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|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------|
|  | Material Safety Data Sheet According to Commission regulation (EU) 2020/878 and article 31 EU REACH Regulation | Revision: 25.08.2021 |
| | Grafen Professional B1 Firestop Foam Gun | Update date:05.10.2022 |
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Grafen Professional B1 Firestop Foam Gun

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

Relevant identified uses: Grafen Professional B1 Firestop Gun Foam is now for filling line joints and gaps, thanks to the connectivity between fixed baffles. Polyurethane foam can also be used to seal between jambs and door and window frames made of wood or metal.

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)

Aerosol 1 H222; H229 Extremely flammable aerosol. Pressurised container: May burst if heated. (Aerosols, Hazard Category 1)

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

Skin Sens.1 H317 May cause an allergic skin reaction (Sensitisation — Skin, hazard category 1)

Eye Irrit.2 H319 Causes serious eye irritation (Serious eye damage/eye irritation, Hazard Category 2)

Resp.Sens.1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled (Sensitisation — Respiratory, hazard category 1)

STOT SE.3 H335 May cause respiratory irritation (Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation)

Carc.2 H351 Suspected of causing cancer (Carcinogenicity, Hazard Category 2)

STOT RE.2 H373 May cause damage to organs through prolonged or repeated exposure (specific target organ toxicity — Repeated exposure, Hazard Category 2)

2.2 Label elements

Contains Polymethylene polyphenyl isocyanate

Supplemental information on the label:

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e.type A1 according to standard EN 14387) is used.

For professional users only.

As from 24 August 2023 adequate training is required before industrial or professional use.

Hazard pictograms:



Signal word:

| | | |
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DANGER

Hazard statements:

H222; H229 Extremely flammable aerosol. Pressurised container: May burst if heated
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

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.
 P261 Avoid breathing dust/fume/gas/mist/vapours/ spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/ attention.
 P362 + P364 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

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.

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). |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Polymethylene polyphenyl isocyanate (contains Methylenediphenyl diisocyanate (MDI) >0,1%) | Index No: - EC No: - CAS No: 9016-87-9 REACH No: polymer | <50 | Acute Tox. 4 H332 Skin Irrit.2 H315 Skin Sens.1 H317 Eye Irrit.2 H319 Resp. Sens.1 H334 STOT SE 3 H335 Carc. 2 H351 STOT RE 2 H373 |
| Tris(2-izopropil)-fosfat | Index No: - EC No: 237-158-7 CAS No: 13674-84-5 REACH No: 01-2119447716-31-XXXX | <19 | Acute Tox.4 H302 |

| | | | |
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| | | | |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----|------------------------------------------|
| Polymer with 2-Butyne-1,4-Diol and (Chloromethyl-)Oxirane, Brominated, Dehydrochlorinated, Methoxylated | Index No: EC No: 617-903-6 CAS No: 86675-46-9 REACH No: * | <16 | Acute Tox.4 H302 |
| Dimethyl ether | Index No: 603-019-00-8 EC No: 204-065-8 CAS No: 115-10-6 REACH No: 01-2119472128-37-0003 | <10 | Flam. Gas1A H220 Press Gass Note U |

Note U- When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

REACH registration number is not available because the substance is exempted from registration or the annual tonnage does not require registration.

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 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: 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

Symptoms/effects after inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye 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

Extremely flammable aerosol. Pressurised container: May burst if heated. Thermal decomposition or combustion may liberate toxic fumes.

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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

Collect mechanical 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 vapor or aerosol. 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.

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 (in temperature below 50°C) Store locked up. Keep away from heat, sparks, sunlight, open flame and smoking.

7.3 Specific end use(s)

Firestop Foam Gun

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

International Limits Values:

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| Substance | CAS No: | Basis / Country | Short Time Value [ppm-Calculated] | Short Time Value [mg/m ³] | Time Weighted Average Exposure Limit [ppm-Calculated] | Time Weighted Average Exposure Limit [mg/m ³ -8 h] |
|----------------|----------|-----------------|-----------------------------------|---------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|
| dimethyl ether | 115-10-6 | Belgium | - | - | 1000 | 1920 |
| | | France | - | - | 1000 | 1920 |
| | | Germany | 8000 | 15200 | 1000 | 1920 |
| | | Latvia | - | - | 1000 | 1920 |
| | | Poland | - | - | 1000 | - |
| | | Romania | - | - | 1000 | 1920 |
| | | EU | - | - | 1000 | 1920 |

DNEL, PNEC - 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.

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.

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 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 under pressure (aerosol) |
| Colour | Light orange |
| Odour | Characteristic |
| Melting point/freezing point | No data available |
| Boiling point or initial boiling point and boiling range | No data available |
| Flammability | No data available |
| Lower and upper explosion limit | No data available |
| Flash point | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |

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| | |
|---------------------------------------------------|--------------------|
| pH | No data available |
| Kinematic viscosity | No data available |
| Solubility | insoluble in water |
| Partition coefficient n-octanol/water (log value) | No data available |
| Vapour pressure | No data available |
| Density and/or relative density | No data available |
| Relative vapour density | No data available |
| Particle characteristics | 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. Extremely flammable aerosol. Pressurised container: May burst if heated.

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

No data 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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

No data available for the mixture.

Dimethyl ether

LC50 (rat, inhalation) 164000 ppm

Tris(2-izopropil)-fosfat

LD50 (dermal, rabbit) >2000 mg/kg bw

Polymer with 2-Butyne-1,4-Diol and (Chloromethyl)-Oxirane, Brominated, Dehydrochlorinated, Methoxylated

LD50 (rat, oral) 917 mg/kg bw

ATEmix- calculated:

Acute toxicity (oral): not classified

Acute toxicity (dermal): not classified

Acute toxicity (inhalation): not classified

Skin corrosion/irritation

Causes skin irritation.

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Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

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

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

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

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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

11.2 Information on other hazards

No further relevant information available

SECTION 12: Ecological information

12.1 Toxicity

No data available for the mixture.

Dimethyl ether

| | | |
|------------------------------------------------|------|---------------------------------|
| Fish (<i>Poecilia reticulata</i>) | LC50 | > 4.1 g/L exposure time: 96h |
| Aquatic invertebrates (<i>Daphnia magna</i>) | EC50 | > 4.4 g/L exposure time: 48h |
| Algae and bacteria (green algae) | EC50 | 154.917 mg/L exposure time: 96h |

Tris(2-izopropil)-fosfat

| | | |
|---------------------------------------------------------------|------|-----------------------------|
| Fish (<i>Pimephales promelas</i>) | LC50 | 51 mg/L exposure time: 96h |
| Aquatic invertebrates (<i>Daphnia magna</i>) | EC50 | 131 mg/L exposure time: 48h |
| Algae and bacteria (<i>Pseudokirchneriella subcapitata</i>) | EC50 | 82 mg/L exposure time: 72h |

Polymer with 2-Butyne-1,4-Diol and (Chloromethyl)-Oxirane, Brominated, Dehydrochlorinated, Methoxylated

| | | |
|---------------------------------------------------------------|------|-------------------------------|
| Fish (<i>Poecilia reticulata</i>) | LC50 | >1000 mg/L exposure time: 96h |
| Aquatic invertebrates (<i>Daphnia magna</i>) | EC50 | >1000 mg/L exposure time: 48h |
| Algae and bacteria (<i>Pseudokirchneriella subcapitata</i>) | EC50 | >1000 mg/L exposure time: 24h |

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

No further relevant information available.

12.7 Other adverse effects

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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.

SECTION 14: Transport Information

| | ADR/RID | ADN/ADNR | IMDG | IATA |
|---------------------------------------------------------------|----------------|----------------|----------------------------|-----------------|
| 14.1. UN number or ID number | UN1950 | UN1950 | UN1950 | UN1950 |
| 14.2. UN proper shipping name | Aerosol | Aerosol | Aerosol | Aerosol, flamme |
| 14.3. Transport hazard class(es) | 2.1 | 2.1 | 2.1 | 2.1 |
| 14.4. Packing group | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | NO | NO | NO | NO |
| 14.6. Special precautions for user | Not applicable | Not applicable | No EmS: F-D No EmS: S-U | Not applicable |
| 14.7. Maritime transport in bulk according to IMO instruments | Not applicable | Not applicable | Not applicable | Not applicable |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

56(a) Methylenediphenyl diisocyanate (MDI) isomers

1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging

(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC;

(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:

— Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

— Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

— This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

74. Diisocyanates, O = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length:

1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless:

(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or

(b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).

2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless:

(a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or

(b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023

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adequate training is required before industrial or professional use”.

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

Aerosol 1 H222; H229

Skin Irrit.2 H315

Skin Sens.1 H317

Eye Irrit.2 H319

Resp.Sens.1 H334

STOT SE.3 H335

Carc.2 H351

STOT RE.2 H373

Relevant H-statements (number and full text)

H220 Extremely flammable gas.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

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

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Product Safety Data Sheet to their own Product Safety Data Sheet.
Update section:2,3,15.

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.