

SILISIL RTV ZCX 15-3 Catalyst Safety Data Sheet (April 2025)

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

1.1 Product identifier :

Product name: SILISIL ZCX 15-3 Catalyst
Article number: 90-29042

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

For industrial use only. Catalyst for condensation silicone.
Avoid use: in article for supply to, or use by, the general public.

1.3 Details of the supplier providing the safety data sheet:

Name: Silitech AG
Address: Worbstrasse 173
CH-3073 Gümligen
Switzerland
Phone: +41 (0) 31 398 50 70
Email: info@silitech.ch

1.4 Emergency number: +41 (0) 31 398 50 70 [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)
Skin Sens. 1A, H317 May cause an allergic skin reaction.
Repr. 2, H361 Suspected of damaging fertility or the unborn child.
STOT RE 2, H373 May cause damage to organs through prolonged or repeated exposure.
Adverse physicochemical, human health and environmental effects:
No other hazards

2.2 Label elements

Hazard pictograms:



Warning

Hazard statements:

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing vapours.

P280 Wear protective gloves and eye/face protection.

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

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

Dimethylbis[(1-oxoneodecyl)oxy]stannane

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3 Other hazards:

 No PBT, vPvB or endocrine disruptor substances present in concentration \geq 0.1%

Other Hazards:

No other hazards

SECTION 3: Composition/Information on ingredients

3.1 3.1 Substances:

Not applicable

3.2 Mixtures Hazardous ingredients:

Hazardous components within the meaning of the CLP regulation and related classification:

Quant.	name	Identification number	Classification
\geq 3% - < 5%	Dimethylbis[(1-oxoneodecyl)oxy]stannane	CAS: 68928-76-7 EC: 273-028-6 REACH No.: 01-21207703 24-57-XXXX	Acute Tox. 4 H302 Harmful if swallowed. Repr. 2 H361d Suspected of damaging the unborn child. STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure. Skin Irrit. 2 H315 Causes skin irritation.Skin Sens. 1A H317 May cause an allergic skin reaction.

			Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. Acute Toxicity Estimate: ATE - Oral 890 mg/kg bw
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SECTION 4: First aid measures

4.1 Description of first aid measures:

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with

the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed: None known

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment: none

SECTION 5: Firefighting measures

5.1 Extinguishing agent:

Suitable extinguishing media: Water

Carbon dioxide (CO₂)

Extinguishing media that must not be used for safety reasons:

No special restrictions known.

5.2 Special hazards arising from the substance or mixture:

Do not breathe explosion or combustion gases.

Burning produces heavy smoke.

5.3 Advice for firefighters:

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:
For untrained personnel:**

Wear personal protective equipment.

Bring people to safety.

See protective measures in sections 7 and 8.

For emergency personnel:

Wear personal protective equipment.

6.2 Environmental protection measures:

Do not allow to enter soil, groundwater or watercourses.

Collect contaminated rinse water and dispose of it properly.

Inform the relevant authorities in the event of gas leakage or penetration into water, soil or sewage system.

Suitable means for absorption: organic binder, sand.

6.3 Methods and materials for containment and cleanup:

Clean with plenty of water.

6.4 Reference to other sections:

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Avoid contact with skin and eyes and avoid inhalation of vapors and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities:

Keep away from food, beverages, and animal feedingstuffs.

Incompatible materials:

See section 10.5.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials

See section 10.5.

Instructions as regards storage premises:

Adequately ventilated premises.

7.2 Specific end uses:

See section 1.2.

SECTION 8: Exposure controls / Personal protective equipment

8.1 Control parameters:

ZCX 15-3 Catalyse

Dimethylbis[(1-oxoneodecyl)oxy]stannane - CAS: 68928-76-7

Cristobalite – CAS: 14464-46-1

OEL Code	TWA	Length of time	Notes
No data available			

DNEL values: Not available

PNEC values: Not available

8.2 Exposure controls and personal protective equipment:

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Eye protection:

Wear airtight protective goggles (EN 166).

Protection for skin:

Overall.

Protection for hands:

The following should be considered when choosing work glove material (EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use. PVC (polyvinyl chloride - EN 374).

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged. Mask with a type A2 filter

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties:

Characteristics	Value	method	note
Physical condition	Liquid	--	--
Color	Transparent	--	--
Odor	Pungent	--	--
Melting point/freezing point	Not available	--	--
Boiling point or initial boiling point and boiling range	Not available	--	--
Flammability	Not available	--	--
Lower and upper explosion limits	Not available	--	--
Flash point	69 ° C	EN ISO 3679	--
Autoignition temperature	Not available	--	--
Decomposition temperature	Not available	--	--
PH value	Not available	--	--
Kinematic viscosity	Not available	--	--
Water solubility	Insoluble	--	--
Oil solubility	Not available	--	--
Partition coefficient n- octanol /water (log value)	Not available	--	--
vapor pressure	Not available	--	--
Density and/or relative density	0.95 g/ mL	--	--
Relative vapor density	Not available	--	--
Particle size:	Not available	--	--

9.2. Other information

Properties	Value	method	note
Viscosity:	18 cP	--	--

SECTION 10: Stability and reactivity
10.1 Reactivity:

Stable under normal conditions.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

None.

10.4 Conditions to avoid:

Stable under normal conditions.

10.5 Incompatible materials:

None known.

10.6 Hazardous decomposition products:

propan-2-ol

SECTION 11: Toxicological information

11.1 Information on toxicological effects according to Regulation (EC) No. 1272/2008:**Toxicological information about the product:
SILISIL ZCX 15-3 Catalyst**

- a) Acute toxicity:**
Not classified
- b) Skin corrosion/irritation:**
Not classified
- c) Serious eye damage/irritation:**
Not classified
- d) Respiratory or skin sensitization:**
The product is classified: Skin Sens. 1A H317
- e) Germ cell mutagenicity:**
Not classified
- f) Carcinogenicity :**
Not classified
- g) Reproductive toxicity:**
The product is classified: Repr. 2 H361
- h) STOT – single exposure:**
Not classified
- i) STOT – repeated exposure:**
The product is classified: STOT RE 2 H373
- j) Aspiration hazard:**
Not classified

Toxicological information of the main substances found in the product:

Dimethylbis[(1-oxoneodecyl)oxy]stannane - CAS: 68928-76-7i) STOT – repeated exposure:

- a) Acute toxicity:**
ATE - Oral 890 mg/kg bw

Test: LD50 - Route: Oral - Species: Rat 890 mg/kg - Source: (SDS supplier).
(analogous to OECD 402, ECHA dossier)

b) skin corrosion/irritation:

Route: Skin - Species: Rabbit - Skin Irritant - Source: (SDS supplier).

11.2 Information on other hazards

Properties of endocrine disruptors:

No endocrine disruptors are contained in a concentration $\geq 0.1\%$.

SECTION 12: Environmental information

12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

ZCX 15-3 Catalyst

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Dimethylbis[(1-oxoneodecyl)oxy]stannane - CAS: 68928-76-7

a) Acute aquatic toxicity:

Endpoint: LC50 - Species: Daphnia 39 mg/l - Duration h: 48 h (Daphnia sp. Acute Immobilisation Test, SDS supplier).

Endpoint: EC50 - Species: Algae 7.6 mg/l - Duration h: 72 h (Alga, Growth Inhibition Test, SDS supplier).

Endpoint: EC50 - Species: Daphnia 39 mg/l - Duration h: 48 h (Daphnia magna (water flea) - Daphnia sp. Acute Immobilisation Test, SDS supplier).

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

No Not available

12.5 Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6 Properties of endocrine disrupting substances

No substances with endocrine disruption contained in a concentration $\geq 0.1\%$.

12.7 Other adverse effects

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1 UN number or identification number

Not classified as dangerous in the meaning of transport regulations.

14.2 UN proper shipping name

Not available

14.3 Hazard classes for transport

Not available

14.4 Packing group

Not available

14.5 Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6 Special precautions for user

Not available

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

Not applicable

SECTION 15: Legislation

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

Directive 98/24/EC (Risks from chemical agents at work)

Directive 2000/39/EC (Workplace exposure limits)

Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1272/2008 (CLP)

Regulation (EC) No. 790/2009 (ATP 1 CLP) and (EU) No. 758/2013

Regulation (EU) No. 2020/878

Regulation (EU) No. 286/2011 (ATP 2 CLP)

Regulation (EU) No. 618/2012 (ATP 3 CLP)

Regulation (EU) No. 487/2013 (ATP 4 CLP)

Regulation (EU) No. 944/2013 (ATP 5 CLP)

Regulation (EU) No. 605/2014 (ATP 6 CLP)

Regulation (EU) No. 2015/1221 (ATP 7 CLP)

Regulation (EU) No. 2016/918 (ATP 8 CLP)
 Regulation (EU) No. 2016/1179 (ATP 9 CLP)
 Regulation (EU) No. 2017/776 (ATP 10 CLP)
 Regulation (EU) No. 2018/669 (ATP 11 CLP)
 Regulation (EU) No. 2018/1480 (ATP 13 CLP)
 Regulation (EU) No. 2019/521 (ATP 12 CLP)
 Regulation (EU) No. 2020/217 (ATP 14 CLP)
 Regulation (EU) No. 2020/1182 (ATP 15 CLP)
 Regulation (EU) No. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation

(EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

Restriction 20

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

WGK Classification (Water hazard class - Verwaltungsvorschrift wassergefährdende Stoffe) Lagerklasse according to TRGS 510:

LGK 10: Combustible liquids

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

California Proposition 65

Substance(s) listed under California Proposition 65:

None.15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this mixture.

Substances for which a chemical safety assessment is available:

None

SECTION 16: Other information

Hazard classes and categories:	code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A

Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification

SECTION 4: First aid measures

SECTION 8: Exposure controls/personal protection

Classification and procedure used to derive the classification for mixtures according to Regulation

(EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Sens. 1A, H317	Calculation method
Repr. 2, H361	Calculation method
STOT RE 2, H373	Calculation method

This document was prepared by a competent person who has received appropriate training

Main bibliographic sources:

ECHA – European Chemical Agency

GESTIS - Information system on hazardous substances of the German Social Accident Insurance

IARC – International Agency for Research on Cancer

IPCS INCHEM – International Programme on Chemical Safety

ISS – Istituto Superiore di Sanità

PubChem - open chemistry database at the National Institutes of Health (NIH)

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE: Acute Toxicity Estimate
ATEmix : Acute Toxicity Estimate (Mixtures)
CAS: Chemical Abstracts Service (a division of the American Chemical Society)
CLP: Classification, Labelling and Packaging
DNEL: Derived No - Effect Level
EINECS: European Inventory of Existing Commercial Chemical Substances
GefStoffVO : Ordinance on Hazardous Substances (Germany)
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
IATA: International Air Transport Association
IATA-DGR: IATA Dangerous Goods Regulations
ICAO: International Civil Aviation Organization
ICAO-TI: ICAO Technical Instructions
IMDG: International Maritime Dangerous Goods Code
INCI: International Nomenclature of Cosmetic Ingredients
KSt : Explosive Index
LC50: Lethal Concentration for 50% of test animals
LD50: Lethal Dose for 50% of test animals
PNEC: Predicted No-Effect Concentration Effect
RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
STEL: Short-term exposure limit
STOT: Specific Target Organ Toxicity
TLV: Workplace Exposure
Limit TWA: Time-weighted average
WGK: Water hazard class (Germany)