

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 11/30/2016 Revision date: 11/30/2016 Version: 1.00

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

1.1. Product identifier

Trade name : Adhesive RAUVISIO mineral + karat

Komponente A

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

1.2.1. Relevant identified uses

Use of the substance/mixture : adhesives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

REHAU AG + Co Otto-Hahn-Straße 2 95111 Rehau - Deutschland T 49 9283 77 0 - F 49 92831 016 sdb@REHAU.com **Email competent person**

sds@kft.de

1.4. Emergency telephone number

Emergency number : National Poison Information Service (NPIS)

24 hour national number professionals only

0844 892 0111

National Health Service (NHS)

24 hour national number consumer

England and Scotland: 111

Wales: 0845 46 47

Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225
Skin corrosion/irritation, Category 2 H315
Sensitisation — Skin, Category 1 H317
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS02

GHS07

Signal word (CLP)

Hazard statements (CLP)

: Danger

Hazardous ingredients

: methyl methacrylate

: H225 - Highly flammable liquid and vapour

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H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

P233 - Keep container tightly closed

P280 - Wear protective gloves, protective clothing, eye protection, face protection

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER, a doctor if you feel unwell

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P403+P233 - Store in a well-ventilated place. Keep container tightly closed

Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

Substances

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methyl methacrylate	(CAS No) 80-62-6 (EC no) 201-297-1 (EC index no) 607-035-00-6 (REACH-no) 01-2119452498-28-xxxx	80 - 90	Flam. Liq. 2, H225 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317
propylidynetrimethyl trimethacrylate	(CAS No) 3290-92-4 (EC no) 221-950-4	5 - 10	Aquatic Chronic 2, H411
1,1'-(p-tolylimino)dipropan-2-ol	(CAS No) 38668-48-3 (EC no) 254-075-1 (REACH-no) 01-2119980937-17-xxxx	0.1 - 1	Acute Tox. 2 (Oral), H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures

Description of first aid measures

: Call a poison center or a doctor if you feel unwell. First-aid measures general

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Consult an eye specialist.

First-aid measures after ingestion Get immediate medical advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

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

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. Hazardous decomposition products in case of

: Toxic fumes may be released.

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5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

Other information : Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing vapours.

Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only

outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures: Wash contaminated clothing before reuse. Contaminated work clothing

: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed

out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Store in original container.

Information about storage in one common

storage facility

: Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methyl methacrylate (80-62-6)			
EU	Local name	Methyl methacrylate	
EU	IOELV TWA (ppm)	50 ppm	
EU	IOELV STEL (ppm)	100 ppm	
United Kingdom	Local name	Methyl methacrylate	
United Kingdom	WEL TWA (mg/m³)	208 mg/m³	
United Kingdom	WEL TWA (ppm)	50 ppm	
United Kingdom	WEL STEL (mg/m³)	416 mg/m³	
United Kingdom	WEL STEL (ppm)	100 ppm	

methyl methacrylate (80-62-6) DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	13.67 mg/kg bodyweight/day

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methyl methacrylate (80-62-6)				
Long-term - local effects, dermal	1.5 mg/cm ²			
Long-term - systemic effects, inhalation	208 mg/m³			
Long-term - local effects, inhalation	208 mg/m³			
DNEL/DMEL (General population)				
Acute - local effects, dermal	1.5 mg/cm ²			
Long-term - systemic effects, inhalation	74.3 mg/m³			
Long-term - systemic effects, dermal	8.2 mg/kg bodyweight/day			
Long-term - local effects, dermal	1.5 mg/cm ²			
Long-term - local effects, inhalation	104 mg/m³			
PNEC (Water)				
PNEC aqua (freshwater)	0.94 mg/l			
PNEC aqua (marine water)	0.94 mg/l			
PNEC aqua (intermittent, freshwater)	0.94 mg/l			
PNEC (Sediment)				
PNEC sediment (freshwater)	5.74 mg/kg dwt			
PNEC (Soil)				
PNEC soil	1.47 mg/kg dwt			
PNEC (STP)				
PNEC sewage treatment plant	10 mg/l			
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)				
DNEL/DMEL (Workers)				
Long-term - systemic effects, dermal	0.6 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	2 mg/m³			
DNEL/DMEL (General population)				
Long-term - systemic effects,oral	0.3 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	0.4 mg/m³			
Long-term - systemic effects, dermal	0.3 mg/kg bodyweight/day			
PNEC (Water)				
PNEC aqua (freshwater)	0.017 mg/l			
PNEC aqua (marine water)	0.002			
PNEC aqua (intermittent, freshwater)	0.17			
PNEC (Sediment)				
PNEC sediment (freshwater)	0.078 mg/kg dwt			
PNEC sediment (marine water)	0.008 mg/kg dwt			
PNEC (Soil)				
PNEC soil	0.005 mg/kg dwt			
PNEC (Oral)				
PNEC oral (secondary poisoning)	Not potentially bioaccumulable			
PNEC (STP)	PNEC (STP)			
PNEC sewage treatment plant	199.5 mg/l			
3.2. Exposure controls				

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Protective gloves made of PVC. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Eye protection:

Safety goggles recommended during refilling

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. A-P2.

Environmental exposure controls:

Avoid release to the environment.

Other information:

Wash hands before breaks and after work. Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Viscous.

Colour : According to product specification.

Odour : Ester.

Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available : No data available

Flash point : 10 °C

Auto-ignition temperature : Not self-igniting
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : 38.7 hPa (20 °C)
Relative vapour density at 20 °C : No data available
Relative density : No data available

Density : 1 g/cm³

Solubility : Water: Insoluble
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : 15000 - 20000 mPa.s
Explosive properties : Product is not explosive.
Oxidising properties : No data available
Explosive limits : 2.1 vol %

: 2.1 vol % 12.5 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Peroxides. Strong acids. Strong bases. Strong oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information	on	
11.1. Information on toxicological effects		
Acute toxicity	: Not classified (Based on available data, the classification criteria are not met)	
ATE CLP (oral)	2778	
methyl methacrylate (80-62-6)		
LD50 oral rat	≈ 7900 mg/kg	
LD50 oral	> 5000 mg/kg (OECD 402 method)	
LC50 inhalation rat (Vapours - mg/l/4h)	29.8 mg/l/4h	
propylidynetrimethyl trimethacrylate (3290-92	-4)	
LD50 oral rat	> 2000 mg/kg (OECD 423 method)	
LD50 dermal rat	> 2000 (OECD 402 method)	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
LD50 oral rat	25 - 200 mg/kg (OECD 423 method)	
LD50 dermal rat	> 2000 (OECD 402 method)	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)	
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)	
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)	
STOT-single exposure	: May cause respiratory irritation.	
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)	
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)	

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

propylidynetrimethyl trimethacrylate (3290-92-4)		
LC50 fish 1 > 1 mg/l (96h; Oncorhynchus mykiss; (OECD 203 method))		
EC50 Daphnia 1 > 9.22 mg/l (48h; Daphnia magna; (OECD 202 method))		
EC50 72h algae (1)> 1 mg/l (Pseudokirchneriella subcapitata; (OECD 201 method))NOEC chronic fish0.138 g/l (32d; Pimephales promelas; (OECD 210 method))		

12.2. Persistence and degradability

methyl methacrylate (80-62-6)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	94 % (14 d)	
propylidynetrimethyl trimethacrylate (3290-92-4)		

propylicylleti illieti yr trillieti acrylate (3290-32-4)

Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential

methyl methacrylate (80-62-6)		
BCF fish 1 ≈ 3 (Quantitative structure-activity relationship (QSAR))		
Log Pow1.38 (20°C)Bioaccumulative potentialBioaccumulation unlikely.		

12.4. Mobility in soil

methyl methacrylate (80-62-6)	
Log Koc	0.94 - 1.86 (eqivalent to EPA OTS 796.2750)

12.5. Results of PBT and vPvB assessment

	Adhesive RAUVISIO mineral + karat Komponente A		
	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

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Component	
methyl methacrylate (80-62-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
propylidynetrimethyl trimethacrylate (3290-92-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods Additional information

- : Disposal must be done according to official regulations. European waste catalogue.
- : Flammable vapours may accumulate in the container.

European List of Waste (LoW) code

: 08 00 00 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 04 00 - wastes from MFSU of adhesives and sealants (including waterproofing products) 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

IMDG	IATA	ADN	RID
1133	1133	1133	1133
ng name			
ADHESIVES	Adhesives	ADHESIVES	ADHESIVES
iption			
UN 1133 ADHESIVES, 3, II	UN 1133 Adhesives, 3, II	UN 1133 ADHESIVES, 3, II	UN 1133 ADHESIVES, 3,
14.3. Transport hazard class(es)			
3	3	3	3
3	3	3	3
		_	_
II	Ш	II	II
izards			
Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
	1133 ng name ADHESIVES iption UN 1133 ADHESIVES, 3, II class(es) 3 II azards Dangerous for the environment : No	1133 1133 ng name ADHESIVES Adhesives iption UN 1133 ADHESIVES, 3, II Class(es) 3 3 II II II II II Dangerous for the environment: No Dangerous for the environment: No	1133 1133 1133 1133 1133 1133 1133 Ing name

14.6. Special precautions for user

- Overland transport

Orange plates

Classification code (ADR) : F1
Special provisions (ADR) : 640D
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E2
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 33

33 1133

Tunnel restriction code (ADR) : D/E EAC code : •3YE

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- Transport by sea

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E2

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3

- Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 640D
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E2

- Rail transport

Classification code (RID) : F1
Special provisions (RID) : 640D
Limited quantities (RID) : 5L
Excepted quantities (RID) : E2
Transport category (RID) : 2
Hazard identification number (RID) : 33

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Seveso Information : P5c FLAMMABLE LIQUIDS

Flammable liquids, Categories 2 or 3 not covered by P5a and P5b

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
DNEL	Derived-No Effect Level		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LD50	Median lethal dose		
PBT	Persistent Bioaccumulative Toxic		

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PNEC	Predicted No-Effect Concentration		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
vPvB	Very Persistent and Very Bioaccumulative		
	CAS (Chemical Abstracts Service) number		
STP	Sewage treatment plant		

Data sources : MSDS of the supplier.

Department issuing data specification sheet: : KFT Chemieservice GmbH

Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim

Germany

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500

Safety Data Sheet Service: +49 6155 8981-522

Contact person : Dr. Daniela Krimm

Full text of H- and EUH-statements:

Tuli toxt of 11 and Eoff statements.						
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2					
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2					
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3					
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2					
Flam. Liq. 2	Flammable liquids, Category 2					
Skin Irrit. 2	Skin corrosion/irritation, Category 2					
Skin Sens. 1	Sensitisation — Skin, Category 1					
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation					
H225	Highly flammable liquid and vapour					
H300	Fatal if swallowed					
H315	Causes skin irritation					
H317	May cause an allergic skin reaction					
H319	Causes serious eye irritation					
H335	May cause respiratory irritation					
H411	Toxic to aquatic life with long lasting effects					
H412	Harmful to aquatic life with long lasting effects					

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2	H225	Calculation method
Skin Irrit. 2	H315	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

KFT SDS EU 01

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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