

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

Revision: 22.12.2016

Update date:07.02.2017

Version 2.0

# GRAFEN PROFESSIONAL LIQUID GREASE SPRAY

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

1.1 Product identifier

**Grafen Professional Liquid Grease Spray** 

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

**Relevant identified uses:** Spray is used for reducing friction between the metals and / or metal with plastic surfaces.

**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: ul. Makuszyńskie

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 2 H223, H229
Human	Asp. Tox.1 H304 Skin Irrit.2 H315 STOT SE.3 H336 Carc.2 H351 Repr.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, dichloromethane.

Supplemental information on the label:

Not applicable

#### Hazard pictograms:











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# Signal word: DANGER

#### Hazard statements:

**H223** Flammable aerosol.

**H229** Pressurised container: May burst if heated.

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

**H361** Suspected of damaging 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

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.

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

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

P362 +364 Take off contaminated clothing and wash it before reuse.

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 carbon dioxide.

Name	Identifiers	[% weight]	Classification according to Regulation (EC) No 1278/2008 (CLP).
Hydrocarbons C6, n-alkanes, Iso-alkanes, cyclics, n-hexane rich (100%)*	Index No: EC No: 925-292-5 CAS No: REACH Registration No: 01-2119474209-33- 0002	50-60	Flam. Liq.2 H225 Asp. Tox.1 H304 Skin Irrit.2 H315 STOT SE.3 H336 Repr.2 H361 STOT RE.2 H373 Aquatic Chronic2 H411
Dichloromethane	Index No: 602-004-00-3 EC No.: 200-838-9 CAS No: 75-09-2 REACH Registration No: 01-2119480427-33- 0000	8-15	Carc.2 H351

<sup>\*</sup>Hydrocarbons, C6, n-alkanes, isoalkanes, cyclics, n-hexane rich (100%) is a UVCB substance and includes:



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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:-	<55	Flam. Liq.2 H225 Asp. Tox.1 H304 Skin Irrit.2 H315 STOT SE.3 H336 Repr.2 H361f STOT RE.2 H373 Aquatic Chronic2 H411

Substance UVCB- substance of unknown variable composition, complex reaction products.

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

#### Respiratory system:

Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.

Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

#### Skin:

Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

#### Eye:

Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.

# 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 and other toxic gases.



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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.

#### 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. Do not store together with oxidizing agents and combustible materials. Keep away from acids and bases.

# 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	Time Weighted Average Exposure Limit	
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					[mg/m³-8 h]	[ppm- Calculated]
Dichloromethane	75-09-2	Germany	360	100	180	50
		European Union	-	-	-	-
n-hexane	110-54-3	Germany	1440	400	72	20
		European Union	80	50	-	-
Carbon dioxide	124-38-9	Germany European Union	18200 -	10000	9100 9000	5000 5000

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

### n-hexane

	WORKERS		CONSUMERS	
Route of exposure	Acute effect local	Acute effects systemic	Acute effect local	Acute effects systemic
Oral	No data available	No data available	No data available	4 mg/kg bw/day
Inhalation	No data available	75 mg/m <sup>3</sup>	No data available	16 mg/m³
Dermal	No data available	11 mg/kg bw/day	No data available	5.3 mg/kg bw/day

# Dichloromethane

	WORKERS		CONSUMERS	
Route of exposure			Acute effect local	Acute effects systemic
Oral	No data available	No data available	No data available	0.06 mg/kg bw/day
Inhalation	No hazard identified	353 mg/m³	No hazard identified	88.3 mg/m³
Dermal	No data available	12 mg/kg bw/day	No data available	5.82 mg/kg bw/day

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

	WORKERS		CONSUMERS	
Route of	Acute effect local		Acute effect local	Acute effects systemic
exposure				
Oral	No data available	No data available	No data available	6 mg/kg bw/day
Inhalation	No data available	93 mg/m³	No data available	20 mg/m³
Dermal	No data available	13 mg/kg bw/day	No data available	7 mg/kg bw/day

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

## **Dichloromethane**

Environmental protection target	PNEC	
Freshwater	0.31 mg/L	
Freshwater sediments	2.57 mg/kg sediment dw	
Marine water	0.031 mg/L	
Marine sediments	0.26 mg/kg sediment dw	
Food chain	No data available	
Microorganisms in sewage treatment	No data available	
Soil (agricultural)	0.33 mg/kg soil dw	
Air	No data available	



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

No data available

#### n-hexane

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 No data available Odour threshold No data available pΗ 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 No data available Relative density Solubility(ies) No data available Partition coefficient: n-octanol / water No data available No data available Auto-ignition temperature No data available Decomposition temperature



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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. May explode if heated or overheated.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Reacts with oxidizing agents, acids and bases.

#### 10.4 Conditions to avoid

Avoid release to the environment. Avoid heat, flames and other sources of ignition. Containers may explode at temperatures above  $50^{\circ}$ 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**

# 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

n- hexane

 $\begin{array}{lll} \text{LD50 (rat, oral)} & 43.5 \text{ mL/kg bw} \\ \text{LC50 (rat, inhalation)} & > 31.86 \text{ mg/L air} \\ \text{LD50 (rabbit, dermal)} & > 2 000 \text{ mg/kg bw} \\ \end{array}$ 

Dichloromethane

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

#### Skin corrosion/irritation

The mixture was classified as an irritant to the 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.

#### Carcinogenicity

The mixture was classified as an carcinogenicity - suspected of causing cancer.



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#### Reproductive toxicity

The mixture was classified as an reproductive toxicity - Suspected of damaging fertility or the unborn child.

#### STOT-single exposure

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

#### STOT-repeated exposure

The mixture was classified as an STOT repeated exposure - May cause damage to organs through prolonged or repeated exposure.

### **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.

## **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 exposition time: 96h
Aquatic invertebrates (Daphnia magna)	LC50	45 mmol/m <sup>3</sup> exposition time: 48h
Algae and bacteria (Chlorella pyrenoidosa)	EC50	2.66 % v/v exposition time: 10d
n-hexane		
Fish (Oncorhynchus mykiss)	LL50	13.37 mg/L exposition time: 96h
Aquatic invertebrates (Daphnia magna)	LC50	31.9 mg/L exposition time: 48h
Algae and bacteria (Pseudokirchneriella subcapitata)	EC50	9.947 mg/L exposition time: 72h
Dichloromethane		
Fish (Fundulus heteroclitus)	LC50	97 mg/L exposition time: 48h
Aquatic invertebrates (Daphnia magna)	LC50	220 mg/L exposition time: 48h
Algae and bacteria	No data	a available

### 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.

# **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
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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	YES	YES	YES
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, andamending 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

Flam. Aerosol 2 H223, H229 Asp. Tox.1 H304 Skin Irrit.2 H315 STOT SE.3 H336 Carc.2 H351 Rep.2 H361 STOT RE.2 H373 Aquatic Chronic2 H411

# Relevant H-statements (number and full text)

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.



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H361 Suspected of damaging fertility or the unborn child.

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.