

Safety Data Sheet

#89997446 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
3-Acryloxypropyl(trimethoxy)silane (stabilized with BHT)	4369-14-6	C9H18O5Si	10	07 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name	3-Acryloxypropyl(trimethoxy)silane (stabilized with BHT)
CAS number	4369-14-6
EC / EINECS number	419-560-6 / 610-134-7
Chemical formula	C9H18O5Si
Molecular weight	234.32
SMILES	CO[Si](CCCOC(=O)C=C)(OC)OC

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

For research use, laboratory use and manufacture of chemicals only. Not for human or animal use.

1.3 Details of the supplier of the safety data sheet

Molekula Limited
1 Millennium Way, Newton Aycliffe
Durham, DL5 6JW, United Kingdom
info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Acute Tox. 4; H302
Skin Corr. 1B; H314
Skin Sens. 1; H317
Acute Tox. 4; H332
STOT SE 3; H335
Aquatic Chronic 3; H412

2.2 Label elements



DANGER

CODE	HAZARD STATEMENT
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H302	Harmful if swallowed
H314 (sub cat. 1B)	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

CODE	PRECAUTIONARY STATEMENT
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P260	Do not breathe dust/fume/gas/mist/vapours/spray
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

2.3 Other hazards

Does not contain components considered to have endocrine-disrupting properties. Does not meet PBT or vPvB criteria under REACH Annex XIII.

SECTION 3

Composition / information on ingredients**3.1 Substances**

Name	3-Acryloxypropyl(trimethoxy)silane (stabilized with BHT)
CAS number	4369-14-6
EC number	419-560-6 / 610-134-7
Concentration / purity	c. 100% 3-Acryloxypropyl(trimethoxy)silane (CAS 4369-14-6): H302, H314b, H317, H332, H335, H417
Classification according to Regulation (EC) No 1272/2008	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Acute Tox. 4; H332 STOT SE 3; H335 Aquatic Chronic 3; H412
Hazard statements	H302, H314 (sub cat. 1B), H317, H332, H335, H412
Acute toxicity estimate (ATE)	<i>No data available</i>
Impurities / stabilising additives	BHT (CAS: 128-37-0): H410

SECTION 4

First-aid measures**4.1 Description of first aid measures**

Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
Skin contact	Wash with plenty of water. Continue to rinse for at least 15 minutes and seek medical attention.
Eye contact	Remove contact lenses if present. Rinse eyes with water. Continue to rinse for at least 15 minutes and seek medical attention
Ingestion	After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

Unsuitable extinguishing media None known

5.2 Special hazards arising from the substance or mixture

Carbon oxides

silicon oxides

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Absorb spillage with a suitable absorbent material.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs.

Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Remove contaminated clothing and launder thoroughly before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature 2 to 8 °C

Conditions for safe storage (incompatibilities) Hygroscopic. Store under inert gas.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL) *Not applicable*

DNEC/PNEC data *Not applicable*

8.2 Exposure controls

Eye / face protection Safety glasses
Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.

Skin / hand protection Gloves: Nitrile Rubber, 0.11mm (480 mins).

Respiratory protection Full-face respirator
Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

Other protection *No data available*

Environmental exposure controls *No data available*

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state Liquid
DERIVED FROM: LITERATURE

Colour Colourless to pale yellow
DERIVED FROM: LITERATURE

Odour Not known
DERIVED FROM: LITERATURE

Melting / freezing point *Not applicable*

Boiling point *Not applicable*

Flammability *No data available*

Lower and upper explosion limit	<i>No data available</i>
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Flash point	123 °C
	DERIVED FROM: LITERATURE

Auto-ignition temperature	<i>Not applicable</i>
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Decomposition temperature	<i>No data available</i>
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pH	<i>Not applicable</i>
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Acidity	Neutral
	DERIVED FROM: LITERATURE

Kinematic viscosity	<i>No data available</i>
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Solubility	<i>Not applicable</i>
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Partition coefficient n-octanol/water (log value)	<i>Not applicable</i>
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Vapour pressure	<i>Not applicable</i>
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Density (g/mL)	1.055 g/mL
	DERIVED FROM: LITERATURE

Relative vapour density	<i>No data available</i>
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Particle characteristics	<i>No data available</i>
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9.2 Other information

No data available

SECTION 10

Stability & reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under the prescribed storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid moisture

10.5 Incompatible materials

Strong acids. Strong oxidising agents. Strong bases (alkalis)

10.6 Hazardous decomposition products

See section 5

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD50 / LC50) Information on hazard classes as defined in Regulation (EC) No 1272/2008

3-Acryloxypropyl(trimethoxy)silane:
LD50 (Oral) - Rat - 1060 mg/kg
ATE (Inhal) - 11 mg/l (vapour)

BHT:
LD50 (Oral) - Rat - 890 mg/kg

Skin corrosion / irritation Causes severe burns

Eye corrosion / irritation Causes serious eye damage

Respiratory / skin sensitisation May cause an allergic skin reaction

Carcinogenicity Not classified

Mutagenicity Not classified

Reproductive toxicity Not classified

STOT (single / repeated exposure) Single exposure: May cause respiratory irritation

Aspiration hazard Not classified

11.2 Information on other hazards

Not classified

SECTION 12

Ecological information

12.1 Toxicity

3-Acryloxypropyl(trimethoxy)silane:
EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h
static test NOEC - Pseudokirchneriella subcapitata - 31.25 mg/l - 72 h

BHT:
LC50 (Oryzias latipes (Japanese medaka)) - 5 ppm - 48 h
LC50 (Oryzias latipes (Japanese medaka)) - 1 .1 mg/l - 96 h
EC50 (Daphnia magna (Water flea)) - 0,84 mg/L - 48 h
EC50 (Selenastrum capricornutum (green algae)) - > 0,24 mg/l - 72 h

12.2 Persistence and degradability

aerobic - Exposure time 28 d Result: 41 % - Not readily biodegradable.

12.3 Bioaccumulative potential

Not applicable

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with local/national regulations

SECTION 14

Transport information

14.1 UN number or ID number

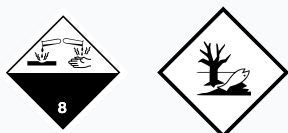
UN1760

14.2 UN proper shipping name

CORROSIVE LIQUID, N.O.S.

14.3 Transport hazard class(es)

8



14.4 Packing group

II

14.5 Environmental hazards

Marine pollutant

14.6 Special precautions for user

Special precautions for user Handle in accordance with good industrial hygiene and safety practice

Transport category 2

Tunnel code (E)

Packing instruction (ADR) P001

Packing instruction (IMDG) P001

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

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

Substance-specific regulations (e.g. licences) *No data available*

REACH code Y110

ECHA notification *Not applicable*

15.2 Chemical safety assessment

Not applicable

SECTION 16

Other information

Revision notes / other information

Harmonised Entry: ATP01 607-630-00-0
Previous SDS ver. 1.0 published 16th May 2019
Hazard classification and labelling according to Regulation (EC) 1272/2008
All eye/face protection should comply with EN ISO 16321-1:2022
Respiratory equipment: Reusable air-purifying respirator (APR)
Filter Type: ABEK
Standard: EN 14387
National Regulations:
-Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances
Other regulations, limitations and legal regulations:
-Directive 94/33/EC- The protection of young people at work

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.