

SAFETY DATA SHEET MIRROR SPRAY

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

1.1. Product identifier

Product name MIRROR SPRAY

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

Applications Consistency modifier for dental temporary cement.

1.3. Details of the supplier of the safety data sheet

Supplier Kerr Italia S.r.l.

Via Passanti, 332 84018 Scafati (SA) - Italy Tel: +39-081-850-8311 E-mail: safety@kerrhawe.com

Contact person E-mail: safety@kerrhawe.com (Mobile Phone number 08.00 – 23.00:

+39-340.1721884)

Manufacturer KERRHAWE S.A.

Via Strecce n°4

6934 Bioggio (Switzerland) Tel: 00-800-41-050-505 E-mail: safety@kerrhawe.com

1.4. Emergency telephone number

Emergency telephone number 112 # The UK National Poisons Emergency number: +44 870 600 6266 WEB:

http://www.toxbase.org

CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only)

001-800-424-9300

International and Maritime Telephone Number +1 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

 Classification according to directives

 67/548/EEC, 99/45/EC & 2001/58/EC
 R-11

 (DSD/DPD)
 R-36

Classification according to directive GHS07, GHS02, Warning

1272/2008 (CLP) Flam. Aerosol 2: H223

Eye Irrit. 2: H319

Hazard The product is seen as a medical device and therefore not subject to labelling,

regulation (EC) no 1272/2008 of the european parliament and of the council, article 1d; Medical devices as defined in Directives 90/385/EEC and 93/42/EEC, which are invasive or used in direct physical contact with the human body, and in Directive

98/79/EC.

2.2. Label elements

CLP

Hazard pictograms





Signal word Warning

Hazard statements Flam. Aerosol 2: H223 Flammable aerosol.

Eye Irrit. 2: H319 Causes serious eye irritation.

Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P412 Do not expose to temperatures exceeding 50°C/ 122°F.

Contains propan-2-ol

propane butane isobutane

2.3. Other hazards

Meets the criteria for vPvB No.

Meets the criteria for PBT No.

Other hazards which do not contribute

to classification

No known risks.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Ingredients

Name	EC No.	CAS No.	Content	Symbol	Classification
propan-2-ol	200-661-7	67-63-0	49-50 %	Xi ,F	R-11, R-36, R-67
propane	200-827-9	74-98-6	9-10 %	F+	R-12
butane	203-448-7	106-97-8	35-40 %	F+	R-12
isobutane	200-857-2	75-28-5	0,5-1 %	F+	R-12

CLP

Name	REACH No.	Content	Symbol	Classification	CAS No.
propan-2-ol	01-21194575 58-25	49-50 %	GHS07, GHS02, , Danger	Flam. Liq. 2: H225, Eye Irrit. 2: H319, STOT SE 3: H336	67-63-0
propane	01-21194869 44-21	9-10 %	GHS04, GHS02, , Danger	Flam. Gas 1: H220	74-98-6
butane	01-21194746 91-32	35-40 %	GHS04, GHS02, , Danger	Flam. Gas 1: H220	106-97-8
isobutane	01-21194853 95-27	0,5-1 %	GHS04, GHS02, , Danger	Flam. Gas 1: H220	75-28-5

Section 16 contains detailed classification phrases.

SECTION 4: First aid measures



4.1. Description of first aid measures

General Remove victim immediately from source of exposure. General first aid, rest, warmth

and fresh air. Get medical attention if any discomfort continues.

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

Specific first aid treatment No specific first aid measures noted.

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

Inhalation Move the exposed person to fresh air at once. When breathing is difficult, properly

trained personnel may assist affected person by administering 100% oxygen.

Ingestion Contact physician if larger quantity has been consumed. Promptly get affected

personnel to drink large volumes of water to dilute the swallowed chemical.

Skin Wash skin with soap and water.

Eyes Immediately flush with plenty of water for up to 15 minutes. Remove any contact

lenses and open eyes wide apart. Get medical attention if any discomfort continues.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Extinguishing media Water spray, fog or mist. Powder, foam or CO2.

Special fire fighting procedures Avoid water in straight hose stream; will scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards HIGHLY FLAMMABLE!

Hazardous combustion products Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

Protective measures in fire Wear self-contained breathing apparatus (SCBA) to prevent contact with thermal

decomposition products.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection Wear appropriate personal protective equipment - see Section 8.

6.2. Environmental precautions

Environmental protection Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Spill cleanup methods For small spills wipe up with paper towel and place in container for disposal. Collect

and reclaim or dispose in sealed containers in licensed waste. Extinguish all ignition

sources. Avoid sparks, flames, heat and smoking. Ventilate.

6.4. Reference to other sections

See section 13 for waste handling.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling, skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep in cool, dry, ventilated storage and closed containers. Store separated from:

Oxidising material.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Keep away from heat, sparks

and open flame.

Storage criteria Flammable compressed gas storage.

7.3. Specific end use(s)

Specific use(s) Contact supplier for more information.



SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredient name	CAS no.	Reference	LT Exp 8 Hrs	ST Exp 15 Min	Date
propan-2-ol	67-63-0	WEL.	400/999 ppm/mg/m³	500/1250 ppm/mg/m3	
butane	106-97-8	WEL.	600/1450 ppm/mg/m³	750/1810 ppm/mg/m3	

Ingredient comments WEL = Workplace exposure limits. SK= Skin absorbance, Rep= Reproduction, Carc=

Carcinogenic Senz= Sensitisers, Mut= Carcinogenic

Protective equipment





VentilationNo specific ventilation requirements noted, except this product must not be used in a

confined space without good ventilation.

8.2. Exposure controls

Respirators In case of inadequate ventilation or risk of inhalation of vapours, use suitable

respiratory equipment with combination filter (type A2/P3). Standard EN 149.

Protective gloves Use protective gloves made of: Nitrile. Standard EN 374. Time of breakthrough is not

known, change gloves regulary. Suitable glove must be chosen in consultation with the gloves supplier, giving information of the breakthrough time for the glove material.

Eye protection Wear approved chemical safety goggles where eye exposure is reasonably probable.

Standard EN 166.

Other Protection Wear appropriate clothing to prevent any possibility of skin contact.

Hygienic work practices Wash at the end of each work shift and before eating, smoking and using the toilet.

DNEL No data.
PNEC No data.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Fluid. Aerosol.

Colour Colourless.

Odour Alcohol.

Physical data comments Datas for liquid part.

Solubility description

Soluble in water. Miscible with: Alcohol.

Boiling point (°C, interval) ~ 82

Pressure

Melting/freezing point (°C, interval) ~ -90

Density (g/cm3) 0,837 Temperature (°C)
Vapour pressure >4,3 kPa Temperature (°C)

pH-value, conc. solution 7

Viscosity (interval) 2,43 mPas Temperature (°C)

Flash point (°C) -4 Method

9.2. Other information

Safety information Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactive groups.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous polymerisation Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomp. products
No hazardous decomposition products are emitted at recommended use and storage

conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Sensitization No allergic reaction is known.

Genotoxicity

No known heritable or mutagenic effects.

Carcinogenicity

No evidence of carcinogenic properties.

Reproduction toxicity

No known hazardous effects on reproduction, fertility or to the unborn child.

Inhalation Vapours may cause drowsiness and dizziness.

Ingestion Not likely, due to the form of the product.

Skin Slightly irritating. Contact with liquid form may cause frostbite.

Eyes Causes serious eye irritation.

COMPONENT: propan-2-ol

 Toxic dose - LD50:
 4710 mg/kg (oral rat)

 Toxic dose - LD50:
 12800 mg/kg (skin rat)

 Toxic dose - LD50 (skin):
 12800 mg/kg (skin rabbit)

 Toxic conc. - LC50:
 72,6 mg/l/4h (inhalation rat)

COMPONENT: propane

Toxic dose - LD50: >5000 mg/kg (oral rat)

Toxic conc. - LC50: 513 mg/l/h (inh rat)

COMPONENT: butane

Toxicology data Acute toxicity. LC50. 2 hours. Inhalation. Mouse. 680 mg/l

Toxic conc. - LC50: 658 mg/l/4h (inhalation rat)

COMPONENT: isobutane

Toxic conc. - LC50: >50 mg/l/4h (inhalation rat)

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not regarded as dangerous for the environment.

12.2. Persistence and degradability

Unknown.

12.3. Bioaccumulative potential

Unknown.



12.4. Mobility in soil

Mobility The product is soluble in water. The product is volatile and will evaporate quickly.

12.5. Results of PBT and vPvB assessment

PTB/vPvB Component(s) is not identified as a PBT or vPvB-substance.

12.6. Other adverse effects

No known information.

COMPONENT: propan-2-ol

LC 50, 96 Hrs, Fish mg/l: 4200 (Rasbora heteromorpha)
EC 50, 48 Hrs, Daphnia, mg/l: 13299 (Daphnia magna)

Bioaccumulative potential BCF:<100
Partition coefficient (log Pow) 2,97

Persistence and degradability BOD5/COD: 0,3 - 0,6

84 % deg., 28 days, Method: OECD 301D

COMPONENT: propane

LC 50, 96 Hrs, Fish mg/l: 16,9

EC 50, 48 Hrs, Daphnia, mg/l: 16,3

IC 50, 72 Hrs, Algae, mg/l: 11,3

Bioaccumulative potential BCF: 13,18

Component will not bio-accumulate.

Partition coefficient (log Pow) 2.36 COMPONENT: butane Bioaccumulative potential BCF:33,88 Partition coefficient (log Pow) 2,89 COMPONENT: isobutane LC 50, 96 Hrs, Fish mg/l: 9,89 EC 50, 48 Hrs, Daphnia, mg/l: 8,96 IC 50, 72 Hrs, Algae, mg/l: 5,94 Bioaccumulative potential BCF:26,92

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Partition coefficient (log Pow)

General/cleaning Waste is classified as hazardous waste.

Disposal methods Dispose of in accordance with Local Authority requirements.

2,82

Waste class 16 05 04* gases in pressure containers (including halons) containing dangerous

substances

18 01 06 * chemicals consisting of or containing dangerous substances

SECTION 14: Transport information

Label for conveyance



ROAD TRANSPORT (ADR):

14.1. UN number

 UN no. road
 1950

 UN no. sea
 1950

 UN no., air
 1950

14.2. UN proper shipping name



Proper shipping name (international) Aerosols, flammable

14.3. Transport hazard class(es)

ADR class no. 2
ADR Hazard labels 2.1
Classification code 5F
Hazard no. (ADR) 20

RAIL TRANSPORT (RID):

RID class no. 2
RID Hazard labels 2.1

SEA TRANSPORT (IMDG):

IMDG class 2.1
EmS no. F-D, S-U

TRANSPORT BY INLAND WATERWAYS (ADN):

AIR TRANSPORT (IATA-DGR / ICAO-TI):

IATA/ICAO class 2.1

14.4. Packing group

14.5. Environmental hazards

Transport by inland waterways notes

Not applicable.

14.6. Special precautions for user

No particular precautions.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No IBC-code for bulk transport offshore (MARPOL).

SECTION 15: Regulatory information

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

EU directives Diaggnostic medical devices, EU-directive 98/79/EC, EU-regulation 1272/2008, article

1, paragraph 5d, EU-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Tranport of dangerous goods (ADR/RID, IMDG, IATA/ICAO).

Workplace exposure limits.

15.2. Chemical safety assessment

Chemical Safety Assessment Chemical Safety Report (CSR) has not been carried out for this product.

SECTION 16: Other information

Explanations to R-phrases in section 3 R-11 Highly flammable.

R-12 Extremely flammable. R-36 Irritating to eyes.

R-67 Vapours may cause drowsiness and dizziness.

Explanations to classification in section

H220 Extremely flammable gas.

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H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

DSD/DPD

Labeling F, Xi,

Risk phrases R-11 Highly flammable.
R-36 Irritating to eyes.

* Information revised since the previous version of the SDS

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