

According to directive 1907/2006/EC, 2020/878

Page 1 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

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

1.1 Product identification:

Product name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

UFI code: XM30-508J-8003-MT9W

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

Usage: Hardener. Catalyst.

Uses advised against: Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet

Responsible distributor: ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency telephone number:

For Belgium: Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to Directive (EC) No 1272/2008 and its amendments.

The product is classified according to the applicable legislation.

Classification in accordance with Regulation (EC) No 1272/2008 as amended.

Health hazards

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Eye Irrit. 2: Causes serious eye irritation.

Flam. Liq. 3: Flammable liquid and vapour.

Muta. 2: Suspected of causing genetic defects.

Repr. 1B: May damage fertility or the unborn child

Skin Sens. 1: May cause an allergic skin reaction.

STOT RE 1: Causes damage to organs through prolonged or repeated exposure.

STOT SE 1: Causes damage to organs.

2.2 Label elements:

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



Hazard pictograms:

Signal word:

Danger.

Contains:

- ✓ Dibutyltin dilaurate, dibutyl[bis(dodecanoyloxy)] stannane

According to directive 1907/2006/EC, 2020/878

Page 2 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

Hazard statements:

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H360 May damage fertility or the unborn child

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see ... on this label).

P370+P378 In case of fire: Use waterjet, foam, carbon dioxide or dry chemical for extinction.

2.3 Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain any components believed to have endocrine disrupting properties, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 on level 0.1% or higher.

Toxicological information:

The substance/mixture does not contain any components believed to have endocrine disrupting properties, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 on level 0.1% or higher.

SECTION 3: Composition and information on ingredients**3.2 Mixtures:**

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No.

1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Chemical name	CAS number EC number Index number REACH registration number	Concentration %	Classification
Dibutyltin dilaurate, dibutyl[bis(dodecanoyloxy)]stannane	77-58-7 201-039-8 050-030-00-3 01-2119496068-27	10-25%	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Eye Irrit. 2, H319 Muta. 2, H341 Repr. 1B, H360 Skin Sens. 1, H317 STOT RE 1, H372 STOT SE 1, H370
[1] tetraethyl silicate, ethyl silicate	78-10-4 201-083-8 014-005-00-0 01-2119496195-28	1-10%	Acute Tox. 4 *, H332 Eye Irrit. 2, H319 Flam. Liq. 3, H226 STOT SE 3, H335

The full text of the H phrases can be found in Section 16 of this safety data sheet.

* See Regulation (EC) No 1272/2008, Annex VI, section 1.2.

(1) Substance with a European Union exposure limit in the workplace (see section 8.1).

According to directive 1907/2006/EC, 2020/878

Version 1.6

Revision Date: 24-10-2022

Page 3 from 14

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

SECTION 4: First aid measures

4.1 Description of first aid measures:

Immediate medical attention is required.

It is recommended to move the affected person out of the exposure area.

Delayed effects may occur after the exposure to the product.

Inhalation.

Take the victim into open air; keep them warm and calm.

If breathing is irregular or stops, perform artificial respiration.

Do not administer anything orally.

If unconscious, place them in a suitable position and seek medical assistance.

The use of personal protective equipment is recommended for people providing first aid (see section 8).

Eye contact.

Remove contact lenses, if present and if it is easy to do.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Don't let the person to rub the affected eye.

Skin contact.

Remove contaminated clothing.

Wash skin vigorously with water and soap or a suitable skin cleaner.

NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention.

Keep calm.

NEVER induce vomiting.

The use of personal protective equipment is recommended for people providing first aid (see section 8).

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

Toxic Product, accidental contact may result in serious respiratory difficulties, alteration of the central nervous system and in extreme cases, unconsciousness. Immediate medical assistance is required.

Long-term chronic exposure may result in injury to certain organs or tissues.

It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

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

Request immediate medical attention.

Never administer anything orally to persons who are unconscious.

Do not induce vomiting.

If the person vomits, clear the respiratory tract.

Keep the person comfortable.

Turn him/her over to the left side and stay there while waiting for medical care.

SECTION 5: Fire-fighting measures

Flammable product, the necessary prevention measures should be taken in order to avoid risks, In case of fire, the following measures are recommended:

5.1 Extinguishing media:

Suitable extinguishing media:

Extinguisher powder or CO2.

In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish.

In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture

According to directive 1907/2006/EC, 2020/878

Page 4 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- ✓ Flammable vapours or gases.
- ✓ Toxic vapours or gases.

5.3 Advice for firefighters:

Use water to cool tanks, cisterns, or containers close to the heat source or fire.

Take wind direction into account.

Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Product residues and extinguishing media may contaminate the aquatic environment.

Follow the instructions given in the emergency or fire evacuation plan or plans if available.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

SECTION 6: Accidental release measures for the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

Eliminate possible ignition points and ventilate the area.

No smoking. Avoid breathing fumes.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling

The fumes are heavier than air and can spread across the ground.

They can form explosive mixtures with air.

Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits.

The product must only be used in areas where all unprotected flames and other ignition points have been eliminated.

Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product.

Operators must use anti-static footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire.

Do not use tools that can cause sparks.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers.

According to directive 1907/2006/EC, 2020/878

Page 5 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

They are not pressure-resistant containers.

Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities

Store according to local legislation.

Observe indications on the label.

Store the containers between 5 and 25°C, in a dry and well-ventilated place, far from sources of heat and direct solar light.

Keep far away from ignition points.

Keep away from oxidising agents and from highly acidic or alkaline materials.

Do not smoke.

Prevent the entry of non-authorized persons.

Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

Qualifying quantity (tonnes) for the application of:

Code	Description	Lower-tier requirements	Higher-tier requirements
H3	STOT SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE	50	200
E2	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Chronic 2	200	500
P5c	FLAMMABLE LIQUIDS	5.000	50.000

7.3 Specific end use:

Not available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters:****Occupational exposure limits**

Name	CAS No.	Country	Limit value	ppm	mg/m ³
tetraethyl silicate, ethyl silicate	78-10-4	European Union [1]	Eight hours	5	44
			Short term		
		Éire [2]	Eight hours	5	44
			Short term		
		United States [3] (Cal/OSHA)	Eight hours	10	
			Short term		
		United States [4] (NIOSH)	Eight hours	10	
			Short term		
		United States [5] (OSHA)	Eight hours	100	850
			Short term		

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[2] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

[3] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[4] According Compendium of Policy Documents and Statements adopted by National Institute for Occupational Safety and Health (NIOSH).

[5] According Occupational Health and Safety Standards and US Code of Federal Regulations adopted by US Occupational Safety and Health Administration (OSHA).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
tetraethyl silicate, ethyl silicate CAS No: 78-10-4 EC No: 201-083-8	DNEL (Workers)	Inhalation, Chronic, Local effects	85 (mg/m ³)
	DNEL (Workers)	Inhalation, Chronic, Systemic effects	85 (mg/m ³)

According to directive 1907/2006/EC, 2020/878

Page 6 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

8.2 Exposure controls:

Appropriate Technical Measures:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Individual protection measures, such as personal protective equipment:

Concentration: 100 %

Uses: Catalyst

Breathing protection:

PPE:

Filter mask for protection against gases and particles.

Characteristics:

«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.

CEN standards:

EN 136, EN 140, EN 405

Maintenance:

Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.

Observations:

Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.

Filter Type needed:

A2

Hand protection:

PPE:

Non-disposable protective gloves against chemicals.

Characteristics:

«CE» marking, category III. Check the list of chemicals for which the glove has been tested.

CEN standards:

EN 374-1, En 374-2, EN 374-3, EN 420

Maintenance:

A schedule for the periodical replacement of gloves should be established in order to guarantee their replacement before pollutants permeate them. The use of contaminated gloves could be more dangerous than not using gloves, since the pollutant can gradually accumulate in the glove's material.

Observations:

They are to be replaced whenever tears, cracks or deformations are observed or when exterior dirt could reduce their strength.

Material:

PVC (polyvinyl chloride)

Breakthrough time (min.):

> 480

Material thickness (mm):

0,35

Eye protection:

PPE:

Protective goggles with built-in frame.

Characteristics:

«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.

CEN standards:

EN 165, EN 166, EN 167, EN 168

Maintenance:

Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.

Observations:

Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.

Skin protection:

PPE:

Chemical protective clothing

According to directive 1907/2006/EC, 2020/878

Page 7 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

Characteristics:	«CE» marking, category III. Clothing should fit properly. The level of protection must be set according to a test parameter called BT (Breakthrough Time), which indicates how long it takes for the chemical to pass through the material.
CEN standards:	EN 464, EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.
Observations:	The protective clothing's design should facilitate correct positioning, staying in place without moving for the period of use expected, bearing in mind environmental factors as well as any movement or position the user might adopt while carrying out the activity.
PPE:	Anti-static safety footwear against chemicals.
Characteristics:	«CE» marking, category III. Check the list of chemicals against which the footwear is resistant.
CEN standards:	EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO 20345
Maintenance:	For correct maintenance of this kind of safety footwear, it is necessary to observe the instructions specified by the manufacturer. The footwear should be replaced as soon as any sign of damage is observed.
Observations:	The footwear should be cleaned regularly and dried when damp, although it should not be placed too close to a source of heat in order to avoid any sharp changes in temperature.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Yellowish
Odour:	Characteristic
Odour threshold:	Not applicable/Not available due to the nature/properties of the product
Melting point:	Not applicable/Not available due to the nature/properties of the product
Freezing point:	Not applicable/Not available due to the nature/properties of the product
Boiling point or initial boiling point and boiling range:	72°C (Estimation based on the indication of the Regulation (CE) N°1272/2008.)
Flammability:	Not applicable/Not available due to the nature/properties of the product
Lower explosion limit:	Not applicable/Not available due to the nature/properties of the product
Upper explosion limit:	Not applicable/Not available due to the nature/properties of the product
Flash point:	36°C
Auto-ignition temperature:	Not applicable/Not available due to the nature/properties of the product
Decomposition temperature:	Not applicable/Not available due to the nature/properties of the product
pH:	Not applicable (Substance/mixture is non-soluble (in water)).
Kinematic viscosity:	30
Solubility:	Not applicable/Not available due to the nature/properties of the product

According to directive 1907/2006/EC, 2020/878

Page 8 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

Hydrosolubility:	Insoluble
Liposolubility:	Not applicable/Not available due to the nature/properties of the product
Partition coefficient n-octanol/water (log value):	Not applicable/Not available due to the nature/properties of the product
Vapour pressure:	Not applicable/Not available due to the nature/properties of the product
Absolute density:	Not applicable/Not available due to the nature/properties of the product
Relative density:	0.95
Relative vapour density:	Not applicable/Not available due to the nature/properties of the product
Particle characteristics:	Not applicable/Not available due to the nature/properties of the product
9.2 Other information	
Viscosity:	Not applicable/Not available due to the nature/properties of the product
Explosive properties:	Not applicable/Not available due to the nature/properties of the product
Oxidizing properties:	Not applicable/Not available due to the nature/properties of the product
Dropping point:	Not applicable/Not available due to the nature/properties of the product
Blink:	Not applicable/Not available due to the nature/properties of the product

SECTION 10: Stability and reactivity

10.1 Reactivity:

If the storage conditions are satisfied, does not produce dangerous reactions.

10.2 Chemical stability:

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions:

Flammable liquid and vapour.

10.4 Conditions to avoid:

Avoid the following conditions:

- ✓ High temperature.
- ✓ Static discharge.
- ✓ Contact with incompatible materials.
- ✓ Avoid temperatures near or above the flash point. Do not heat closed containers. Avoid direct sunlight and heat, as these may cause a risk of fire.

10.5 Incompatible materials:

Avoid the following materials:

- ✓ Explosives materials.
- ✓ Toxic materials.
- ✓ Oxidizing materials.

10.6 Hazardous decomposition products:

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

SECTION 11: Toxicological information

IRRITANT MIXTURE.

Splashes in the eyes can cause irritation.

According to directive 1907/2006/EC, 2020/878

Version 1.6

Revision Date: 24-10-2022

Page 9 from 14

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

11.1 Information on toxicological effects:

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Toxicological information on the substances contained in the composition.

tetraethyl silicate, ethyl silicate (CAS 78-10-4 / EC 201-083-8)

LD50 (oral, rat) >2500 mg/kg OECD TG 423

LC50 (inhalation, rat) 10-16 mg/l (4h) OECD TG 403

Acute toxicity:

Not conclusive data for classification.

Skin corrosion/irritation:

Not conclusive data for classification.

Serious eye damage/eye irritation:

Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

Respiratory or skin sensitisation:

Product classified:

Skin sensitizer, Category 1: May cause an allergic skin reaction.

Mutagenicity in reproductive cells:

Product classified:

Mutagen, Category 2: Suspected of causing genetic defects.

Carcinogenicity:

Not conclusive data for classification.

Toxicity for reproduction:

Product classified:

Reproductive toxicant, Category 1B: May damage fertility or the unborn child

Specific Target Organ Toxicity - single exposure:

Product classified:

Specific target organ toxicity following a single exposure, Category 1: Causes damage to organs.

Specific Target Organ Toxicity - Repeated Exposure:

Product classified:

Specific target organ toxicity by repeated exposure, Category 1: Causes organ damage following prolonged or repeated exposure.

Aspiration hazard:

Not conclusive data for classification.

11.2 Information on other hazards.

Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: Ecological information

12.1 Toxicity:

tetraethyl silicate, ethyl silicate (CAS 78-10-4 / EC 201-083-8)

LC50 (fish) Brachydanio rerio >245 mg/kg (96h) OECD TG 203

EC50 (Aquatic invertebrates) Daphnia Magna >75 mg/l (48h) OECD TG 202

EC50 (Aquatic plants) Pseudokirchnerella subcapitata >100 mg/l (72h) OECD TG 201

12.2 Persistence and Degradability:

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present.

No information is available about persistence and degradability of the product.

12.3 Bioaccumulation:

No information is available regarding the bioaccumulation of the substances present.

According to directive 1907/2006/EC, 2020/878

Page 10 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

12.7 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13: Instructions for disposal

13.1 Waste treatment methods:

Do not dispose of in sewers or waterways.

Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: Information relating to carriage

14.1 UN number

UN No: UN1993

14.2 Proper load name according to UN Model Regulations

ADR: UN 1993, FLAMMABLE LIQUID, N.O.S. (CONTAINS TETRAETHYL SILICATE ETHYL SILICATE), 3, PG III, (D/E)

IMDG: UN 1993, FLAMMABLE LIQUID, N.O.S. (CONTAINS TETRAETHYL SILICATE ETHYL SILICATE / DIBUTYL TIN DILAURATE DIBUTYL[BIS(DODECANOYLOXY)] STANNANE), 3, PG III (36°C), MARINE POLLUTANT

ICAO/IATA: UN 1993, FLAMMABLE LIQUID, N.O.S. (CONTAINS TETRAETHYL SILICATE ETHYL SILICATE), 3, PG III

14.3 Transport hazard class(es)

Class(es): 3

14.4 Packing group

Packing group: III

14.5 Environmental hazards

Marine pollution: Yes

Dangerous for the environment

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-E

14.6 Special precautions for the user

Labels: 3



Hazard number: 30

ADR LQ: 5 L.

IMDG LQ: 5 L.

ICAO LQ: 10 L.

Provisions for transport in bulk ADR: Not permitted for transport in bulk according to ADR.

Transport by ship, FEm - Emergency sheets (F - Fire, S - Spills): F-E, S-E

Proceed according to point 6.

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

The product is not transported in bulk.

According to directive 1907/2006/EC, 2020/878

Page 11 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

SECTION 15: Legally required information

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

The product is not affected by Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18 / EU (SEVESO III): H3, E2, P5c.

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

Substances including by Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals:

Name: Dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane

CAS No: 77-58-7

EC No: 201-039-8

Annex I Part 1 - Subcategory: Industrial chemical for public use

Limitation : Severe restriction

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:

Designation of the substance, of the group of substances or of the mixture

20. Organostannic compounds

Conditions of restriction

1. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide in free association paint.
2. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as a biocide to prevent contamination by micro-organisms, plants or animals of:
 - (a) all vessels irrespective of their length intended for use in marine, coastal, estuarine and inland waters and lakes;
 - (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming;
 - (c) a totally or partially submerged appliance or equipment.
3. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.
4. Tri-substituted organotin:
 - a) Tri-substituted organostannic compounds such as tributyltin (TBT) compounds and triphenyltin (TPT) compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0, 1 weight % Tin.
 - b) Articles not complying with paragraph (a) shall not be placed on the market after 1 July 2010, except for articles that were already in use in the Community before that date.
5. Dibutyltin (DBT) compounds:
 - a) Dibutyltin (DBT) compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or article, or part thereof, is greater than the tin equivalent of 0.1%.
 - b) Articles and mixtures not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.
 - c) By way of derogation, points (a) and (b) shall not apply until 1 January 2015 to the following articles and mixtures for supply to the general public:
 - ✓ one- and two-component vulcanisation sealants at room temperature (RTV-1 and RTV-2 sealants) and adhesives,
 - ✓ paints and coatings containing DBT compounds as catalysts when applied to articles,
 - ✓ soft polyvinyl chloride (PVC) profiles, either on their own or coextruded with hard PVC,

According to directive 1907/2006/EC, 2020/878

Page 12 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

- ✓ fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications,
 - ✓ rainwater pipes, gutters and fittings for outside use, as well as covering material for roofs and facades,
 - d) By way of derogation, points (a) and (b) shall not apply to materials and articles regulated under Regulation (EC) No 1935/2004.
6. Dioctyltin (DOT) compound:
- a) Dioctyltin (DOT) compounds shall not be used after 1 January 2012 in the following articles for supply to, or use by, the general public, where the concentration in the article, or part thereof, is greater than the equivalent of 0.1 % w/w Tin:
 - ✓ Textile articles intended to come into contact with the skin,
 - ✓ gloves,
 - ✓ footwear or part of footwear designed to come into contact with the skin,
 - ✓ wall and floor covering,
 - ✓ childcare articles,
 - ✓ feminine hygiene products,
 - ✓ nappies,
 - ✓ two-component vulcanisation moulding kits at room temperature (RTV-2 moulding kits).
 - b) Articles not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out by the supplier for this substance/mixture.

SECTION 16: Other information

Full text of any H-statements appearing in section 3:

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H360 May damage fertility or the unborn child

H370 Causes damage to organs.

H372 Provoca daños en los órganos tras exposiciones prolongadas o repetidas.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 4 : Acute toxicity (Inhalation), Category 4

Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1

Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1

Aquatic Chronic 2 : Chronic effect to the aquatic environment, Category 2

Eye Irrit. 2 : Eye irritation, Category 2

Flam. Liq. 3 : Flammable liquid, Category 3

Muta. 2 : Mutagen, Category 2

Repr. 1B : Reproductive toxicant, Category 1B

Skin Sens. 1 : Skin sensitiser, Category 1

STOT RE 1 : Specific target organ toxicity following a repeated exposure, Category 1

STOT SE 1 : Specific target organ toxicity following a single exposure, Category 1

STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3

SAFETY DATA SHEET

According to directive 1907/2006/EC, 2020/878

Page 13 from 14

Version 1.6

Revision Date: 24-10-2022

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

Changes regarding to the previous version:

- ✓ Change in the hazard classification (SECTION 2.1).
- ✓ Addition of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2).

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

Physical hazards:	On basis of test data
Health hazards:	Calculation method
Environmental hazards:	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No.	Name	State
77-58-7	Dibutyltin dilaurate, dibutyl[bis(dodecanoyloxy)] stannane	Registered 13
78-10-4	tetraethyl silicate, ethyl silicate	Registered 13

Abbreviations and acronyms used:

ADR/RID:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CEN:	European Committee for Standardisation.
DMEL:	Derived minimum effect level, exposure level corresponding to a low risk, which should be considered an acceptable minimum.
DNEL:	Derived no-effect dose, degree of exposure to the substance below which adverse effects are not expected.
EC50:	Half maximum effective concentration.
PPE:	Personal protective equipment.
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organization.
IMDG:	International Maritime Code for Dangerous Goods.
LC50:	Lethal concentration, 50%.
LD50:	Lethal dose, 50%.
RID:	Regulations governing the international carriage of dangerous goods by rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2020/878.

Regulation (EC) No.1907 / 2006.

Regulation (EU) No.1272 / 2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this

SAFETY DATA SHEET



According to directive 1907/2006/EC, 2020/878

Version 1.6

Revision Date: 24-10-2022

Page 14 from 14

Print Date: 19-2-2025

Trade name: Silicone ASSYST for lead and tin – hardener (ESQUIM CAT-1301)

Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.