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

### 1.1 Product identifier

Grafen Professional Tar&Pitch Cleaner

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

**Relevant identified uses:** Spray cleaner for general use to remove dirt, grease and tar from car parts.

**Uses advised against:** No further relevant information available.

### 1.3 Details of the supplier of the safety data sheet:

<b>Supplier:</b>	<b>Madejski Sp. J.</b>
<b>Street address:</b>	ul. Makuszyńskiego 28
<b>Country/Postcode:</b>	Poland, 31-752 Kraków
<b>Telephone number:</b>	+48 (12) 643 67 67
<b>E-mail:</b>	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 Skin Sens.1 H317 STOT SE.3 H336
Environment	Aquatic Chronic 2 H411

### 2.2 Label elements

Contains Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, D-limonene.


**Supplemental information on the label:**

Not applicable

**Hazard pictograms:**



**Signal word:**  
DANGER

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#### 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.  
**H317** May cause an allergic skin reaction.  
**H336** May cause drowsiness or dizziness.  
**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.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P302 + P352** IF ON SKIN: Wash with plenty of water with soap.  
**P331** Do NOT induce vomiting.  
**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:** Contains carbon dioxide.

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: 01-2119463258-33-0003	80-90	Flam. Liq.3 H226 Asp. Tox.1 H304 STOT SE.3 H336 Note P EUH066
D-limonene	Index No: 601-029-00-7 EC No: 227-813-5 CAS No: 5989-27-5 REACH Registration No:---	10-20	Flam Liq.3 H226 Skin Irrit.2 H315 Skin Sens.1 H317 Aquatic Acute1 H400 Aquatic Chronic1 H410 (M=1)


**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.

### 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.

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**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:

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

##### Skin:

May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Irritating to skin.

##### Eye:

Eye irritation signs and symptoms may include a burning sensation, redness.

#### 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.

#### 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.

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#### 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, 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. Continuous inhalation may cause respiratory irritation. Avoid contact with skin.

#### 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, acids, alkalis.

#### 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 <sup>3</sup> ]	Short Time Value [ppm-Calculated]	Time Weighted Average Exposure Limit [mg/m <sup>3</sup> -8 h]	Time Weighted Average Exposure Limit [ppm-Calculated]
D-limonene	5989-27-5	Germany European Union	112 -	20 -	28 -	5 -
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:

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

Route of exposure	WORKERS		CONSUMERS	
	Acute effect local	Acute effects systemic	Acute effect local	Acute effects systemic
Oral	No data available	No data available	No data available	300 mg/kg bw/day
Inhalation	No data available	1 500 mg/m <sup>3</sup>	No data available	900 mg/m <sup>3</sup>
Dermal	No data available	300 mg/kg bw/day	No data available	300 mg/kg bw/day

#### D-limonene

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Route of exposure	WORKERS		CONSUMERS	
	Acute effect local	Acute effects systemic	Acute effect local	Acute effects systemic
Oral	No data available	No data available	No data available	4.8 mg/kg bw/day
Inhalation	No data available	66.7 mg/m <sup>3</sup>	No data available	16.6 mg/m <sup>3</sup>
Dermal	No data available	9.5 mg/kg bw/day	No data available	4.8 mg/kg bw/day

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

#### D-limonene

Environmental protection target	PNEC
Freshwater	14 µg/L
Freshwater sediments	3.85 mg/kg sediment dw
Marine water	1.4 µg/L
Marine sediments	0.385 mg/kg sediment dw
Food chain	133 mg/kg food
Microorganisms in sewage treatment	No data available
Soil (agricultural)	0.763 mg/kg soil dw
Air	No data available

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

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:

**Hand protection:** 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
pH	No data available

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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)	No data available
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. Containers may explode at temperatures above 50°C.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Reacts with oxidants, acids and bases.

#### 10.4 Conditions to avoid

Avoid release to the environment. Avoid heat, flames and other sources of ignition.

#### 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

##### D-limonene

LD50 (rat, oral)	>2000 mg/kg bw
LC50 (rat, inhalation)	No data
LD50 (rabbit dermal)	> 5 000 mg/kg bw

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

LD50 (rat, oral)	> 10ml/kg
LC50 (rat, inhalation)	>9300 mg/m <sup>3</sup>
LD50 (rabbit, dermal)	>= 3 160 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**

The mixture was classified as an may cause skin sensitisation or allergic reactions in sensitive individuals.

**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.

**SECTION 12: Ecological information**

**12.1 Toxicity**

No data available for the mixture.

**D-limonene**

Fish (Pimephales promelas)	LC50	720 µg/L	exposition time: 96h
Aquatic invertebrates (Daphnia magna)	EC50	0.307 mg/L	exposition time: 48h
Algae and bacteria (Pseudokirchneriella subcapitata)	EC50	0.32 mg/L	exposition time: 72h

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

Fish (Oncorhynchus mykiss)	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

**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**

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### 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
<b>14.1. UN number</b>	UN1950	UN1950	UN1950
<b>14.2. UN proper shipping name</b>	Aerosol, flame	Aerosol, flame	Aerosol, flame
<b>14.3. Transport hazard class(es)</b>	2.1	2.1	2.1
<b>14.4. Packing group</b>	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>	YES	YES	YES
<b>14.6. Special precautions for user</b>	Not applicable	Not applicable	Not applicable
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	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

**Flam. Aerosol 2 H223, H229**


**Asp. Tox.1 H304**

**Skin Irrit.2 H315**

**Skin Sens.1 H317**

**STOT SE.3 H336**



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## Aquatic Chronic 2 H411

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

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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.