

EG-MATERIAL SAFETY DATA SHEET



According to regulation (EC) n° 1907/2006 Annex II
Revision date: 09.01.2019 Version: 3.0

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Printing date: 16.05.2019

Adisil blue - component A

1. Identification of the Substance / Preparation and Company:

- 1.1 Product identifier:
Commercial product name: Adisil blue – component A
Duplicating silicone
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
Identified uses: Moulding diverse objects.
Uses advised against: None known.
- 1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier: SILADENT Dr. Böhme & Schöps GmbH
Street / mailbox: Im Klei 26
Country code. / postal code / city: D - 38644 Goslar
Phone: Tel.: +49 (0) 53 21 / 37 79 – 0
Fax: Fax: +49 (0) 53 21 / 38 96 32
E-mail / Website: info@siladent.de - www.siladent.de
- 1.4 Further information obtainable from:
SILADENT Dr. Böhme & Schöps GmbH: +49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m. – 4 p.m.)

2. Hazards Identification:

- 2.1. Classification of the substance or mixture: The product has not been classified as hazardous according to the legislation in force.
Classification according to Regulation (EC) No 1272/2008 as amended. Not classified
- 2.2 Label Elements: Not applicable
Hazard summary:
Physical Hazards: No specific recommendations.
Health Hazards:
Inhalation: No specific symptoms noted.
Eye contact: No specific symptoms noted.
Skin Contact: No specific symptoms noted.
Ingestion: No specific symptoms noted.
Other Health Effects: No other information noted.
Environmental hazards: Not regarded as dangerous for the environment.
- 2.3 Other hazards: Chemical compounds containing silicon - hydrogen bonds (SiH). This product may generate hydrogen gas. For further information, refer to section 10: "Stability and Reactivity". Meets vPvB criteria

3. Composition / Information on Ingredients:

3.2 Mixtures

General information:

Mixture of organosiloxanes, additives.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Dodecamethylcyclohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-0002	No data available.	vPvB
Decamethylcyclopentasiloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367-43-0003	No data available.	vPvB

* 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).

Chemical name	Classification	Notes
Dodecamethylcyclohexasiloxane	None known.	No data available.
Decamethylcyclopentasiloxane	None known.	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

Adisil blue - component A**4. First aid measures:**

General:	Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.
4.1 Description of first aid measures:	
Inhalation:	Not relevant.
Skin Contact:	Remove contaminated clothing and shoes. Wash with soap and water.
Eye contact:	In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.
Ingestion:	Do not induce vomiting. Rinse mouth thoroughly.
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:	
Hazards:	No specific recommendations.
Treatment:	No specific recommendations.

5. Fire Fighting measures:

General Fire Hazards:	No specific recommendations.
5.1 Extinguishing media	
Suitable extinguishing media:	Foam. Powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire. Alkaline powders.
5.2 Special hazards arising from the substance or mixture:	This product may generate hydrogen gas. Vapours may form explosive mixtures with air. For further information, refer to section 10: "Stability and Reactivity".
5.3 Advice for firefighters:	
Special firefighting 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. Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:	
For non-emergency personnel:	Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Keep away from Alkalies and caustic products. Eliminate all sources of ignition.
For emergency responders:	No data available.
6.2 Environmental Precautions:	Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Mechanically ventilate the spillage area to prevent the formation of explosive concentrations.
6.3 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.
6.4 Reference to other sections:	Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

Adisil blue - component A

7. Handling and Storage:

7.1	Precautions for safe handling	Use mechanical ventilation in case of handling which causes formation of vapours. Do not mix with Incompatible materials. For further information, refer to section 10: "Stability and Reactivity". Read and follow manufacturer's recommendations.
7.2	Conditions for safe storage, including any incompatibilities:	Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Store in tightly closed original container. Equipped with a degassing device. Suitable containers: polyethylene. Steel drums coated with epoxy-resin.
	Storage Class:	No data available.
7.3	Specific end use(s):	No data available.

8. Exposure controls / Personal protection:

8.1	Control Parameters:	
	Occupational Exposure Limits:	None of the components have assigned exposure limits.
8.2	Exposure controls:	
	Appropriate engineering controls:	Avoid inhalation of vapours and spray mists.
	Individual protection measures, such as personal protective equipment:	
	General information:	Provide sufficient ventilation during operations which cause vapour formation.
	Eye/face protection:	Safety Glasses
	Skin protection:	Material: Nitrile.
	Hand Protection:	Material: Polyvinyl chloride (PVC).
		Material: Rubber or plastic.
	Other:	It is a good industrial hygiene practice to minimize skin contact. Wear suitable protective clothing.
	Respiratory Protection:	No specific precautions.
	Hygiene measures:	Provide eyewash station and safety shower.
	Environmental Controls:	No data available.

9. Physical and chemical properties:

9.1	Information on basic physical and chemical properties	
	Physical state:	Liquid
	Form:	Viscous
	Colour:	White
	Odour:	Odorless
	Odour threshold:	No data available.
	pH-Value:	Not applicable.
	Freezing point:	No data available.
	Boiling Point:	No data available.
	Flash Point:	> 200 °C (Closed cup according to method ASTM D-56.)
	Evaporation Rate:	No data available.
	Flammability (solid, gas):	No data available.
	Flammability Limit - Upper (%):	74 %(V) Hydrogen.
	Flammability Limit - Lower (%):	4 %(V) Hydrogen.
	Vapour pressure:	< 0,1 hPa (20 °C)
	Vapour density (air=1):	No data available.
	Density:	Approximate 1,15 kg/dm ³ (20 °C)
	Solubility(ies):	
	Solubility in Water:	Practically Insoluble
	Solubility (other):	Diethylether: Miscible (in all proportions). Chlorinated solvents: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions). Aliphatic hydrocarbons: Miscible (in all proportions).

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Partition coefficient (n-octanol/water):
Autoignition Temperature:
Decomposition Temperature:
Viscosity:
Explosive properties:
Oxidizing properties:

Acetone: Very slightly soluble.
Ethanol: Very slightly soluble.
No data available.
> 400 °C
> 200 °C
5 000 mm²/s (20°C)
No data available.
According to the data on the components Not considered as oxidising. (evaluation by structure-activity relationship)
No data available.

9.2 Other information:

10. Stability and Reactivity:

10.1 Reactivity:	No other information noted.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of Hazardous Reactions:	This product may generate hydrogen gas.
10.4 Conditions to Avoid:	No other information noted.
10.5 Incompatible Materials:	A fire or explosion hazard arises because highly flammable gas (hydrogen) is released when it is in contact with: Strong oxidizing agents. Alkalis and caustic products. Chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Amorphous silica. Quantity of hydrogen potentially released (l/kg of product): <4

11. Toxicological Information:

Information on likely routes of exposure	
Inhalation:	No effects expected (assessment based on ingredients).
Ingestion:	No effects expected (assessment based on ingredients).
Skin Contact:	No effects expected (assessment based on ingredients).
Eye contact:	No effects expected (assessment based on ingredients).
11.1 Information on toxicological effects:	
Acute Toxicity:	
Oral:	Not classified for acute toxicity based on available data.
Product:	
Dermal:	Not classified for acute toxicity based on available data.
Product:	
Inhalation:	
Product:	Composition/information on ingredients
Specified substance(s):	
Decamethylcyclopentasiloxane:	LC 50 (Rat): 8,67 mg/l
Repeated Dose Toxicity:	
Product:	No data available.
Specified substance(s):	
Dodecamethylcyclohexasiloxane:	NOAEL (Rat, Oral): ≥ 1 000 mg/kg Method: OECD 422 NOAEL (Rat, Inhalation - vapour): 0,0182 mg/l Method: OECD 413
Decamethylcyclopentasiloxane:	NOAEL (Rat, Oral): ≥ 1 000 mg/kg NOAEL (Rat, Inhalation - vapour): ≥ 2,42 mg/l NOAEL (Rat, Dermal): ≥ 1 600 mg/kg
Skin Corrosion/Irritation:	
Product:	Composition/information on ingredients
Specified substance(s):	
Dodecamethylcyclohexasiloxane:	OECD 404 (Rabbit): Not irritating

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Decamethylcyclopentasiloxane:
Serious Eye Damage/Eye Irritation:
Product:
Specified substance(s):
Dodecamethylcyclohexasiloxane:
Decamethylcyclopentasiloxane:
Respiratory or Skin Sensitization:
Product:
Specified substance(s):
Dodecamethylcyclohexasiloxane:
Decamethylcyclopentasiloxane:
Germ Cell Mutagenicity:
In vitro:
Product:
Specified substance(s):
Dodecamethylcyclohexasiloxane:

Decamethylcyclopentasiloxane:

In vivo:
Product:
Specified substance(s):
Dodecamethylcyclohexasiloxane:

Decamethylcyclopentasiloxane:
Carcinogenicity:
Product:
Reproductive Toxicity:
Product:
Specified substance(s):
Dodecamethylcyclohexasiloxane:

Reproductive toxicity (Fertility):
Product:
Specified substance(s):
Dodecamethylcyclohexasiloxane:

Decamethylcyclopentasiloxane:

Developmental toxicity (Teratogenicity):
Product:
Specified substance(s):
Dodecamethylcyclohexasiloxane:

Specific Target Organ Toxicity - Single Exposure:
Product:
Specified substance(s):
Dodecamethylcyclohexasiloxane:

Rabbit: Not irritating

Composition/information on ingredients

OECD 405 (Rabbit): Not irritating
Rabbit : Not irritating

Composition/information on ingredients

OECD 406 (Guinea Pig): Not a skin sensitizer.
Not a skin sensitizer.

Composition/information on ingredients

Mouse lymphoma cells (OECD 476): negative with and without metabolic activation
Bacteria (OECD 471): negative with and without metabolic activation
Chromosomal aberration: No mutagenic components identified. Bacteria: No mutagenic components identified.

No data available.

Mammalian erythrocyte micronucleus test (OECD 474):
No mutagenic effects.
No effects expected.

No data available.

Composition/information on ingredients

Based on available data, the classification criteria are not met.

Composition/information on ingredients

Reproduction/developmental toxicity screening test. Rat (Gavage (Oral)): NOAEL (parent): $\geq 1\ 000$ mg/kg NOAEL (F1): $\geq 1\ 000$ mg/kg NOAEL (F2): Method: OECD 422
Fertility study 2 generations. Rat (Inhalation): NOAEL (parent): 3,64 mg/l NOAEL (F1): None. NOAEL (F2): None. Method: OECD 416

Composition/information on ingredients

Rabbit NOAEL (terato): $\geq 1\ 000$ mg/kg NOAEL (mater): $\geq 1\ 000$ mg/kg Method: OECD 414 Rat NOAEL (terato): $\geq 1\ 000$ mg/kg NOAEL (mater): $\geq 1\ 000$ mg/kg Method: OECD 414

No data available.

Based on available data, the classification criteria are not met.

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Specific Target Organ Toxicity - Repeated

Exposure:

Product:

No data available.

Specified substance(s):

Dodecamethylcyclotrioxasiloxane:

Based on available data, the classification criteria are not met.

Aspiration Hazard:

Product:

No data available.

12. Ecological Information:

12.1

Toxicity:

Acute toxicity:

Fish:

Product:

No data available.

Aquatic Invertebrates:

Product:

No data available.

Chronic Toxicity:

Fish:

Product:

Composition/information on ingredients

Specified substance(s):

Decamethylcyclotrioxasiloxane:

NOEC (Oncorhynchus mykiss, 90 d): $\geq 0,014$ mg/l

Aquatic Invertebrates:

Product:

Composition/information on ingredients

Specified substance(s):

Dodecamethylcyclotrioxasiloxane:

NOEC (Water flea (Daphnia magna), 21 d): $\geq 0,0046$ mg/l

Toxicity to Aquatic Plants:

Product:

Composition/information on ingredients

Specified substance(s):

Dodecamethylcyclotrioxasiloxane:

NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): $\geq 0,002$ mg/l

EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): $> 0,002$ mg/l

12.2 Persistence and Degradability:

Biodegradation:

Product:

Composition/information on ingredients

Specified substance(s):

Dodecamethylcyclotrioxasiloxane:

4,5 % (28 d, OECD 310) The product is not readily biodegradable.

Decamethylcyclotrioxasiloxane:

0,14 % (28 d) The product is not readily biodegradable.

BOD/COD Ratio:

Product:

No data available.

12.3 Bioaccumulative Potential:

Product:

Composition/information on ingredients

Specified substance(s):

Dodecamethylcyclotrioxasiloxane:

Fathead Minnow, Bioconcentration Factor (BCF): 2 860 (OECD 305) Has the potential to bioaccumulate.

Decamethylcyclotrioxasiloxane:

Fathead Minnow, Bioconcentration Factor (BCF): 7 060

12.4 Mobility in Soil:

No data available.

12.5 Results of PBT and vPvB assessment:

Dodecamethylcyclotrioxasiloxane

Meets vPvB criteria

REACH (1907/2006) Ax XIII

Decamethylcyclotrioxasiloxane

Meets vPvB criteria

REACH (1907/2006) Ax XIII

12.6 Other Adverse Effects:

None known.

13. Disposal Considerations:

13.1 Waste treatment methods

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General information:	The user's attention is drawn to the possible existence of local regulations regarding disposal.
Disposal methods:	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Waste of this material should not be mixed with other waste. Provide measures such as vented bungs to ensure pressure relief in the waste container.
Contaminated Packaging:	Contaminated packages should be as empty as possible and equipped with a degassing device. 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.

14. Transport Information:

This material is not subject to transport regulations.	
Other information:	Warning Packaging with a breathing/venting bung are FORBIDDEN for transport by air.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.

15. Regulatory Information:

15. Safety, health and environmental regulations/legislation specific for the substance or mixture	
National Regulations:	
Water Hazard Class (WGK):	WGK 1: slightly water-endangering.
15.2 Chemical safety assessment:	No Chemical Safety Assessment has been carried out.
Inventory Status	
Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	On or 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

16. Other Information:

Revision Information:	Not relevant.
References	
PBT	PBT: persistent, bioaccumulative and toxic substance.
vPvB	vPvB: very persistent and very bioaccumulative substance.
Key abbreviations or acronyms used:	No data available.
Key literature references and sources for data:	No data available.
Wording of H-statements in section 2 and 3:	None
Training information:	No data available.
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	