

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name : ARTISIL SVS 100
Type of product : Solvent-based dispersion / solution.

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Industrial/Professional use spec : Industrial
For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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Nijverheidsweg 24
B-2240 Zandhoven
Belgique-België
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info@rewah.com

1.4. Emergency telephone number

Emergency number : +32 (0)70 245 245

Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+ 32 (0)70 245 245	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Repr. 1A H360
STOT RE 2 H373
Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Danger
Contains : Stannane, dioctylidi(lauroyloxy)-

ARTISIL SVS 100

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Hazard statements (CLP)	: H360 - May damage fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust, fume, gas, mist, spray, vapours. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P405 - Store locked up. P501 - Dispose of contents and container to a hazardous or special waste collection point.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
tetraethyl silicate; ethyl silicate	CAS-No.: 78-10-4 EC-No.: 201-083-8 EC Index-No.: 014-005-00-0 REACH-no: 01-2119496195-28	5 - < 10	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H335
Stannane, dioctylidi(lauroyloxy)-substance listed as REACH Candidate (Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety) substance with a Community workplace exposure limit	CAS-No.: 3648-18-8 EC-No.: 222-883-3 REACH-no: 01-2119979527-19	1 - < 3	Repr. 1A, H360D STOT RE 2, H373

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Repeated exposure may cause skin dryness or cracking.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Causes damage to organs (Central nervous system.) through prolonged or repeated exposure. Symptoms may include dizziness, headache, nausea and loss of co-ordination.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

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

On ingestion : . May result in aspiration into the lungs, causing chemical pneumonia.

ARTISIL SVS 100

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapour. Flammable liquid. and on exposure to temperature rise: pressure rise and possible bursting of container.

5.3. Advice for firefighters

- Precautionary measures fire : Avoid (reject) fire-fighting water to enter environment. Use water spray or fog for cooling exposed containers. All fire-fighting personnel must wear safety suits.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing, gloves and eye/face protection.

6.1.2. For emergency responders

- Emergency procedures : Flammable liquid (flash-point between 23 °C and 60 °C, inclusive).

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Restrict liquid from spreading over surface with floating screens if possible.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Waste to eliminate according to chemical waste law.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling : No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing fume, gas, mist, spray, vapours. Use only outdoors or in a well-ventilated area. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Comply with applicable regulations equipment.
Storage conditions : Keep container closed when not in use. On contact with humidity, releases: Ethanol.

7.3. Specific end use(s)

No additional information available

ARTISIL SVS 100

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

tetraethyl silicate; ethyl silicate (78-10-4)	
Belgium - Occupational Exposure Limits	
Local name	Silicate d'éthyle
OEL TWA	86 mg/m ³
OEL TWA [ppm]	10 ppm
Stannane, dioctyldi(lauroyloxy)- (3648-18-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	0,1 mg/m ³
IOEL STEL	0,2 mg/m ³

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

tetraethyl silicate; ethyl silicate (78-10-4)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	56 mg/kg bodyweight/day
Long-term - systemic effects, dermal	56 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	85 mg/m ³
Long-term - local effects, inhalation	85 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	3 mg/kg bodyweight
Acute - systemic effects, inhalation	14 mg/m ³
Acute - local effects, inhalation	14 mg/m ³
Long-term - systemic effects, inhalation	14 mg/m ³
Long-term - systemic effects, dermal	3 mg/kg bodyweight/day
Long-term - local effects, inhalation	14 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,19 mg/l
PNEC aqua (marine water)	0,019 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,83 mg/kg dwt
PNEC sediment (marine water)	0,083 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	4000 mg/l

8.1.5. Control banding

No additional information available

ARTISIL SVS 100

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Where contact with eyes or skin is likely, wear suitable protection.

8.2.2.2. Skin protection

Skin and body protection:

If repeated skin contact or contamination of clothing is likely, protective clothing should be worn. Avoid contact with skin.

Hand protection:

Wear suitable gloves resistant to chemical penetration.

8.2.2.3. Respiratory protection

Respiratory protection:

Ensure exposure is below occupational exposure limits (where available). Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Half mask with gas filter Type A filter material. CEN standards EN 136, 140 and 405 provide breathing masks and EN 149 and 143 provide recommendations to use filters.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Product may not flow into sewer or superficial water.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 142 – 200 °C
Flash point	: ≈ 64 °C
Auto-ignition temperature	: > 200 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0,2 kPa
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Material nearly insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: ≈ 2,5 mm ² /s
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.

9.2. Other information

No additional information available

ARTISIL SVS 100

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 10: Stability and reactivity

10.1. Reactivity

See 10.3.

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture. Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

strong oxidising compounds.

10.6. Hazardous decomposition products

May release flammable gases. On contact with humidity, releases: Ethanol.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

tetraethyl silicate; ethyl silicate (78-10-4)	
LD50 oral rat	> 2500 mg/kg
LC50 Inhalation - Rat	16 mg/l/4h

Stannane, dioctyldi(lauroyloxy)- (3648-18-8)	
LD50 oral rat	6450 mg/kg
Skin corrosion/irritation	: Not classified pH: Not applicable.
Serious eye damage/irritation	: Not classified pH: Not applicable.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not classified

tetraethyl silicate; ethyl silicate (78-10-4)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

tetraethyl silicate; ethyl silicate (78-10-4)	
LOAEL (oral, rat, 90 days)	0,43 mg/kg bodyweight/day
NOAEL (oral, rat, 90 days)	10 mg/kg bodyweight/day

Stannane, dioctyldi(lauroyloxy)- (3648-18-8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

ARTISIL SVS 100

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Aspiration hazard : Not classified

ARTISIL SVS 100

Viscosity, kinematic : $\approx 2,5 \text{ mm}^2/\text{s}$

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Insoluble in water.
Ecology - water : Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

tetraethyl silicate; ethyl silicate (78-10-4)

LC50 - Fish [1]	> 245 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]	> 75 mg/l
EC50 72h - Algae [1]	> 100 mg/l
NOEC (chronic)	75 mg/l
NOEC chronic algae	$\leq 100 \text{ mg/l}$

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

ARTISIL SVS 100

Bioaccumulative potential : Not determined.

tetraethyl silicate; ethyl silicate (78-10-4)

Bioconcentration factor (BCF REACH) : 3,26

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component

Stannane, dioctyldi(lauroyloxy)- (3648-18-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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12.6. Other adverse effects

Additional information : Avoid release to the environment .

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Forbidden through garbage can or sewerage, follow the next guidelines: 75/442/EG & 91/689/EG .

ARTISIL SVS 100

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Additional information : Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials : Hazardous waste due to toxicity. Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number		
Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Not applicable	Not applicable	Not applicable
No supplementary information available		

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list: Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety (EC 222-883-3, CAS 3648-18-8)

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

No additional information available

ARTISIL SVS 100

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
Repr. 1A	Reproductive toxicity, Category 1A
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Repr. 1A	H360	Calculation method
STOT RE 2	H373	Annex VII conversion

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.