

	<b>Material Safety Data Sheet</b> According to Commission regulation (EU) 2020/878 and article 31 EU REACH Regulation	Revision: 24.01.2018 Update date: 20.12.2023
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Grafen Professional Brake Cleaner

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

#### Relevant identified uses:

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

#### 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)

Flam.Liq.2 H225 Highly flammable liquid and vapour. (Flammable liquids, Hazard Category 2)

Asp.Tox.1 H304 May be fatal if swallowed and enters airways. (Aspiration hazard, Hazard Category 1)

Skin Irrit.2 H315 Causes skin irritation. (Skin corrosion/irritation, Hazard Category 2)

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

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

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. (Hazardous to the aquatic environment — Chronic Hazard, Category 2)

### 2.2 Label elements

Contains Naphtha (petroleum), hydrotreated light, Propan-2-ol.

#### Hazard pictograms:



#### Signal word:

**DANGER**

#### Hazard statements:

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.

H361 Suspected of damaging fertility or the unborn child.

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.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P308+P313 IF exposed or concerned: Get medical advice/ attention.  
 P403+ P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 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).
<b>Naphtha (petroleum), hydrotreated light</b>	Index No: 649-328-00-1 EC No: 265-151-9 CAS No: 64742-49-0 REACH No: 01-2119475133-43-XXXX	50-<75	Flam.Liq.2 H225 Asp.tox.1 H304 Skin Irrit.2 H315 STOT SE.3 H336 Rep.2 H361 Aquatic Chronic2 H411 Note P
<b>Ethanol</b>	Index No: 603-002-00-5 EC No: 200-578-6 CAS No: 64-17-5 REACH No: 01-2119457610-43-XXXX	25-<50	Flam. Liq.2 H225 Eye Irrit.2 H319 Producer specific cinceration limits Eye Irrit.2 H319; C $\geq$ 50%
<b>Propan-2-ol</b>	Index No: 603-117-00-0 EC No: 200-661-7 CAS No: 67-63-0 REACH No: 01-2119457558-25-XXXX	1-<2,5	Flam. Liq.2 H225 Eye Irrit.2 H319 STOT SE.3 H336
<b>Denatonium benzoate</b>	Index No: - EC No: 223-095-2 CAS No: 3734-33-6 REACH No: 01-2120102843-XXXX	<1	Acute Tox.4 H302 Skin Irrit.2 H315 Eye Dam.1 H318 Acute Tox.2 H330
<b>Butanone (ethyl methyl ketone)</b>	Index No: 606-002-00-3 EC No: 201-159-0 CAS No: 78-93-3 REACH No: 01-2119457290-43-XXXX	<1	Flam. Liq.2 H225 Eye Irrit.2 H319 STOT SE.3 H336

Note P- The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

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

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**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:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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.

Eye contact: In direct contact or in contact with high concentrations of vapors of the product may occur eye irritation, reddening, tearing.

On skin contact: May cause skin irritation.

Inhalation: In contact with high concentrations of vapors of the product may occur replenishment, fatigue, nausea, aches and pains and dizziness, aches and pains. Repeated contact with vapors of the product may cause allergic reaction (cough, choking feeling).

After ingestion: May damage the lungs eg. by bronchitis - pneumonia.

#### 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

Highly flammable liquid. 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.

### 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. 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

Cover up spills with absorbent material (sand, sawdust). 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.

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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. 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. Pregnant women must not expose themselves to this 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.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks, sunlight, open flame and smoking. If there is a possibility of electrostatic charges: ensure complete equipotential bonding, always use earthing devices.

### 7.3 Specific end use(s)

Brake cleaner

## 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 <sup>3</sup> ]	Time Weighted Average Exposure Limit [ppm-Calculated]	Time Weighted Average Exposure Limit [mg/m <sup>3</sup> -8 h]
Ethanol	64-17-5	Belgium	-	-	1000	1907
		France	5000	9500	1000	1900
		Germany	800	1520	200	380
		Latvia	-	-	-	1000
		Poland	-	-	-	1900
		Romania	5000	9500	1000	1900
		EU	-	-	-	-
Propan-2-ol	67-63-0	Belgium	400	1000	200	500
		France	400	980	-	-
		Germany	400	1000	200	500
		Latvia	-	600	-	350
		Poland	-	900	-	1200
		Romania	203	500	81	200
		EU	-	-	-	-
Butanone	78-93-3	Belgium	300	900	200	600
		France	200	600	200	600
		Germany	200	600	200	600
		Latvia	300	900	67	200
		Poland	-	450	-	900
		Romania	300	900	200	600
		EU	300	900	200	600

DNEL, PNEC

Butanone

Workers

DNEL long-term-system, dermal: 1161 mg / kg bw / day

DNEL long-term-system, inhalation 600 mg/m<sup>3</sup>

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Population

DNEL long-term-system, oral: 31 mg / kg bw/ day  
 DNEL long-term-system, dermal: 412 mg / kg bw / day  
 DNEL long-term-system, inhalation: 106 mg/m<sup>3</sup>

Ethanol

Workers

DNEL/DMEL Local system, inhalation 1900 mg/m<sup>3</sup>  
 DNEL/DMEL long-term-system, dermal 343 mg/kg bw/day  
 DNEL/DMEL long-term-system, inhalation 950 mg/m<sup>3</sup>

Population

DNEL/DMEL Local system, inhalation 950 mg/m<sup>3</sup>  
 DNEL/DMEL long-term-system, oral 87 mg/kg bw/day  
 DNEL/DMEL long-term-system, inhalation 114 mg/m<sup>3</sup>  
 DNEL/DMEL long-term-system, dermal 206 mg/kg bw/day

PNEC

PNEC Water (fresh water) 0.96 mg/l  
 PNEC Water (sea water) 0.79 mg/l  
 PNEC Sediment (fresh water) 3.6 mg/kg dwt  
 PNEC Sediment (sea water) 2.9 mg/kg dwt  
 PNEC Soil 0.63 mg/kg dwt  
 PNEC STP 580 mg/l

Propan-2-ol

Workers

DNEL long-term-system, dermal 888 mg/kg bw/day  
 DNEL long-term-system, dermal, inhalation 500 mg/m<sup>3</sup>

Population

DNEL long-term-system, dermal 319 mg/kg bw/day  
 DNEL long-term-system, inhalation 89 mg/m<sup>3</sup>  
 DNEL long-term-system, oral 26 mg/kg bw/day

PNEC

PNEC Water (fresh water) 140,9 mg/l  
 PNEC Water (sea water) 140,9 mg/l  
 PNEC Sediment (fresh water) 552 mg/kg  
 PNEC Sediment (sea water) 552 mg/kg  
 PNEC Soil 28 mg/kg

**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 AX

**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

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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
Colour	Colorless
Odour	Characteristic
Melting point/freezing point	No data available
Boiling point or initial boiling point and boiling range	103°C
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	-15°C
Auto-ignition temperature	200 °C
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	<20.5 cSt (40°C)
Solubility	No data available
Partition coefficient n-octanol/water (log value)	No data available
Vapour pressure	4962 Pa (20°C); 153.3 (20.44 kPa) (50°C)
Density and/or relative density	0,75 g/cm <sup>3</sup>
Relative vapour density	No data available
Particle characteristics	No data available

### 9.2 Other information:

LZO (Contents): 99,5 % mass  
 Density LZO 20 °C: 746,14 kg/m<sup>3</sup> (746,14g/L)  
 Average number of carbons: 5,54  
 Average molecular weight: 84,29 g/mol

## 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

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

Strong acids, bases.

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## 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.

#### Butanone

LD50 (rat, oral) 4000 mg/kg

LD50 (rabbit, dermal) 6400 mg/kg

LC50 (rat, inhalation) 23,5 mg/L (4 h)

#### Ethanol

LD50 (rat, oral) 7060 mg/kg

LC50 (rat, inhalation) 20000 ppm/10h

#### Propan-2-ol

LD50 (rat, dermal) >12800 mg/kg

LD50 (rabbit, oral) >5280 mg/kg

LD50 (inhalation) >124,7 Mg/L(4h)

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

#### Skin corrosion/irritation

Causes skin irritation.

#### 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

Suspected of damaging fertility or the unborn child.

#### STOT-single exposure

May cause drowsiness or dizziness.

#### STOT-repeated exposure

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

#### Aspiration hazard

May be fatal if swallowed and enters airways.

### 11.2 Information on other hazards

No further relevant information available

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.

#### Butanone

Fish (Pimephales promelas)

LC50 3220 mg/L (96 h)

Aquatic invertebrates (Daphnia magna)

EC50 5091 mg/L (48 h)

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Algae (*Scenedesmus quadricauda*) EC50 4300 mg/L (168 h)

**Ethanol**

Fish (*Oncorhynchus mykiss*) LC50 42 mg/dm<sup>3</sup> (4d)

Aquatic invertebrates (*Daphnia magna*) EC50 2 mg/dm<sup>3</sup> (8h)

**Propan-2-ol**

Fish (*Pimephales promelas*) LC50 9640 mg/l (96h)

Aquatic invertebrates (*Daphnia magna*) EC50 13299 mg/l (48h)

**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.

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

**SECTION 14: Transport Information**

	ADR/RID	ADN/ADNR	IMDG	IATA
<b>14.1. UN number or ID number</b>	1263	1263	1263	1263
<b>14.2. UN proper shipping name</b>	PAINT	PAINT	PAINT	PAINT
<b>14.3. Transport hazard class(es)</b>	3	3	3	3
<b>14.4. Packing group</b>	II	II	II	II
<b>14.5. Environmental hazards</b>	YES	YES	YES	YES
<b>14.6. Special precautions for user</b>	Not applicable	Not applicable	No EmS: F-D No EmS : S-U	Not applicable
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	Not applicable	Not applicable	Not applicable	Not applicable

**SECTION 15: Regulatory information**



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### 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

Calculated method:

Flam.Liq.2 H225

Asp.Tox.1 H304

Skin Irrit.2 H315

STOT SE.3 H336

Rep.2 H361

Aquatic Chronic2 H411

### Relevant H-statements (number and full text)

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

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

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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: 1,2,3,8,9,11,12,14,16.