



SAFETY DATA SHEET

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

Product identifier:

Product name: BLUESIL CATA 24H

Synonyms, Trade Names: RHODORSIL CATALYST
24H

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

Identified uses: Curing agent. Catalyst

Uses advised against: None known.

Details of the supplier of the safety data sheet:**Manufacturer:**

BLUESTAR SILICONES Usines Rhône-Alpes
1-55 rue des Frères PERRET
F-69 192 SAINT FONS Cedex

Telephone: +33 (0) 4 72 73 74 75

Fax: +33 (0) 4 72 73 75 99

e-mail: fds.sil@bluestarsilicones.com

Supplier:

Bluestar Silicones (UK) Ltd
Wolfe Mead, Farnham Road
UK-GU35 0NH Bordon

Telephone: +44 (0) 1420 477000

Emergency telephone number: +44 (0) 1865 407333

SECTION 2: Hazards identification

Classification of the substance or mixture:

The product has been classified according to the legislation in force.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended:

Xn; R48/22 Repr. 3; Xn; R63

Hazard summary:

Physical hazards: Combustible.

Health hazards:

Inhalation: No specific symptoms noted.

Eye contact: No specific symptoms noted.

Skin contact: No specific symptoms noted.

Ingestion: Toxic: danger of serious damage to health by prolonged exposure if swallowed.

Other Health Effects: Possible risk of harm to the unborn child.

Environmental hazards: Not regarded as dangerous for the environment.**Label elements:****Contains:** Dimethylbis[(1-oxoneodecyl)oxy]stannane

Harmful

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
 R63 Possible risk of harm to the unborn child.
 S36/37 Wear suitable protective clothing and gloves.

Other hazards: No data available.**Substance(s) formed under the conditions of use:**

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	INDEX No.
ethanol; ethyl alcohol	<20%	64-17-5	200-578-6		#
propan-1-ol; n-propanol	<7%	71-23-8	200-746-9		#

SECTION 3: Composition/information on ingredients**Mixtures:****General information:** Mixture of organosiloxanes, additives.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	Notes
Dimethylbis[(1-oxoneodecyl)oxy]stannane	<10%	68928-76-7			#
ethanol; ethyl alcohol	<0,01%	64-17-5	200-578-6		#
propan-1-ol; n-propanol	<0,01%	71-23-8	200-746-9		#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification:

Chemical name	Classification		Notes
Dimethylbis[(1-oxoneodecyl)oxy]stannane	DPD:	Xn; R22 T; R48/25 Repr. 3; Xn; R63 R53	
ethanol; ethyl alcohol	DPD:	F; R11	
	CLP:	Flam. Liq. 2;H225	
propan-1-ol; n-propanol	DPD:	F; R11 Xi; R41 R67	
	CLP:	Flam. Liq. 2;H225, Eye Dam. 1;H318, STOT SE 3;H336	

DPD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.:

The full text for all R/H-phrases is displayed in section 16.

SECTION 4: First aid measures

General:	Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.
Description of first aid measures:	
Inhalation:	Move into fresh air and keep at rest.
Eye contact:	In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.
Skin contact:	Remove contaminated clothing and shoes. Wash with soap and water.
Ingestion:	Do not induce vomiting. Rinse mouth thoroughly.
Most important symptoms and effects, both acute and delayed:	None known.
Indication of any immediate medical attention and special treatment needed:	
Hazards:	No specific recommendations.
Treatment:	No specific recommendations.

SECTION 5: Firefighting measures

General fire hazards:	No specific recommendations.
Extinguishing media:	
Suitable extinguishing media:	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance or mixture:	Combustible liquid. For further information, refer to section 10: "Stability and Reactivity".
Advice for firefighters:	
Special Fire Fighting Procedures:	Water spray should be used to cool containers.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Do not breathe vapor. See Section 8 of the MSDS for Personal Protective Equipment. Ventilate the area.
Environmental precautions:	Collect spillage. Do not discharge into drains, water courses or onto the ground.
Methods and material for containment and cleaning up:	Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent.(cf. : § 9) Flush area with plenty of water. Incinerate in suitable combustion chamber.
Notification Procedures:	Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the MSDS.

SECTION 7: Handling and storage:

Precautions for safe handling: Adequate ventilation should be provided so that exposure limits are not exceeded. Ventilate well. Avoid forming spray/aerosol mists. Do not mix with Incompatible materials. For further information, refer to section 10: "Stability and Reactivity".

Conditions for safe storage, including any incompatibilities: Avoid discharge into drains, water courses or onto the ground. Store in original tightly closed container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Suitable containers: Steel drums coated with epoxy-resin.

Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

Control parameters:

Occupational exposure limits:

Chemical name	Type	Exposure Limit values	Source
Dimethylbis[(1-oxoneodecyl)oxy]stannane - as Sn	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)
	STEL	0,2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)

Additional exposure limits under the conditions of use:

Chemical name	Type	Exposure Limit values	Source
ethanol; ethyl alcohol	TWA	1 000 ppm 1 920 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)
propan-1-ol; n-propanol	TWA	200 ppm 500 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)
	STEL	250 ppm 625 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)

Exposure controls:

Appropriate engineering controls: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Use engineering controls to reduce air contamination to permissible exposure level.

Individual protection measures, such as personal protective equipment:

General information: Provide sufficient ventilation during operations which cause vapor formation.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection:

Hand protection: Rubber gloves are recommended.

Other: It is a good industrial hygiene practice to minimize skin contact. Wear suitable protective clothing.

Respiratory Protection: If ventilation is insufficient, suitable respiratory protection must be provided. Self-contained breathing apparatus.

Hygiene measures: Provide eyewash station and safety shower.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties:**Appearance:**

Physical State:	Liquid
Form:	No data available.
Color:	Colorless
Odor:	Odorless
Odor Threshold:	No data available.
pH:	Not applicable
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	112 °C (Closed cup according to method Afnor T 60103.)
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)-:	No data available.
Flammability Limit - Lower (%)-:	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	1,01 (20 °C) Approximate
Solubility(ies):	
Solubility in Water:	Practically Insoluble
Solubility (other):	Acetone.: Miscible (in all proportions). Aliphatic hydrocarbons.: Miscible (in all proportions). Aromatic hydrocarbons.: Miscible (in all proportions). Chlorinated solvents.: Miscible (in all proportions). Ethanol.: Dispersible
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	Approximate 50 mm ² /s (25 °C)
Explosive properties:	No data available.
Oxidizing properties:	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

SECTION 10: Stability and reactivity

Reactivity:	Not relevant.
Chemical stability:	Stable
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No other information noted.
Incompatible materials:	Strong oxidizing agents. Water, moisture.
Hazardous decomposition products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica. Tin oxide. During use or in contact with water, may generate hazardous substances.

SECTION 11: Toxicological information**Information on likely routes of exposure**

Inhalation:	No data available.
Ingestion:	No data available.

Skin contact: No data available.

Eye contact: No data available.

Information on toxicological effects:

Acute Toxicity:

Oral:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane LD 50 (Rat): 894 mg/kg

ethanol; ethyl alcohol No data available.

propan-1-ol; n-propanol LD 50 (Rabbit): 2,8 g/kg

Dermal:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane LD 50 (Rat): > 2 000 mg/kg

ethanol; ethyl alcohol No data available.

propan-1-ol; n-propanol LD 50 (Rabbit): 4 032 mg/kg

Inhalation:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane No data available.

ethanol; ethyl alcohol LC 50 (Mouse, 4 h): 0,039 mg/l

propan-1-ol; n-propanol LC 50 (Rat, 10 h): 20 000 mg/l

LC 50 (Rat, 4 h): > 33,8 mg/l

Repeated dose toxicity:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane No data available.

ethanol; ethyl alcohol No data available.

propan-1-ol; n-propanol No data available.

Skin corrosion/irritation:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane Rabbit : Slightly irritating.

ethanol; ethyl alcohol No data available.

propan-1-ol; n-propanol Rabbit : Not irritating

Serious eye damage/eye irritation:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane Rabbit : Slightly irritating.

ethanol; ethyl alcohol No data available.

propan-1-ol; n-propanol Rabbit : Severely irritating to eyes.

Respiratory or skin sensitization:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane	No data available.
ethanol; ethyl alcohol	No data available.
propan-1-ol; n-propanol	No data available.

Germ cell mutagenicity:**In vitro:**

Product:	No data available.
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Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane	Bacteria : No mutagenic components identified
ethanol; ethyl alcohol	No data available.
propan-1-ol; n-propanol	Bacteria : No mutagenic components identified

In vivo:

Product:	No data available.
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Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane	No data available.
ethanol; ethyl alcohol	No data available.
propan-1-ol; n-propanol	No data available.

Carcinogenicity:

Product:	No data available.
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Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane	No data available.
ethanol; ethyl alcohol	No data available.
propan-1-ol; n-propanol	No data available.

Reproductive toxicity:

Product:	No data available.
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Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane	No data available.
ethanol; ethyl alcohol	No data available.
propan-1-ol; n-propanol	No data available.

Specific target organ toxicity - single exposure:

Product:	No data available.
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Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane	No data available.
ethanol; ethyl alcohol	No data available.
propan-1-ol; n-propanol	No data available.

Specific target organ toxicity - repeated exposure:

Product:	No data available.
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Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane	No data available.
ethanol; ethyl alcohol	No data available.
propan-1-ol; n-propanol	No data available.

Aspiration hazard:

Product:	No data available.
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Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane	No data available.
ethanol; ethyl alcohol	No data available.
propan-1-ol; n-propanol	No data available.

Other adverse effects:**SECTION 12: Ecological information****Toxicity:****Acute toxicity:****Fish:**

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane No data available.

ethanol; ethyl alcohol LC 50 (Bleak (*Alburnus alburnus*), 96 h): 11 000 mg/l Mortality
propan-1-ol; n-propanol LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 4 300 - 5 000 mg/l Mortality

Aquatic invertebrates:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane No data available.

ethanol; ethyl alcohol LC 50 (Water flea (*Daphnia magna*), 48 h): 12 310 - 14 724 mg/l Mortality
propan-1-ol; n-propanol LC 50 (Scud (*Gammarus pulex*), 48 h): 1 000 mg/l Mortality

Chronic Toxicity:**Fish:**

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane No data available.

ethanol; ethyl alcohol No data available.
propan-1-ol; n-propanol No data available.

Aquatic invertebrates:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane No data available.

ethanol; ethyl alcohol No data available.
propan-1-ol; n-propanol EC50 (Water flea (*Daphnia magna*), 21 d): > 100 mg/l

Toxicity to Aquatic Plants:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane No data available.

ethanol; ethyl alcohol No data available.
propan-1-ol; n-propanol EC50 (*Pseudokirchneriella subcapitata*, 48 h): 9 170 mg/l

Persistence and degradability:**Biodegradation:**

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane ethanol; ethyl alcohol propan-1-ol; n-propanol

The product is not readily biodegradable.
No data available.
The product is easily biodegradable.

BOD/COD ratio:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane ethanol; ethyl alcohol propan-1-ol; n-propanol

No data available.
No data available.
No data available.

Bioaccumulative potential:

Product: No data available.

Specified substance(s):

Dimethylbis[(1-oxoneodecyl)oxy]stannane ethanol; ethyl alcohol propan-1-ol; n-propanol

No data available.
No data available.
Bioconcentration factor (BCF): 0,88

Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments:

Dimethylbis[(1-oxoneodecyl)oxy]stannane ethanol; ethyl alcohol propan-1-ol; n-propanol

No data available.
No data available.
No data available.

Results of PBT and vPvB assessment:

No data available.

Dimethylbis[(1-oxoneodecyl)oxy]stannane ethanol; ethyl alcohol propan-1-ol; n-propanol

No data available.
No data available.
No data available.

Other adverse effects:

No data available.

SECTION 13: Disposal considerations**Waste treatment methods:****General information:**

The user's attention is drawn to the possible existence of local regulations regarding disposal.

Disposal Methods:

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Incinerate.

Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

European Waste Codes:**SECTION 14: Transport information**

This material is not subject to transport regulations.

Environmental hazards:

Not regulated.

Special precautions for user:

No special precautions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

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

National Regulations:

Chemical safety assessment: No data available.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: No data available.

Wording of the R-phrases and H-statements in section 2 and 3:

R22	Harmful if swallowed.
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R53	May cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.

Training information: No data available.

Inventory Status

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EU EINECS List:	On or in compliance with the inventory
Japan (ENCS) List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory

Issue Date: 14.03.2012

SDS No:

Disclaimer: The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.