

SAFETY DATA SHEET

Liquasil One

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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	f the substance or mixture and uses advised against	
Identified uses	Flexible coating	
Uses advised against	Use only for intended applications.	
1.3. Details of the supplier of t	he 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 nur	nber	
Emergency telephone	0121 709 5352 (office hours only)	
SECTION 2: Hazards identific	ation	
2.1. Classification of the subst Classification (EC 1272/2008) Physical hazards		
Health hazards	Not Classified	
Environmental hazards	Not Classified	
2.2. Label elements		
Hazard statements	NC Not Classified	
Supplemental label information	EUH208 Contains N-(3-(Trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction. EUH210 Safety data sheet available on request.	

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Curing process releases 2-pentanone oxime. 2-Pentanone oxime is classified as harmful if swallowed, causes serious eye irritation, may cause damage to blood/spleen through prolonged/repeated exposure and is harmful to aquatic life with long lasting effects.

3.2. Mixtures

O,O',O"-(Methylsilylidyne)trio	xime 2-pentanone	< 5%
CAS number: 37859-55-5	EC number: 484-460-1	REACH registration number: 01- 2120004323-76-XXXX
Classification Acute Tox. 4 - H302 Eye Irrit. 2 - H319		
The full text for all hazard state	ements is displayed in Section 16.	
SECTION 4: First aid measure	98	
4.1. Description of first aid me	asures	
General information	In all cases of doubt, or if symptoms persist, mouth to an unconscious person.	seek medical attention. Never give anything by
Inhalation	Move affected person to fresh air and keep v breathing. Get medical attention if any discor	warm and at rest in a position comfortable for mfort continues.
Ingestion		nty of water to drink. Give milk instead of water if et medical attention if any discomfort continues.
Skin contact	Wipe off excess material with cloth or paper. medical attention if any discomfort continues developing, ensure further exposure is avoid	
Eye contact	Rinse immediately with plenty of water. Rem apart. Continue to rinse for at least 15 minute continues.	ove any contact lenses and open eyelids wide es. Get medical attention if any discomfort
4.2. Most important symptoms	and effects, both acute and delayed	
General information	Curing process releases 2-pentanone oxime swallowed, causes serious eye irritation, may prolonged/repeated exposure.	. 2-Pentanone oxime is classified as harmful if y cause damage to blood/spleen through
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 immedia	te medical attention and special treatment nee	ded
Notes for the doctor	Treat symptomatically.	
SECTION 5: Firefighting meas	sures	
5.1. Extinguishing media		
Suitable extinguishing media	Water spray, fog or mist. Foam, carbon dioxi	de or dry powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	his will spread the fire.
5.2. Special hazards arising fr	om the substance or mixture	
Specific hazards	No unusual fire or explosion hazards noted.	
Hazardous combustion products	Thermal decomposition or combustion may l vapours.	iberate carbon oxides and other toxic gases or

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	e measures	
6.1. Personal precautions, prot	ective 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 o	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 stor	rage	
7.1. Precautions for safe handl	ing	
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.	
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		
Occupational exposure limits		

Toluene

Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m³ Sk

Methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³ Sk

WEL = Workplace Exposure Limit. Sk = Can be absorbed through the skin.

O,O',O"-(Methylsilylidyne)trioxime 2-pentanone (CAS: 37859-55-5)

DNEL

Workers - Inhalation; Long term systemic effects: 0.229 mg/m³ Workers - Dermal; Long term systemic effects: 0.065 mg/kg

PNEC	Fresh water; 0.1 mg/l marine water; 0.01 mg/l STP; 2.15 mg/l Sediment (Freshwater); 0.569 mg/kg Sediment (Marinewater); 0.057 mg/kg Soil; 0.044 mg/kg		
	Toluene (CAS: 108-88-3)		
DNEL	Workers - Inhalation; Long term systemic effects: 192 mg/m ³ Workers - Inhalation; Short term systemic effects: 384 mg/m ³ Workers - Inhalation; Long term local effects: 192 mg/m ³ Workers - Inhalation; Short term systemic effects: 384 mg/m ³ Workers - Dermal; Long term systemic effects: 384 mg/kg/day		
PNEC	 Fresh water; 0.68 mg/l marine water; 0.68 mg/l Intermittent release; 0.68 mg/l STP; 13.61 mg/l Sediment (Freshwater); 16.39 mg/kg Sediment (Marinewater); 16.39 mg/kg Soil; 2.89 mg/kg 		
	Methanol (CAS: 67-56-1)		
DNEL	Workers - Inhalation; Long term systemic effects: 130 mg/m ³ Workers - Inhalation; Short term systemic effects: 130 mg/m ³ Workers - Inhalation; Long term local effects: 130 mg/m ³ Workers - Inhalation; Short term local effects: 130 mg/m ³ Workers - Dermal; Long term systemic effects: 20 mg/kg/day Workers - Dermal; Short term systemic effects: 20 mg/kg/day		
8.2. Exposure controls			
Protective equipment			
Appropriate engineering controls	All handling should only take place in well-ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment.		
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 at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated.		
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.		
SECTION 9: Physical and ch			

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid. Colour Various colours. Odour Slight. Colour Slight. Colour threshold No information available. Melling point No information available. Initial boiling point and range No information available. Exaporation factor No information available. Evaporation factor No information available. Planmability (solid, gas) No information available. Opper/ower finance No information available. Vapour pressure No information available. Vapour density No information available. Vapour density No information available. Vatoigntion temperature No information available. Auto-ignition temperature No information available. Auto-ignition temperature No information available. Operformetiment available. No infor	Anno	1 Sec. Sel	
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	10.4. Conditions to avoid		
10.5. Incompatible materials	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 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 inf	formation	
11.1. Information on toxicologi	cal effects	
Toxicological effects	There are no data available on this product.	
Acute toxicity - oral		
Notes (oral LD ₅₀)	Based on available data the classification criteria are not met.	
ATE oral (mg/kg)	36,874.35	
Acute toxicity - dermal Notes (dermal LD ₅₀)	Based on available data the classification criteria are not met.	
Acute toxicity - inhalation Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.	
Skin corrosion/irritation Skin corrosion/irritation	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.	
Respiratory sensitisation Respiratory sensitisation	Based on available data the classification criteria are not met.	
Skin sensitisation Skin sensitisation	Based on available data the classification criteria are not met. The product contains a small amount of a sensitising substance which may cause an allergic reaction in sensitive individuals.	
Germ cell mutagenicity Summary	Based on available data the classification criteria are not met.	
Carcinogenicity Carcinogenicity	Based on available data the classification criteria are not met.	
Reproductive toxicity Reproductive toxicity - fertility	Based on available data the classification criteria are not met.	
Reproductive toxicity - development	Based on available data the classification criteria are not met.	
Specific target organ toxicity -	single exposure	
STOT - single exposure	Based on available data the classification criteria are not met.	
Specific target organ toxicity -	repeated exposure	
STOT - repeated exposure	Based on available data the classification criteria are not met.	
Aspiration hazard Aspiration hazard	Based on available data the classification criteria are not met.	

General information	Curing process releases 2-pentanone oxime. 2-Pentanone oxime is classified as harmful if swallowed, causes serious eye irritation, may cause damage to blood/spleen through prolonged/repeated exposure.
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.
Route of exposure	Skin and/or eye contact
Target organs	Skin
Medical symptoms	Allergic rash.
Medical considerations	Skin disorders and allergies.

Toxicological information on ingredients.

O,O',O"-(Methylsilylidyne)trioxime 2-pentanone

	Acute toxicity - or	al	
	Summary		Harmful if swallowed.
	Acute toxicity oral mg/kg)	(LD₅₀	1,234.0
	Species		Rat
	ATE oral (mg/kg)		1,234.0
	Acute toxicity - dermal		
	Notes (dermal LD	50)	LD₅₀ >1782 mg/kg, Dermal, Rat Read-across data.
	Serious eye damage/irritation		
	Summary		Causes serious eye irritation.
	Serious eye damage/irritation		OECD 405 Acute eye irritation / corrosion: Irritating (rabbit)
SECTION 1	2: Ecological inform	nation	
Ecotoxicity			-linked state not soluble in water. Easily separable from water by filtration. Curing releases 2-pentanone oxime. 2-Pentanone oxime is classified as harmful to aquatic long lasting effects.
12.1. Toxici	ty		
Toxicity		There are no data for the product.	
Acute aquat	tic toxicity		

Based on available data the classification criteria are not met.

Chronic aquatic toxicity Summary

Summary

Based on available data the classification criteria are not met.

Ecological information on ingredients.

O,O',O"-(Methylsilylidyne)trioxime 2-pentanone

Aouto ogu	atia taviaitu		
	atic toxicity		
Acute toxic	city - fish	LC₅₀, 96 hours: >113 mg/l, Oncorhynchus mykiss (Rainbow trout) Read-across data.	
Acute toxic invertebrat	city - aquatic res	EC₅₀, 48 hours: >113 mg/l, Daphnia magna Read-across data.	
Acute toxic plants	city - aquatic	EC₅₀, 72 hours: 100 mg/l, Pseudokirchneriella subcapitata	
12.2. Persistence and d	egradability		
Persistence and degrad	ability The pro	oduct is not readily biodegradable.	
Ecological information of	on ingredients.		
		O,O',O"-(Methylsilylidyne)trioxime 2-pentanone	
Persistenc degradabil		Not readily biodegradable.	
12.3. Bioaccumulative p	otential		
Bioaccumulative potent	al Bioaccu	umulation is unlikely to be significant because of the low water-solubility of this product.	
Partition coefficient	No info	rmation available.	
Ecological information on ingredients.			
		O,O',O"-(Methylsilylidyne)trioxime 2-pentanone	
Bioaccum	ulative potential	BCF: 3.103 L/kg, QSAR	
12.4. Mobility in soil			
Mobility	The pro	oduct is insoluble in water.	
Ecological information of	n ingredients.		
O,O',O"-(Methylsilylidyne)trioxime 2-pentanone			
Adsorption/desorption - Koc: 20.9 @ 20°C coefficient			
12.5. Results of PBT and vPvB assessment			
Results of PBT and vPv assessment	B This pro	oduct does not contain any substances classified as PBT or vPvB.	
12.6. Other adverse effe	ects		
Other adverse effects	Not kno	own.	
SECTION 13: Disposal considerations			
13.1. Waste treatment r	nethods		
General information	When h conside	nandling waste, the safety precautions applying to handling of the product should be pred.	
Disposal methods	Dispose	Dispose of contents/container in accordance with national regulations.	
Waste class	Recom	mended 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

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. 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) 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) (as amended). 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 (as amended).	
Guidance	Workplace Exposure Limits EH40.	

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Liquasil One

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	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.
	ATE: Acute Toxicity Estimate.
	BCF: Bioconcentration Factor.
	CAS: Chemical Abstracts Service.
	DNEL: Derived No Effect Level.
	EC₅₀: 50% of maximal Effective Concentration.
	GHS: Globally Harmonized System. IATA: International Air Transport Association.
	IBC: International Code for the Construction and Equipment of Ships carrying Dangerous
	Chemicals in Bulk (International Bulk Chemical Code).
	ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
	IMDG: International Maritime Dangerous Goods.
	Kow: Octanol-water partition coefficient.
	LC₅₀: Lethal Concentration to 50 % of a test population.
	LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
	LOAEC: Lowest Observed Adverse Effect Concentration.
	LOAEL: Lowest Observed Adverse Effect Level.
	LOEC: Lowest Observed Effect Concentration.
	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
	NOAEC: No Observed Adverse Effect Concentration.
	NOAEL: No Observed Adverse Effect Level.
	NOEC: No Observed Effect Concentration.
	PBT: Persistent, Bioaccumulative and Toxic substance.
	PNEC: Predicted No Effect Concentration.
	REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
	RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
	SVHC: Substances of Very High Concern.
	vPvB: Very Persistent and Very Bioaccumulative.
Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/ SDS from supplier.
Revision comments	Revised formulation. Revised classification.
Revision date	11/01/2022
Revision	3
Supersedes date	11/01/2022
SDS number	20362
SDS status	Approved.
Hazard statements in full	H302 Harmful if swallowed. H319 Causes serious eye irritation.

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