

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 31/07/2017 Revision date: 11/09/2022 Supersedes version of: 31/07/2017 Version: 1.1

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

1.1. Product identifier

Product form : Mixture
Trade name : H-silicone mirror

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

1.2.1. Relevant identified uses

Main use category : Professional use

Use of the substance/mixture : Mirror bonding and industrial window glazing

Function or use category : Adhesives, binding agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

Hranipex Czech Republic k.s. J. Rýznerové 97, Komorovice CZ– 396 01 Humpolec Czech Republic

T 565 501 210

hranipex@hranipex.cz - www.hranipex.cz

E-mail address of competent person responsible for the SDS:

sds@regartis.com

Supplier

Hranipex Ltd.
Unit 2 Radial Park, Birmingham Business Park

Birmingham, B37 7YN United Kingdom

T 0121 767 9180 - F 0121 782 6250

hranipex@hranipex.co.uk - www.hranipex.co.uk

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Llandough	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB Newcastle	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Safety Data Sheet

H-silicone mirror



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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

EUH208 - Contains 2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime,

Butan-2-one O,O',O"-(methylsilylidyne)trioxime. May produce an allergic reaction.

2.3. 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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : After contact with skin, first remove product with a dry cloth and then wash the skin with

plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If

skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with plenty of cool water for at least 10 minutes while pulling eyelides up.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

No additional information available

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

Treat symptomatically. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Nitrogen oxides. Formaldehyde. Other toxic gases.



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5.3. Advice for firefighters

Protection during firefighting : Do not breathe fumes from fires or vapours from decomposition. Do not enter fire area

without proper protective equipment, including respiratory protection. Complete protective

clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Ensure adequate ventilation, especially in confined areas.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Spilled material may present a

slipping hazard. Do not touch or walk on the spilled product.

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 release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica

gel). Collect all waste in suitable and labelled containers and dispose according to local

legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure adequate air ventilation. Avoid contact with skin, eyes and clothing. Take care of

instructions on label. Keep away from food and drink.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas

with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area. Store in original container. Protect from moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

Hranipex

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8.1.4. DNEL and PNEC

2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime (96-29-7)					
DNEL/DMEL (Workers)	DNEL/DMEL (Workers)				
Acute - systemic effects, dermal	2.5 mg/kg bodyweight/day				
Long-term - systemic effects, dermal	1.3 mg/kg bodyweight/day				
Long-term - systemic effects, inhalation	9 mg/m³				
Long-term - local effects, inhalation	3.33 mg/m³				
DNEL/DMEL (General population)	DNEL/DMEL (General population)				
Acute - systemic effects, dermal	1.5 mg/kg bodyweight				
Long-term - systemic effects, inhalation	2.7 mg/m³				
Long-term - systemic effects, dermal	0.78 mg/kg bodyweight/day				
Long-term - local effects, inhalation	2 mg/m³				
PNEC (Water)					
PNEC aqua (freshwater) 0.256 mg/l					
PNEC aqua (intermittent, freshwater)	0.118 mg/l				
PNEC (STP)					
PNEC sewage treatment plant	177 mg/l				

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure adequate ventilation. Ensure the ventilation system is regularly maintained and tested.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment. Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing. Chemical resistant safety shoes. EN ISO 20345

Hand protection:

Protective gloves

Hand protection						
Type Material Permeation Thickness (mm) Penetration Standard					Standard	
Chemical resistant gloves (according to European standard EN 374 or equivalent)	Butyl rubber, Chloroprene rubber (CR), Nitrile rubber (NBR), Polyvinylchloride (PVC)	6 (> 480 minutes)	0,5	x	EN ISO 374	



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8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : several colours, depending on product specification.

Appearance : Paste. Odour : Not available Odour threshold : Not available Melting point : Not available Freezing point : Not available Boiling point : Not available Flammability : > 440 °C **Explosion limits** : Not available Lower explosion limit : Not available Upper explosion limit : Not available Flash point : > 100 °C Auto-ignition temperature : Not available : Not available Decomposition temperature

oH : 7

Viscosity, kinematic : > 7 mm²/s

Solubility : Insoluble in water. : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure Vapour pressure at 50 °C : Not available Density : 1 - 1.35 g/ml Relative density : Not available Relative vapour density at 20 °C : Not available Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No hazardous reactions known under normal conditions of use.



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10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Not known.

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 (oral)	:	Not classified. (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified. (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)

Silica, amorphous (7631-86-9)				
LD50 oral rat	> 5000 mg/kg			
LD50 dermal rabbit	> 5000 mg/kg			
LC50 Inhalation - Rat	> 0.139 mg/l/4h			
Skin corrosion/irritation :	Not classified (Based on available data, the classification criteria are not met) pH: 7			
Serious eye damage/irritation :	Not classified (Based on available data, the classification criteria are not met) pH: 7			
Respiratory or skin sensitisation :	Not classified (Based on available data, the classification criteria are not met)			
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 :	Not classified (Based on available data, the classification criteria are not met)			
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)			
H-silicone mirror				
Viscosity, kinematic	> 7 mm²/s			

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term (chronic)

: Not classified (Based on available data, the classification criteria are not met)

: Not classified (Based on available data, the classification criteria are not met)

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Silica, amorphous (7631-86-9)		
LC50 - Fish [1]	> 10000 mg/l Brachydanio rerio	
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna	
EC50 72h - Algae [1]	> 10000 mg/l	

12.2. Persistence and degradability

H-silicone mirror		
Persistence and degradability	The product is not biodegradable.	

12.3. Bioaccumulative potential

H-silicone mirror	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

H-silicone mirror		
Ecology - soil	Not established.	

12.5. Results of PBT and vPvB assessment

H-silicone mirror

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. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12.7. Other adverse effects

Other adverse effects : Not stated.

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Collect all waste in suitable and labelled containers and dispose according to local

legislation.

Product/Packaging disposal recommendations

 Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 07 02 17 - waste containing silicones other than those mentioned in 07 02 16

08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09

15 01 02 - plastic packaging

SECTION 14: Transport information

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



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		·					
ADR	IMDG IATA		ADN	RID			
14.1. UN number or ID n	14.1. UN number or ID number						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.2. UN proper shippin	g name						
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.3. Transport hazard class(es)							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.4. Packing group							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.5. Environmental hazards							
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
No supplementary information available							

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)			
Reference code Applicable on			
28.	2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime		
3(b)	2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime; Butan-2-one O,O',O"-(methylsilylidyne)trioxime		

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list



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PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

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 (CLP)

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)

United Kingdom

British National Regulations

: Directive 2008/98/EC of the European Parliament and of the Council on waste and

repealing certain Directives, in the valid wording.

Regulation (EC) No 1013/2006 of the European Parliament and of the Council on shipments

of waste, in the valid wording.

UK Waste Regulations.

UK REACH.

GB CLP.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes					
Section Changed item		Change	Comments		
	Supersedes	Added			
	Revision date	Added			
3	Composition/information on ingredients	Modified			
4.1	First-aid measures after ingestion	Modified			
4.1	First-aid measures after inhalation	Modified			
4.1 First-aid measures after eye contact		Modified			
4.3 Other medical advice or treatment		Modified			
5.1	Suitable extinguishing media	Modified			
5.2	Hazardous decomposition products in case of fire	Modified			
5.3 Other information		Modified			
5.3	Protection during firefighting	Modified			
6.1	Emergency procedures	Modified			



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Indication of changes				
Section	Changed item	Change	Comments	
6.3	Methods for cleaning up	Modified		
7.1	Precautions for safe handling	Modified		
7.1	Hygiene measures	Modified		
7.2	Storage conditions	Modified		
8.2	Respiratory protection	Modified		
8.2	Hand protection	Modified		
8.2	Eye protection	Modified		
8.2	Appropriate engineering controls	Modified		
8.2	Skin and body protection	Modified		
9.1	Viscosity, kinematic	Added		
9.1	рН	Added		
9.1	Flammability	Added		
9.1	Flash point	Added		
9.1	Solubility	Modified		
9.1	Density	Modified		
10.2	Chemical stability	Modified		
10.3	Possibility of hazardous reactions	Modified		
10.4	Conditions to avoid	Modified		
10.5	Incompatible materials	Modified		
10.6	Hazardous decomposition products	Modified		
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added		
13.1	Product/Packaging disposal recommendations	Modified		
13.1	European List of Waste (LoW) code	Modified		
15.1	REACH Annex XVII	Modified		
15.2	Chemical safety assessment	Added		

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	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	



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Abbreviations and acronyms:		
NOAEL	No-Observed Adverse Effect Level	
PBT	Persistent Bioaccumulative Toxic	
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	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources : ECHA Guidance on the compilation of safety data sheets

ECHA C&L Inventory database. Supplier's safety documents.

Training advice : Provide SDS to employees. Follow general rules on handling chemical substances and/or

mixtures.

Full text of H- and EUH-statements:		
EUH208	Contains . May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	

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.