



SAFETY DATA SHEET

Liquasil Non Sag Sealer

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

1.1. Product identifier

Product name Liquasil Non Sag Sealer

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 Eye Irrit. 2 - H319 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.
H319 Causes serious eye irritation.

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Precautionary statements	<p>P280 Wear protective gloves.</p> <p>P280 Wear eye protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
Contains	METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE, BUTANONE OXIME VINYLSILANE, 3-(2-AMINOETHYLAMINO)-PROPYLTRIMETHOXYSILANE
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE	1-5%
CAS number: 22984-54-9	EC number: 245-366-4

Classification

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

BUTANONE OXIME VINYLSILANE	1-5%
CAS number: 2224-33-1	EC number: 218-747-8

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.

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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.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, fog or mist. Foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	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	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.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
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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.
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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.
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SECTION 7: Handling and storage

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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

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

DNEL	Workers - Inhalation; Long term systemic effects: 0.988 mg/m ³ Workers - Dermal; Long term systemic effects: 0.14 mg/kg/day General population - Inhalation; Long term systemic effects: 0.174 mg/m ³ 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/kg - Sediment (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

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Appearance	Liquid.
Colour	Various colours.
Odour	Slight.
Odour threshold	Not determined.
pH	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.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	1.0 @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not determined.
Viscosity	500 - 1500 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 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.

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10.6. Hazardous decomposition products

Hazardous decomposition products 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.

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 sensitisation The product contains small amounts of sensitising substances which may cause an allergic reaction in sensitive individuals.

Germ cell mutagenicity

Genotoxicity - in vitro Does 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 exposure Not 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.

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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.
<u>12.1. Toxicity</u>	
Toxicity	There are no data for the product.
Acute toxicity - fish	LC ₅₀ , 96 hours: MEKO: 48 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: MEKO: 750 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: mg/l, Algae
<u>12.2. Persistence and degradability</u>	
Persistence and degradability	The product is not readily biodegradable.
<u>12.3. Bioaccumulative potential</u>	
Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
Partition coefficient	Not applicable.
<u>12.4. Mobility in soil</u>	
Mobility	The product is insoluble in water.
<u>12.5. Results of PBT and vPvB assessment</u>	
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
<u>12.6. Other adverse effects</u>	
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).
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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.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information required.

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 03/12/2015

SDS number 20364

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.