	MATERIAL SAFETY DATA SHEET According to article 31 and Annex II of the EU REACH Regulation	Revision: 02.09.2013
		Update date: 12.05.2018
	GRAFEN PROFESSIONAL HYBRID 50	Version 3.0
		Page 1 of 7

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

1.1 Product identifier

Grafen Professional Hybrid 50

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

Relevant identified uses: Foam designed for the construction industry as a flexible adhesive and sealant, insulation of window and door components to join wood and metal structures, installation of insulation, facade elements and roof constructions.

Uses advised against: no data available

1.3 Details of the supplier of the safety data sheet:

Supplier:	Madejski Sp. J.
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)

Classification of the mixture	Regulation (EC) No 1272/2008 (CLP)
Hazard	
Physical and chemical properties	Not classified
Human	Not classified
Environment	Not classified

2.2 Label elements

Supplemental information on the label:

EUH208 Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Hazard pictograms:

Not applicable

Signal word:

Not applicable


Hazard statements:

Not applicable

Precautionary statements:

Not applicable

2.3 Other hazards

	MATERIAL SAFETY DATA SHEET According to article 31 and Annex II of the EU REACH Regulation	Revision: 02.09.2013
		Update date: 12.05.2018
	GRAFEN PROFESSIONAL HYBRID 50	Version 3.0
		Page 2 of 7

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 Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS 41556-26-7), Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (CAS 82919-37-7).

Name	Identifiers	[% weight]	Classification according to Regulation (EC) No 1278/2008 (CLP)
Trimethoxyvinylsilane	Index No: - EC No: 220-449-8 CAS No: 2768-02-7 REACH Registration No:-*	<2	Flam. Liq.3 H226 Acute Tox.4 H332 STOT RE.2 H373

*A registration number is not available for this substance as the substance is exempted from registration or the annual tonnage does not require a 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 10 minutes and get medical attention if symptoms occur and persists 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 and persists after washing.

Following ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice. Provide ventilation. Call a poison centre or a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

No data available

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.

	MATERIAL SAFETY DATA SHEET According to article 31 and Annex II of the EU REACH Regulation	Revision: 02.09.2013
		Update date: 12.05.2018
	GRAFEN PROFESSIONAL HYBRID 50	Version 3.0
		Page 3 of 7

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Remove 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. Ventilate the area with fresh air.

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:

Avoid breathing vapour or aerosol. Avoid contact with eyes, skin. When handling, use appropriate personal protective equipment (see Section 8). Do not smoke! When using do not eat or drink. Avoid direct contact with the 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. 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 +5 - +25°C. Keep away from heat, sparks, sunlight, open flame and smoking.

7.3 Specific end use(s)

Elastic adhesive and sealant

SECTION 8: Exposure controls/personal protection


8.1 Control parameters

International Limits Values:

Not applicable for product.

Product reacts with water forming methanol.

Substance	CAS No:	Basis / Country	Short Time Value [mg/m ³]	Short Time Value [ppm-Calculated]	Time Weighted Average Exposure Limit [mg/m ³ -8 h]	Time Weighted Average Exposure Limit [ppm-Calculated]
methanol	67-56-1	Germany European Union	1080 -	800 -	280 260	200 200

	MATERIAL SAFETY DATA SHEET According to article 31 and Annex II of the EU REACH Regulation	Revision: 02.09.2013
		Update date: 12.05.2018
	GRAFEN PROFESSIONAL HYBRID 50	Version 3.0
		Page 4 of 7

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

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. Recommended gloves:

Material: butyl rubber

Minimum layer thickness: >0,3 mm

Break through time: ≥480 min

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 ABEK.


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	White, grey and black paste
Odour	Slight
Odour threshold	No data available
pH	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	Not applicable
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	1,56 ± 0,03 g/cm ³
Solubility(ies)	Insoluble; reacts with water.
Partition coefficient: n-octanol / water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

	MATERIAL SAFETY DATA SHEET According to article 31 and Annex II of the EU REACH Regulation	Revision: 02.09.2013
		Update date: 12.05.2018
	GRAFEN PROFESSIONAL HYBRID 50	Version 3.0
		Page 5 of 7

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.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

React with alcohols, amines. Reacts with water forming methanol.

10.4 Conditions to avoid

No further relevant information available.

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

Trimethoxyvinylsilane

LD50 (rat, oral) 7120 - 7236 mg /kg bw

LD50 (rabbit, dermal) 3259 - 3880 mg /kg bw

LC50 (rat, inhalation) 16,8 mg/l

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure


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

Aspiration hazard

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

Additional information

No further relevant information available.

	MATERIAL SAFETY DATA SHEET According to article 31 and Annex II of the EU REACH Regulation	Revision: 02.09.2013
		Update date: 12.05.2018
	GRAFEN PROFESSIONAL HYBRID 50	Version 3.0
		Page 6 of 7

SECTION 12: Ecological information

12.1 Toxicity

No data available for the mixture.

Trimethoxyvinylsilane

Fish (<i>Oncorhynchus mykiss</i>)	LC50	191 mg/L exposition time: 96h
Aquatic invertebrates (<i>Daphnia magna</i>)	EC50	168,7mg/L exposition time: 48h
Algae and bacteria (<i>Desmodesmus subspicatus</i>)	EC50	> 100 mg/L

12.2 Persistence and degradability

Trimethoxyvinylsilane: Not readily biodegradable in water.

12.3 Bioaccumulative potential

Trimethoxyvinylsilane: LogPow: -2

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

08 04 09* Waste adhesives and sealants containing organic solvents or other hazardous substances


SECTION 14: Transport Information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1. UN number	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es) label	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards	Not applicable	Not applicable	Not applicable	Not applicable
14.6. Special precautions for user	Not applicable	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	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.

	MATERIAL SAFETY DATA SHEET According to article 31 and Annex II of the EU REACH Regulation	Revision: 02.09.2013
		Update date: 12.05.2018
	GRAFEN PROFESSIONAL HYBRID 50	Version 3.0
		Page 7 of 7

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

The product is not classified in accordance with Regulation EC 1272/2008

Relevant H-statements (number and full text)

H226 Flammable liquid and vapour

H332 Harmful if inhaled.

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 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.

Updated section: 2,3,4,6,7,8,9,10,11,12,15,16.