

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

ELOTEX SRT100

Version 1

Revision Date 01.04.2015

Print Date 13.04.2015

GB / EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name : ELOTEX SRT100

Chemical characterization : Silane-based additive

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

Use of the Substance/Mixture : Specific use(s): For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company : Akzo Nobel
Chemicals AG
Performance Additives
Industriestrasse 17a
CH 6203 Sempach Station
Switzerland

Telephone : +41414696969
Telefax : +41414696900
E-mail address : RegulatoryAffairs@akzonobel.com

1.4 Emergency telephone number

Emergency telephone number : Emergency AkzoNobel Chemicals-Deventer-NL T +31 570 679211

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)
Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling:

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EUH210

Safety data sheet available on request.

2.3 Other hazards

Risk of dust explosion.

No further data available.

PBT and vPvB assessment : Not classified as PBT or vPvB

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous substance

Chemical Name	PBT vPvB OEL	CAS-No. EC-No. REACH No.	Classification (REGULATION (EC) No 1272/2008)	Classification (67/548/EEC)	Concentration [%]
Tetraethyl silicate		78-10-4 201-083-8 01- 2119496195- 28	Flam. Liq. 3; H226 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335	R10 Xn; R20 Xi; R36/37	1 - 3

For the full text of the H-Statements mentioned in this Section, see Section 16.

For the full text of the R-phrases mentioned in this Section, see Section 16.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
Treat symptomatically.
- If inhaled : Remove to fresh air.
Keep patient warm and at rest.
Rinse nose and mouth with water.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash the skin immediately with soap and water.
- In case of eye contact : Rinse with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known or expected.
- Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Water mist
Foam

Unsuitable extinguishing media : Carbon dioxide (CO₂)
High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting / Specific hazards arising from the chemical : Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Combustion products : Fluorine compounds
Silicon oxides
Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Further information : Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up / Methods for containment : Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Additional advice : For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
Avoid creating dust.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against : Provide appropriate exhaust ventilation at places where dust

fire and explosion is formed.
No sparking tools should be used.
Take measures to prevent the build up of electrostatic charge.

Dust explosion class : St1

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in a dry place.
Store at room temperature in the original container.
Keep container tightly closed.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Dust		TWA	4 mg/m3	1997-01-01	GB EH40	Total dust

STEL: Short term exposure limit

TWA: Time Weighted Average

8.2 Exposure controls

Engineering Controls

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of dust, vapour or aerosol formation use a respirator with an approved filter.
Half mask with a particle filter P2 (EN 143)

Hand protection : For prolonged or repeated contact use protective gloves.
Protective gloves complying with EN 374.

Eye protection : Tightly fitting safety goggles
Safety glasses with side-shields conforming to EN166

Skin and body protection : Lab coat
Remove and wash contaminated clothing before re-use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of workday.
When using do not eat, drink or smoke.

Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form : powder

Colour : white

Odour : odourless

Odour Threshold : No data available

Safety data

pH : 6.0 - 9.0 at 10 % solution

Melting point/range : Not applicable

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Ignition temperature : > 180 °C
Method: Auto-ignition of a dust cloud according to EN 50281-2-1

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : 15,000 mg/m³

Upper explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : Not applicable

Bulk density : 250 - 450 kg/m³

Water solubility : dispersible

Solubility in other solvents : Not applicable

Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Dust explosion class	: St1
Explosive properties	: Dust may form explosive mixture in air.
Oxidizing properties	: Not classified as oxidising.

9.2 Other information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

Thermal decomposition : No data available

SECTION 11: TOXICOLOGICAL INFORMATION

Product information:

Hazard Summary

Inhalation	: Product dust may be irritating to the respiratory system.
Skin	: Product dust may be irritating to skin.
Eyes	: Product dust may be irritating to eyes.
Ingestion	: Gastrointestinal discomfort

May be harmful if swallowed.

Toxicology Assessment

Further information : No further data available.

11.1 Information on toxicological effects

Test result

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Toxicology data for the components:

Test result

Tetraethyl silicate

Acute oral toxicity : LD50: > 2,500 mg/kg
Species: Rat
Literature data.

Acute inhalation toxicity : LC50 (Rat): > 10 - 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Literature data.

Eye irritation : Result: Eye irritation

Target Organ Systemic : Exposure routes: Inhalation
Toxicant - Single exposure May cause respiratory irritation.

SECTION 12: ECOLOGICAL INFORMATION

Product information:

Ecotoxicology Assessment

Additional ecological information : None known.

12.1 Toxicity

Test result

Toxicity to fish : No data available

Components:

Test result

Tetraethyl silicate

Toxicity to fish : LC50: > 245 mg/l
Exposure time: 96 h
Species: Danio rerio (zebra fish)
Test Type: semi-static test
Literature data.

12.2 Persistence and degradability

Product information:

Biodegradability : Not readily biodegradable.

Components:**Tetraethyl silicate**

Biodegradability : Result: Readily biodegradable

12.3 Bioaccumulative potential

Product information:

Bioaccumulation : Bioaccumulation is unlikely.

Components:**Tetraethyl silicate**

Bioaccumulation : Bioaccumulation is unlikely.

12.4 Mobility in soil

Product information:

Mobility : No data available

Components:**Tetraethyl silicate**

Mobility : No data available

12.5 Results of PBT and vPvB assessment

Product information:

PBT and vPvB assessment : Not classified as PBT or vPvB

Components:**Tetraethyl silicate**

PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Product information:

Biochemical Oxygen Demand (BOD) : No data available

Components:**Tetraethyl silicate**

Biochemical Oxygen Demand (BOD) : No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste

handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 Proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: REGULATORY INFORMATION

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

Major Accident Hazard : ZEU_SEVES3
Legislation : Not applicable

Water contaminating class : WGK 1 slightly water endangering
(Germany)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

EU. REACH - Annex XVII : Banned and/or restricted:
• Tetraethyl silicate

Notification status

EINECS : YES. On the inventory, or in compliance with the inventory
AICS : YES. On the inventory, or in compliance with the inventory
DSL : NO. Not in compliance with the inventory
IECSC : YES. On the inventory, or in compliance with the inventory
ENCS : NO. Not in compliance with the inventory
KECI : YES. On the inventory, or in compliance with the inventory
NZIoC : YES. On the inventory, or in compliance with the inventory
PICCS : NO. Not in compliance with the inventory
CH INV : YES. On the inventory, or in compliance with the inventory
TSCA : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

Further information

This product is to be considered as a preparation according to EU-legislation.

15.2 Chemical Safety Assessment

Product information	: No information available.
Tetraethyl silicate	: A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H226	: Flammable liquid and vapour.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.

Full text of R-phrases referred to under sections 2 and 3

R10	Flammable.
R20	Harmful by inhalation.
R36/37	Irritating to eyes and respiratory system.

Explanations for possible abbreviations mentioned in section 2

PBT	: PBT: Persistent, bioaccumulative and toxic.
vPvB	: vPvB: Very persistent and very bioaccumulative.
OEL	: OEL: Occupational exposure limit.

Notification status explanation

EINECS	European Inventory of Existing Commercial Chemical Substances (EINECS)
AICS	Australia Inventory of Chemical Substances (AICS)
DSL	Canadian Domestic Substances List (DSL)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
NZIoC	New Zealand. Inventory of Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
CH INV	Switzerland. New notified substances and declared preparations
TSCA	United States TSCA Inventory

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.