336		
Environment	Not classified		

2.2 Label elements

Contains Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, propane, butane, isobutane.

Supplemental information on the label:

EUH066 Repeated exposure may cause skin dryness or cracking.

Hazard pictograms:





Signal word: DANGER

Hazard statements:

H222 Extremely flammable aerosol.



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H229 Pressurised container: May burst if heated.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P302 + P352 IF ON SKIN: Wash with plenty of water with soap.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P362 +P364 Take off contaminated clothing and wash it before reuse.

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:

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: REACH Registration No:	40-60	Flam. Liq.3 H226 Asp. Tox.1 H304 STOT SE.3 H336 Note P EUH066
Lubricating oils; Baseoil - unspecified	Index No.: 649-484-00-0 EC No: 278-012-2 CAS No: 74869-22-0 REACH Registration No:	20-30	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:	1-20	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:	1-20	Flam. Gas.1 H220 Press Gas
Iso-butane	Index No: 601-004-00-0 EC No: 200-857-2 CAS No: 75-28-5 REACH Registration No:	1-20	Flam. Gas.1 H220 Press Gas

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.

Note P- The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

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



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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. Give a few small glasses of water or milk to drink. 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

Respiratory system:

A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.

Skin

Repeated exposure may cause skin dryness or cracking.

Eve:

May be slightly 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

Thermal decomposition or combustion may liberate carbon oxides, hydrocarbons.

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.



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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. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. 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 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 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. 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 away from heat, sparks, sunlight, open flame and smoking. Keep containers upright. Do not store together with oxidizing agents.

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/m³]	Short Time Value [ppm- Calculated]	Time Weighted Average Exposure Limit [mg/m³-8 h]	Time Weighted Average Exposure Limit [ppm- Calculated]
Propane	74-98-6	Germany	7200	4000	1800	1000
		European	-	-	-	-
		Union				
Butane	106-97-8	Germany	9600	4000	2400	1000
		European	-	-	-	-
		Union				
Iso-butane	75-28-5	Germany	9600	4000	2400	1000
		European Union	-	-	-	-

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics



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	WORKERS		CONSUMERS		
Route of	Acute effect local	Acute effects systemic	Acute effect local	Acute effects systemic	
exposure					
Oral	No data available	No data available	No data available	300 mg/kg bw/day	
Inhalation	No data available	1 500 mg/m³	No data available	900 mg/m³	
Dermal	No data available	300 mg/kg bw/day	No data available	300 mg/kg bw/day	

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

Lubricating oils; Baseoil - unspecified

No data available

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

No data available

Propane, butane, iso-butane

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.

Skin protection:

<u>Hand protection</u>: Wear protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

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

Respiratory protection: Respiratory protection must be used if air contamination exceeds acceptable level. It is recommended to use respiratory equipment with filter.

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 No data available Hq Melting point / freezing point No data available Initial boiling point and boiling range No data available No data available Flash point No data available Evaporation rate Flammability (solid, gas) No data available Upper/lower flammability or explosive limits No data available



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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 No data available Oxidising properties

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

Reacts with oxidizing agents.

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Lubricating oils; Baseoil - unspecified

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

Propane

LD50 (oral)

No data available

LC50 (rat, inhalation)

LD50 (dermal)

No data available

Butane

LD50 (oral) No data available

LC50 (rat, inhalation) 31 mg/l

LD50 (dermal) No data available



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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

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

STOT-single exposure

The mixture was classified as an STOT single exposure - may cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

The mixture was classified as an aspiration hazard - May be fatal if swallowed and enters airways.

Additional information

No further relevant information available. Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

No data available for the mixture.

Hydrocarbons, C9-C11	, n-alkanes, isoalkanes,	cyclics, < 2% aromatics
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Fish (Oncorhynchus mykis)	LL50	> 1 000 mg/L exposition time: 96h
Aquatic invertebrates (Daphnia magna)	EL50	> 1 000 mg/L exposition time: 48h
Algae and bacteria (Pseudokirchneriella subcapitata)	EL50	> 1 000 mg/L exposition time: 72h
Propane		0 1
Fish	LC50	27.98 mg/L exposition time: 96h
Aquatic invertebrates	LC50	14.22 mg/L exposition time: 48h
Algae and bacteria (Green algea)	EC50	7.71 mg/L exposition time: 96h
Butane		
Fish	LC50	27.98 mg/L exposition time: 96h
Aquatic invertebrates	LC50	14.22 mg/L exposition time: 48h
Algae and bacteria (Green algea)	EC50	7.71 mg/L exposition time: 96h
Iso-butane		
Fish	LC50	27.98 mg/L exposition time: 96h
Aquatic invertebrates	LC50	14.22 mg/L exposition time: 48h
Algae and bacteria (Green algea)	EC50	7.71 mg/L exposition time: 96h
Lubricating oils; Baseoil – unspecified		
Fish (Pimephales promelas)	LL50	> 100 mg/L exposition time: 96h
Aquatic invertebrates (Daphnia magna)	EC50	> 10 000 mg/L exposition time: 48h
Algae and bacteria (Pseudokirchneriella subcapitata)	NOEL	≥ 100 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

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

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

SECTION 14: Transport Information

	ADR/RID	IMDG	IATA
14.1. UN number	UN1950	UN1950	UN1950
14.2. UN proper shipping name	Aerosol, flame	Aerosol, flame	Aerosol, flame
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	NO	NO	NO
14.6. Special precautions for user	Not applicable	Not applicable	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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Flam. Aerosol 1 H222, H229 Asp. Tox.1 H304 STOT SE.3 H336

Relevant H-statements (number and full text)

H220 Extremely flammable gas.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

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.