

SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH) &
COMMISSION REGULATION (EU) 2015/830

Version 2.02

Product name 3-Aminopropyltriethoxysilane



Revision date 01-June-2020

Section 1 - Identification of the material and supplier

1.1 Product identifier

Product name 3-Aminopropyltriethoxysilane

Product Number SICOSIL® SICO-A110

CAS No. 919-30-2

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

Recommended use: industrial use

Uses advised against: Not for food, drug, pesticide or biocidal product use

1.3 Details of the supplier of the safety data sheet

Manufacturer: Sico Performance Material (Shandong) Co., Ltd

Address: Jining Chemical Industrial Park, Jinxiang, Shandong, China

Telephone: +86 537 8010989

Fax: +86 537 8010989

E-Mail: info@silanechem.com

1.4 Emergency telephone number

Emergency response service: +86 537 8017875

Section 2 - Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin corrosion/irritation, Category 1B – H314

Acute toxicity – oral, Category 4 – H302

Skin sensitization, Category 1 – H317

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word :

Danger

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

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Precautionary statement(s)

H317 May cause an allergic skin reaction.

H317

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P260

P280 Wear protective gloves/ eye protection/ face protection.

P280

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P301+P330+P331

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P303+P361+P353

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P305+P351+P338

P310 Immediately call a POISON CENTER or doctor/ physician.

P310

2.3 Other hazards - none

Section 3 - Composition/information on ingredients

3.1 Substances

Synonyms: (3-Aminopropyl)triethoxysilane
3-(Triethoxysilyl)propylamine

Formula C₉H₂₃NO₃Si

Molecular Weight 221.37 g/mol

Component	Concentration
3-Aminopropyltriethoxysilane	
CAS-No. 919-30-2	-
EC-No. 213-048-4	-

3.2 Mixtures

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Not Relevant

Section 4 -First-aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x), silicon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

Section 6 - Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

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For disposal see section 13.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of Electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Moisture sensitive.

7.3 Specific end uses

no data available

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters

DNEL/DMEL (workers)

Inhalation	Systemic effects - Long-term	59 mg/m ³
Inhalation	Systemic effects - Acute	59 mg/m ³
Dermal	Systemic effects - Long-term	8.3 mg/kg bw/day
Dermal	Systemic effects - Acute	8.3 mg/kg bw/day

DNEL/DMEL (general population)

Inhalation	Systemic effects - Long-term	17.4 mg/m ³
Inhalation	Systemic effects - Acute	17.4 mg/m ³
Dermal	Systemic effects - Long-term	5 mg/kg bw/day
Dermal	Systemic effects - Acute	5 mg/kg bw/day
Oral	Systemic effects - Long-term	5 mg/kg bw/day

PNEC

PNEC aqua (freshwater)	0.33 mg/l
PNEC aqua (marine water)	0.033 mg/l
PNEC aqua (intermittent releases)	3.3 mg/l
PNEC sediment	0.26 mg/kg wwt
PNEC Soil	0.04 mg/kg wwt
PNEC STP	13 mg/l
PNEC Oral	44.4 mg/kg food

8.2 Exposure controls

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Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal Technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be Selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face Respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9 - Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Colourless liquid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting point/freezing	$\leq -70^{\circ}\text{C}$
Initial boiling point and	493 K @ 101 325 Pa
Flash point	93°C @ 101.3kPa
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	2 Pa @ 20°C
Vapour density	no data available
Relative density	0.95 @ 20°C

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Water solubility	5400 mg/l @ 20°C (QSAR)
Partition coefficient: noctanol/ water	1.7 @ 20°C (QSAR)
Autoignition temperature	270°C @ 100.93 – 101.07kPa (EU A15)
Decomposition temperature	no data available
Viscosity	2 mPa.s @ 20°C
Explosive properties	not explosive
Oxidizing properties	Not oxidising

9.2 Other safety information

no data available

Section 10 - Stability and Reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Strong acids, Strong oxidizing agents, Water, Bases, Alcohols, Peroxides

10.6 Hazardous decomposition products

Other decomposition products - no data available

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

LD50 (Oral): 1490 mg/kg bw (females)

LD50 (Dermal) : 4076 mg/kg bw

LC50 (inhalation): >16 ppm (>144 mg/m³)

Skin corrosion/irritation

Skin irritation / corrosion: corrosive.

Serious eye damage/eye irritation

Eye irritation: corrosive.

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Respiratory or skin sensitization

Skin sensitization: sensitizing.

Germ cell mutagenicity

Genetic toxicity: negative.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Effects on fertility - NOAEL: 600 mg/kg bw/day

Developmental toxicity - NOAEL: 100 mg/kg bw/day

Specific target organ toxicity - single exposure

Not classified.

Specific target orgtoxicity - repeated exposure

Not classified.

Aspiration hazard

Not classified.

Section 12 - Ecological Information

12.1 Toxicity

LC50 (96 h): > 934 mg/l *Danio rerio*

EC50 (48 h): 331 mg/l *Daphnia magna*

EC50 (72 h): > 1000 mg/l *Desmodesmus subspicatus*

12.2 Persistence and degradability

Hydrolysis half-life: 8.5 h at pH 7 and 25°C (OECD 111)

Biodegradation in water: screening tests: 67% DOC removal in 28 d (EU method C4-A)

12.3 Bioaccumulative potential

BCF: 3.4 (OECD 305)

12.4 Mobility in soil

Adsorption/desorption: Low potential for adsorption (parent and hydrolysis products).

12.5 Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB

12.6 Other adverse effects

no data available

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Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Section 14 - Transport Information

14.1 UN number

ADR/RID: 3267

IMDG: 3267

IATA: 3267

14.2 UN proper shipping name

ADR/RID: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S (3-Aminopropyltriethoxysilane)

IMDG: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S (3-Aminopropyltriethoxysilane)

IATA: Corrosive liquid, basic,organic,n.o.s (3-Aminopropyltriethoxysilane)

14.3 Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

no data available

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No REACH Annex XVII restrictions

Not on the REACH Candidate List

Not on the REACH Annex XIV List

15.2 Chemical Safety Assessment

A chemical safety assessment has been carried out

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Section 16 – Other Information

Further information:

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

- End of Safety Data Sheet

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