

SAFETY DATA SHEET Liquasil One

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

1.1. Product identifier

Product name Liquasil One

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

Identified uses Flexible coating

1.3. Details of the supplier of the safety data sheet

Supplier Liquasil Ltd

Unit 3 Radway Industrial Estate

Radway Road

Solihull

West Midlands B90 4NR 0121 709 5352 info@liquasil.com

1.4. Emergency telephone number

Emergency telephone 0121 709 5352 (office hours only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Skin Sens. 1 - H317

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

Precautionary statements P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P501 Dispose of contents/container in accordance with national regulations.

Contains METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE, BUTANONE OXIME VINYLSILANE, 3-

(2-AMINOETHYLAMINO)-PROPYLTRIMETHOXYSILANE

2.3. Other hazards

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE

1-5%

Classification

Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT RE 2 - H373

BUTANONE OXIME VINYLSILANE

<1%

Classification

Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT RE 2 - H373

3-(2-AMINOETHYLAMINO)-PROPYLTRIMETHOXYSILANE

<1%

CAS number: 1760-24-3 EC number: 217-164-6

Classification

Acute Tox. 4 - H332 Eye Dam. 1 - H318 Skin Sens. 1 - H317

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by

mouth to an unconscious person.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if

readily available. Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact Wipe off excess material with cloth or paper. Wash skin thoroughly with soap and water. Get

medical attention if any discomfort continues.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort

continues.

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

Inhalation No specific symptoms known.

Ingestion May cause discomfort if swallowed.

Skin contact Mild dermatitis, allergic skin rash.

Eye contact May cause temporary eye irritation.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray, fog or mist. Foam, carbon dioxide or dry powder.

Unsuitable extinguishing

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Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

Hazardous combustion

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours.

5.3. Advice for firefighters

Protective actions during

firefighting

media

Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions In case of spills, beware of slippery floors and surfaces. Wear appropriate protective clothing.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health

hazards. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with eyes and prolonged skin contact. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Miscellaneous hazardous material storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Pourable/Paintable Coating

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

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METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE (CAS: 22984-54-9)

DNEL Workers - Inhalation; Long term systemic effects: 0.988 mg/m³

Workers - Dermal; Long term systemic effects: 0.14 mg/kg/day

General population - Inhalation; Long term systemic effects: 0.174 mg/m³ General population - Dermal; Long term systemic effects: 0.05 mg/kg/day General population - Oral; Long term systemic effects: 0.05 mg/kg/day

PNEC - Fresh water; 0.26 mg/l

- Marine water; 0.026 mg/l - Intermittent release; 0.12 mg/l

- STP; 10 mg/l

Sediment (Freshwater); 1.02 mg/kgSediment (Marinewater); 0.102 mg/kg

- Soil; 0.05 mg/kg

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

All handling should only take place in well-ventilated areas.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible. Personal protective equipment for eye and face protection should

comply with European Standard EN166.

Hand protection Use protective gloves. The most suitable glove should be chosen in consultation with the

glove supplier/manufacturer, who can provide information about the breakthrough time of the

glove material.

Hygiene measures Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Wash promptly if skin becomes contaminated.

Respiratory protection No specific recommendations.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Various colours.

Odour Slight.

Odour threshold Not determined.

pH (concentrated solution): Not applicable.

Melting point Not applicable.

Initial boiling point and range Not applicable.

Flash point Not applicable.

Evaporation rate Not applicable.

Evaporation factor Not applicable.

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Upper/lower flammability or

explosive limits

Not applicable.

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density 1.20 @ 20°C

Solubility(ies) Insoluble in water.

Partition coefficient Not applicable.

Auto-ignition temperature Not applicable.

Decomposition Temperature Not determined.

Viscosity <300 P @ 20°C

Explosive properties Not applicable.

Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria

for classification as oxidising.

9.2. Other information

Other information Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

products

Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Butanone-2-oxime (MEKO) is damaging to nasal membranes in rats and mice at a

concentration in excess of 10ppm over a prolonged period of time.

Acute toxicity - oral

Notes (oral LD50) For this endpoint no toxicological data is available for the whole product.

Acute toxicity - dermal

Notes (dermal LD₅₀) For this endpoint no toxicological data is available for the whole product.

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Acute toxicity - inhalation

Notes (inhalation LC50) For this endpoint no toxicological data is available for the whole product.

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisationThe product contains small amounts of sensitising substances which may cause an allergic

reaction in sensitive individuals.

Germ cell mutagenicity

Genotoxicity - in vitroDoes not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposureNot classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation No specific health hazards known.

Ingestion May cause discomfort if swallowed.

Skin contact May cause sensitisation by skin contact.

Eye contact May cause temporary eye irritation.

Acute and chronic health

hazards

Product may cause an allergic reaction in hypersensitive persons. Moisture curing process releases a small amount of butanone-2-oxime (MEKO) which can irritate skin and mucous membranes. Prolonged exposure to large quantities of MEKO may cause irreversible damage

to health.

Route of entry Skin and/or eye contact

Target organs Skin

Medical symptoms Allergic rash.

Medical considerations Skin disorders and allergies.

SECTION 12: Ecological Information

Ecotoxicity In cross-linked state not soluble in water. Easily separable from water by filtration.

12.1. Toxicity

Toxicity There are no data for the product.

Acute toxicity - fish LC₈₀, 96 hours: MEKO: 48 mg/l, Lepomis macrochirus (Bluegill)

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Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: MEKO: 750 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potentialBioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be

considered. Waste is classified as hazardous waste.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

Waste class Recommended EWC Code 08 04 10

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

No information required.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

14.4. Packing group

No information required.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

No information required.

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

Transport in bulk according to No information required.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) 1907/2006 REACH (as amended).

Regulation (EC) 1272/2008 CLP (as amended).

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments Classification and labelling according to CLP Regulations.

 Revision date
 02/12/2015

 Supersedes date
 29/01/2014

SDS number 20362

Hazard statements in full H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs (Blood) through prolonged or repeated exposure if

swallowed.

H373 May cause damage to organs (Blood) through prolonged or repeated exposure if

swallowed.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.