Safety Data Sheet

Surface sealant 50 ml

Replaces date: 28/01/2021

Revision date: 26/08/2022
Version: 2.1.0

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

1.1. Product identifier

Trade name: Surface sealant 50 ml

Unique Formula Identifier (UFI): Q800-30GN-X00M-P6YV

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

Recommended uses: Glue/adhesive

1.3. Details of the supplier of the safety data sheet

Supplier

Company:	Kramp UK Ltd
Address:	Unit 5 Lancaster Way
Zip code:	SG18 8YL
City:	Biggleswade
Country:	UNITED KINGDOM
E-mail:	sales.uk@kramp.com
Phone:	+44(0)1767 602 600

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 STOT SE 3;H335

Most serious harmful effects: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

2.2. Label elements

Pictograms

Signal word: Warning

Contains

Substance: 2-hydroxyethyl methacrylate; 2-Phenoxyethyl methacrylate; acrylic acid; ethylene dimethacrylate; α, α-dimethylbenzyl hydroperoxide;

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements

P103	Read label before use.
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P280	Wear protective gloves/eye protection/face protection.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing vapours.
P264	Wash thoroughly after handling.
P304+312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P362+364	Take off contaminated clothing and wash it before reuse.
P302+352	IF ON SKIN: Wash with plenty of water.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P403+235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.
Endocrine disrupting properties: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
2-hydroxyethyl methacrylate	868-77-9 212-782-2 01-2119490169-29	10 ≤ 25 %		Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319
2-Phenoxyethyl methacrylate	10595-06-9 234-201-1	10 ≤ 25 %		Skin Irrit. 2;H315 Eye Irrit. 2;H319

acrylic acid	79-10-7 201-177-9 01-2119452449-31	≤ 3 %		Flam. Liq. 3;H226 Acute Tox. 4;H302 Acute Tox. 4;H312 Skin Corr. 1A;H314 Eye Dam. 1;H318 Acute Tox. 4;H332 STOT SE 3;H335 Aquatic Acute 1;H400 C ≥ 1%: STOT SE 3; H335
ethylene dimethacrylate	97-90-5 202-617-2 01-2119965172-38	< 1 %		Skin Sens. 1;H317 STOT SE 3;H335 C ≥ 10%: STOT SE 3; H335
ethanediol	107-21-1 203-473-3 01-2119456816-28	< 1 %		Acute Tox. 4;H302
α, α-dimethylbenzyl hydroperoxide	80-15-9 201-254-7 01-2119475796-19	< 1 %		Org. Perox. E;H242 Acute Tox. 4;H302 Acute Tox. 4;H312 Skin Corr. 1B;H314 Eye Dam. 1;H318 Acute Tox. 3;H331 STOT SE 3;H335 STOT RE 2;H373 Aquatic Chronic 2;H411 C ≥ 10%: Skin Corr. 1B; H314 3% ≤ C < 10%: Skin Irrit. 2; H315 3% ≤ C < 10%: Eye Dam. 1; H318 1% ≤ C < 3%: Eye Irrit. 2; H319 0% ≤ C < 10%: STOT SE 3;H335

Please see section 16 for the full text of H- / EUH-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Seek medical advice in case of persistent discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.

Skin contact: Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.

Eye contact: Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.

General: When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation is irritating to the upper airways. Irritating to eyes. Causes a burning sensation and tearing. Irritating to skin - may cause reddening. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. Can be absorbed through the skin causing symptoms such as dizziness and headache. May cause sensitisation by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing. If ingested, can be irritating to mucous membranes of the mouth and gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed

No special immediate treatment required. Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide.

5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stay upwind/keep distance from source. Stop leak if this can be done without risk. Wear safety goggles. Wear gloves. Wear respiratory protective equipment. Wear suitable protective clothing.

For emergency responders: In addition to the above: Protective suit equivalent to EN 368, type 3, is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a damp cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Work under effective process ventilation (e.g. local exhaust ventilation). Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging. Avoid direct sunlight. Store in a dry, cool, well-ventilated area. Do not store with the following: Oxidisers/ Reducing agents/ Metals.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m³	fiber/cm3	Remarks	Comments
ethanediol	8h		10		Particulate	Sk
ethanediol	8h	20	52		vapour	Sk
ethanediol	15m				Particulate	Sk
ethanediol	15m	40	104		vapour	Sk
acrylic acid	8h	10	29			
acrylic acid	15m	20	59		STEL in relation to a 1-minute reference period.	

Sk = Can be absorbed through the skin.

Measuring methods: Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: EH40/2005 Workplace exposure limits. Last amended January 2020.

DNEL - workers

ethylene dimethacrylate, cas-no 97-90-5

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	1,3 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	2,45 mg/m³				

ethanediol, cas-no 107-21-1

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - local effects)	35 mg/m³				
Dermal DNEL (long-term exposure - systemic effects)	106 mg/kg bw/day				

α, α-dimethylbenzyl hydroperoxide, cas-no 80-15-9

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	6 mg/m³				

DNEL - general population

acrylic acid, cas-no 79-10-7

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (acute/short-term exposure - local effects)	3,6 mg/m³				

Inhalation DNEL (long-term exposure - local effects)	3,6 mg/m³				

ethylene dimethacrylate, cas-no 97-90-5

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	1,47 mg/m³				
Oral DNEL (long-term exposure - systemic effects)	100 mg/kg bw/day				
Dermal DNEL (long-term exposure - systemic effects)	100 mg/kg bw/day				

ethanediol, cas-no 107-21-1

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - local effects)	7 mg/m³				
Dermal DNEL (long-term exposure - systemic effects)	53 mg/kg bw/day				

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.

Personal protective equipment, hand protection: Wear gloves. Nitrile rubber. Penetration time: <4 hours.
Butyl rubber. Penetration time: <8 hours.
Gloves must conform to EN 374. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection: Wear respiratory protective equipment. Filter type: AX. / P. Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Red
Odour	Weak
Solubility	Solubility in water: Insoluble Soluble in the following: Organic solvents.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	

Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Flash Point	> 100 °C	(closed cup)
Auto-ignition temperature		Not spontaneously flammable
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	105000 mPas	25 °C Thixotropic agents
Partition coefficient n-octonol/water	No data	
Vapour pressure	No data	
Density	1,1 g/cm3	20 °C.
Relative density	No data	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Strong oxidisers/ Reducing agents/ Metals.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Do not expose to heat (e.g. sunlight). Avoid heating and contact with ignition sources.

10.5. Incompatible materials

Strong oxidisers. Reducing agents/ Metals.

10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed: Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Surface sealant 50 ml

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE		76400 mg/kg			

2-hydroxyethyl methacrylate, cas-no 868-77-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		5050 mg/kg			

acrylic acid, cas-no 79-10-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		1337 mg/kg			

ethylene dimethacrylate, cas-no 97-90-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		3300 mg/kg			

ethanediol, cas-no 107-21-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		4700 mg/kg			

α, α-dimethylbenzyl hydroperoxide, cas-no 80-15-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		800 mg/kg			

Ingestion may cause discomfort. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

Surface sealant 50 ml

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE		62857.14 mg/kg			

acrylic acid, cas-no 79-10-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		640 mg/kg			

α, α-dimethylbenzyl hydroperoxide, cas-no 80-15-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		500 mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation

Surface sealant 50 ml

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE (gases)		77777.78 ppm			
	ATE (vapours)		628.57 mg/l			

acrylic acid, cas-no 79-10-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse	LC50 (vapour)	2 h	5300 mg/m³			

α, α-dimethylbenzyl hydroperoxide, cas-no 80-15-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (gases)	4 h	220 ppm			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation

acrylic acid, cas-no 79-10-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit		24 h	5 µg/m²	Irritating		
Rabbit			500 mg	Irritating		

ethanediol, cas-no 107-21-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit			555 mg	Slightly irrittating.		

α, α-dimethylbenzyl hydroperoxide, cas-no 80-15-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit			500 mg	Slightly irrittating.		

Irritating to skin - may cause reddening.

Serious eye damage/eye irritation

acrylic acid, cas-no 79-10-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit			1 mg	Irritating		
Rabbit		24 h	250 µg/m²			

ethanediol, cas-no 107-21-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit		1 h	100 mg	Slightly irrittating.		
		6 h	1440 mg	Irritating		
Rabbit		24 h	500 mg	Slightly irrittating.		

Irritating to eyes. Causes a burning sensation and tearing.

Respiratory sensitisation or skin sensitisation: May cause sensitisation by skin contact. Symptoms include reddening, swelling, blistering and ulceration - often slowly developing.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure

acrylic acid, cas-no 79-10-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				Irritating to the respiratory system.		Category 3.

ethylene dimethacrylate, cas-no 97-90-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				Irritating to the respiratory system.		Category 3.

α, α-dimethylbenzyl hydroperoxide, cas-no 80-15-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				Irritating to the respiratory system.		Category 3.

Inhalation is irritating to the upper airways. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

Repeated STOT exposure: The product does not have to be classified. Test data are not available.

Aspiration hazard: The product does not have to be classified. Test data are not available.

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

2-hydroxyethyl methacrylate, cas-no 868-77-9

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas		96hLC50	227000 µg/l			

acrylic acid, cas-no 79-10-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea	Daphnia magna		21dNOEC	3.8 mg/l			

ethanediol, cas-no 107-21-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea	Daphnia magna		48hLC50	4100 mg/l			
Crustacea	Ceriodaphnia dubia		48hLC50	6900 mg/l			
Fish	Pimephales promelas		96hLC50	8050 mg/l			

α, α-dimethylbenzyl hydroperoxide, cas-no 80-15-9

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas		96hLC50	12.7 mg/l			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

2-hydroxyethyl methacrylate, cas-no 868-77-9

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	0.42			

acrylic acid, cas-no 79-10-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	0.38			
			BCF	3.162			

ethylene dimethacrylate, cas-no 97-90-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	1.87			

ethanediol, cas-no 107-21-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	-1.36			

α, α-dimethylbenzyl hydroperoxide, cas-no 80-15-9

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	1.6			

			BCF	9			

No bioaccumulation expected.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water.
If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste (Dir. 2008/98/EU). Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.
Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

Category of waste: EWC code: Depends on line of business and use, for instance 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Absorbent/cloth contaminated with the product: EWC code: 15 02 03 Absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02.

SECTION 14: Transport information

14.1. UN number or ID number: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.4. Packing group: Not applicable.

14.5. Environmental hazards: Not applicable.

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

Special Provisions:

None.

15.2. Chemical Safety Assessment

REACH Reg. No.	Substance name
01-2119452449-31	acrylic acid
01-2119456816-28	ethanediol
01-2119475796-19	α, α-dimethylbenzyl hydroperoxide
01-2119490169-29	2-hydroxyethyl methacrylate
01-2119965172-38	ethylene dimethacrylate

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
2.1.0	26/08/2022	Bureau Veritas HSE/ SUJ	1,16

Abbreviations: PBT: Persistent, Bioaccumulative and Toxic
STOT: Specific Target Organ Toxicity
vPvB: Very Persistent and Very Bioaccumulative

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with Regulation 1907/2006/EC “The Registration, Evaluation and Authorization of Chemicals” as amended by the stationary UK REACH etc. (EU Exit) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components. Test data.

List of relevant H-statements

H226 Flammable liquid and vapour.
H242 Heating may cause a fire.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

SDS is prepared by

Company: Bureau Veritas HSE Denmark A/S

Safety Data Sheet

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Replaces date: 28/01/2021

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Version: 2.1.0

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