



SAFETY DATA SHEET ASBESTOSEAL 20

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

1.1. Product identifier

Product name ASBESTOSEAL 20

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

Identified uses Sprayable/Brushable 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

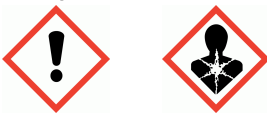
2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified
Health hazards Skin Sens. 1 - H317 Asp. Tox. 1 - H304
Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.

Precautionary statements P280 Wear protective gloves.
P301 IF SWALLOWED:
P331 Do NOT induce vomiting.
P313 Get medical advice/attention.

Supplemental label information EUH066 Repeated exposure may cause skin dryness or cracking.

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Contains HYDROCARBONS, C11-C14, isoalkanes, cyclics, <2% aromatics, METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE

2.3. Other hazards**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

HYDROCARBONS, C11-C14, isoalkanes, cyclics, <2% aromatics	10-30%
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CAS number: —	EC number: 927-285-2
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Classification

Asp. Tox. 1 - H304

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

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

STOT RE 2 - H373

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

Eye Dam. 1 - H318

Skin Sens. 1 - H317

STOT RE 2 - H373

3-(2-AMINOETHYLAMINO)-PROPYLTRIMETHOXYSILANE	<1%
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CAS number: 1760-24-3	EC number: 217-164-6
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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 at once. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately. Danger of aspiration.

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Skin contact Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. In the event of any sensitisation symptoms developing, ensure further exposure is avoided.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. 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 Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Ingestion If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions.

Skin contact Prolonged contact may cause redness, irritation and dry skin. May cause an allergic skin reaction.

Eye contact May cause temporary eye irritation.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. 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.

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

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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 Sprayable/Brushable Coating

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient comments No DNEL or PNEC values available.

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

Provide adequate ventilation. 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 hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

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9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Various colours.
Odour	Mild (or faint).
Odour threshold	No data available.
pH	Not applicable.
Melting point	EC No.: 927-285-2: < -60°C
Initial boiling point and range	EC No.: 927-285-2: >185 - <255°C @ 1013 hPa
Flash point	EC No.: 927-285-2: 67°C CC (Closed cup).
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: EC No.: 927-285-2: 0.5 % Upper flammable/explosive limit: EC No.: 927-285-2: 5 %
Vapour pressure	EC No.: 927-285-2: 0.035 kPa @ 20°C
Vapour density	No data available.
Relative density	~ 1.0 @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	EC No.: 927-285-2: 232°C
Decomposition Temperature	Not determined.
Viscosity	≤ 50 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.

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

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Materials to avoid Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects There are no data available on this 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 The product is classified as having an aspiration hazard.

Inhalation

May cause lung injury. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Ingestion

Harmful: may cause lung damage if swallowed.

Skin contact

May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause dryness of the skin.

Eye contact

May cause temporary eye irritation.

Medical considerations

Skin disorders and allergies.

Toxicological information on ingredients.

HYDROCARBONS, C11-C14, isoalkanes, cyclics, <2% aromatics

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >15000 mg/kg, Oral, Rat

Acute toxicity - dermal

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Notes (dermal LD₅₀)	LD ₅₀ >= 3160 mg/kg, Dermal, Rabbit
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	LC ₅₀ > 4951 mg/l/4hr/day, Inhalation, Rat
<u>Skin corrosion/irritation</u>	
Animal data	Not irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Not irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEL >5000 mg/kg, Oral, Rat
<u>Aspiration hazard</u>	
Aspiration hazard	Aspiration hazard if swallowed.

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity There are no data for the product.

Ecological information on ingredients.

HYDROCARBONS, C11-C14, isoalkanes, cyclics, <2% aromatics

Acute toxicity - fish	LL ₅₀ , 96 hours: >1000 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	LL ₅₀ , 48 hours: >1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL ₅₀ , 72 hours: >1000 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EL ₅₀ , 48 hours: >1000 mg/l, Bacteria
Chronic toxicity - fish early life stage	NOELR, 28 days: 0.103 mg/l, Onchorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 1.0 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

Ecological information on ingredients.

ASBESTOSEAL 20**HYDROCARBONS, C11-C14, isoalkanes, cyclics, <2% aromatics**

Biodegradation Water - Degradation 77.6%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility The product is insoluble in water.

Ecological information on ingredients.**HYDROCARBONS, C11-C14, isoalkanes, cyclics, <2% aromatics**

Surface tension 26 mN/m @ 25°C

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 None 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.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class HP5 STOT / Aspiration toxicity HP13 Sensitising Recommended EWC Code 08 04 09*

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

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Not applicable.

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 Not applicable.

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 date 03/12/2015

Supersedes date 25/02/2013

SDS number 10410

Hazard statements in full H304 May be fatal if swallowed and enters airways.
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.

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.