

EG-MATERIAL SAFETY DATA SHEET



According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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Revision Date: 22.03.2022

Version: 5.0

Printing date: 06.12.2022

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

- 1.1 Product identifier:**
Commercial product name: Adisil blue – component B
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.)

SECTION 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
- 2.3 Other hazards:**
- 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.
- Results of PBT and vPvB assessment:** This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).
- Endocrine Disruption - Health:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

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Endocrine Disruption - Environment:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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".

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information:

Mixture of organosiloxanes, additives.

Chemical name	Concentration*	Type	CAS-No.	EC No.	REACH Registration No.	Notes
Dodecamethylcyclohexasiloxane	0,1 - <1%	Impurities	540-97-6	208-762-8	Not relevant.	## 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).

This substance is listed as SVHC.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

ED: Endocrine Disruptor

Chemical name	Classification	Specific concentration limits / ATE / M-Factor:	Notes
Dodecamethylcyclohexasiloxane	None known.		

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

SECTION 4: First aid measures

General information:

No specific first aid measures noted. Get medical attention if symptoms occur.

4.1 Description of first aid measures:

Inhalation:

Under normal conditions of intended use, this material is not expected to be an inhalation hazard. In case of inhalation: Move person into fresh air and keep at rest. Get medical attention if symptoms occur.

Skin Contact:

Remove contaminated clothing and shoes. Wash skin with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

Eye contact:

In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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Ingestion:	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.
Personal Protection for First-aid Responders:	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). Refer to sections 5 and 8 for information on emergency procedures and protective equipment.
4.2 Most important symptoms and effects, both acute and delayed:	No specific symptoms noted. For further information, please refer to Section 11 of the SDS.
4.3 Indication of any immediate medical attention and special treatment needed:	No specific recommendations. Show this Safety Data Sheet to the attending physician.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media:	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.
5.2 Special hazards arising from the substance or mixture:	Product will burn under fire conditions. Thermal decomposition or combustion may liberate carbon oxides, silicon oxides and other toxic gases or vapours.
5.3 Advice for firefighters:	
Special firefighting procedures:	Use standard firefighting procedures and consider the hazards of other involved materials. Remove undamaged containers from fire area if it is safe to do so. Evacuate to a safe location and contact the emergency services. Water spray should be used to cool containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
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

6.1 Personal precautions, protective equipment and emergency procedures:	Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Keep away from Alkalis and caustic products. Eliminate all sources of ignition.
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

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objects contaminated by this material, use an appropriate solvent (see § 9). Flush area with plenty of water. Incinerate in suitable combustion chamber.

6.4 Reference to other sections:

Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions:

Handle in accordance with good industrial hygiene and safety practices. No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the SDS for additional personal protection advice when handling this product. Take care to prevent spills, waste and minimize release to the environment. In case of spills, beware of slippery floors and surfaces.

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with local/regional/national regulations. Avoid discharge into drains, water courses or onto the ground. Store in a dry place. Keep in properly labelled containers. Keep above the chemical's freezing point. Protect against physical damage and/or friction. Store away from incompatible materials. For further information, refer to section 10: "Stability and Reactivity".

Packaging frequently used at our sites:

Polyethylene. Steel drums coated with epoxy-resin.

Lagerklasse:

Es liegen keine Daten vor.

Storage Class:

No data available.

7.3 Specific end use(s):

No specific recommendations. See the technical data sheet on this product for further information.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters:

Occupational Exposure Limits:

None of the components have assigned exposure limits.

Monitoring methods:

Ensure workers' exposure monitoring in accordance with national and European regulations in force, in particular Directives 98/24/EC and 2004/37/EC.

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8.2 Exposure controls: Appropriate engineering controls:

Use engineering controls to reduce air contamination to permissible exposure level. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Engineering controls are always preferable to personal protective equipment. Control measures to consider: Provide adequate ventilation. In case of inadequate ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment:

Avoid inhalation of vapours/aerosols/dusts and contact with skin and eyes. Personal protective equipment should be chosen according to applicable standards, adapted to the conditions of use of the product and in discussion with the supplier of the personal protective equipment.

Eye/face protection:

Safety glasses with side shields.

Hand Protection:

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

In case this product will be mixed with other substances, you need to contact a supplier of CE approved protective gloves in order to determine the appropriate gloves.

Prolonged or repeated contact:

Material: Nitrile.

Glove thickness: 1,25 mm

Guideline: EN374-3

Short contact:

Material: Nitrile / Neoprene

Glove thickness: 0,198 mm

Guideline: EN374-3

Skin and Body Protection:

Wear appropriate clothing to prevent any possibility of skin contact. Isolate contaminated clothing and wash before reuse. In case of splashes: Wear apron or special protective clothing.

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Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use the following CE approved air-purifying respirator: Breathing apparatus with combined filter type ABEK. Wear respiratory protection with combination filter (dust and gas filter) during operations leading to the formation of dust/aerosols.

Environmental Controls:

See sections 7 and 13 of the Safety Data Sheet.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Form:	Viscous
Colour:	Blue
Odour:	Odourless
pH:	By definition, pH measurement consists in the determination of hydrogen ions concentration in solution, generally aqueous. Silicones products are hydrophobic and therefore, not soluble in water. By consequence, it is not possible to measure the pH value.
Melting point/freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	> 200 °C / 392 °F (Closed cup according to method ASTM D56.)
Flammability:	No data available.
Flammability Limit - Upper (%)-:	74 %(V) Hydrogen.
Flammability Limit - Lower (%)-:	4 %(V) Hydrogen.
Vapour pressure:	< 0,1 hPa (20 °C)
Relative vapour density:	No data available.
Evaporation Rate:	No data available.
Density:	Approximate 1 kg/dm ³ (20 °C)
Solubility(ies)	Practically Insoluble
Solubility in Water:	Diethylether: Miscible (in all proportions).
Solubility (other):	Chlorinated solvents: Miscible (in all proportions).
	Aromatic hydrocarbons: Miscible (in all proportions).
	Aliphatic hydrocarbons: Miscible (in all proportions).
	Acetone: Very slightly soluble
	Ethanol: Very slightly soluble
Partition coefficient (n-octanol/water):	No data available.
Self-Ignition Temperature:	> 400 °C
Decomposition Temperature:	> 200 °C
Kinematic viscosity:	Approximate 600 mm ² /s (20 °C)
Particle characteristics:	Not applicable.

9.2 Other information:

Dynamic viscosity: Approximate 600 mPa.s (20 °C)
Oxidizing properties: According to the data on the components
Not considered as oxidizing.
(evaluation by structure-activity relationship)

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SECTION 10: Stability and reactivity

10.1 Reactivity:	Not relevant.
10.2 Chemical Stability:	Stable.
10.3 Possibility of Hazardous Reactions:	Not known.
10.4 Conditions to Avoid:	No other information noted.
10.5 Incompatible Materials:	Strong oxidizing agents.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Amorphous silica.

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.
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:	
Acute Toxicity:	
Oral:	Not classified for acute toxicity based on available data.
Dermal:	Not classified for acute toxicity based on available data.
Inhalation:	Not classified for acute toxicity based on available data.
Repeated dose toxicity: Based on our knowledge of the composition information:	DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): NOAEL: 1 000 mg/kg ; (Rat ; Female, Male ; Oral) ; Method: OECD 422 ; Subacute exposure NOAEL: 0,0182 mg/l ; (Rat ; Female, Male ; Inhalation - vapour) ; Method: OECD 413 ; Subchronic exposure.
Skin Corrosion/Irritation: Based on our knowledge of the composition information:	DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): Not irritating (Rabbit) ; Method: OECD 404
Serious Eye Damage/Eye Irritation: Based on our knowledge of the composition information:	DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): Not irritating (Rabbit) ; Method: OECD 405
Respiratory or Skin Sensitization: Based on our knowledge of the composition information:	DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): Skin sensitization: Not a skin sensitizer. (Guinea Pig) ; Method: OECD 406

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Germ Cell Mutagenicity:

In vitro: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6):

Bacterial reverse mutation test: No mutagenic effect. (Salmonella typhimurium and Escherichia coli ; with and without metabolic activation) ; Method: OECD 471
In vitro gene mutations test on mammalian cells: No mutagenic effect. (Mouse lymphoma cells ; with and without metabolic activation) ; Method: OECD 476

In vivo: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6):

Mammalian erythrocyte micronucleus test: No mutagenic effect. (Mouse ; Intraperitoneal) ; Method: OECD 474

Carcinogenicity:

No data available.

Reproductive toxicity:

Fertility: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): Not classified

Reproduction/developmental toxicity screening test: NOAEL (parent): $\geq 1\,000$ mg/kg NOAEL (F1): 1 000 mg/kg ; NOAEL (F2): None. (Rat ; Female, Male ; Gavage (Oral)) ; Method: OECD 422 ; The product is not considered to affect fertility.

Teratogenicity: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): Not classified

NOAEL (terato): $\geq 1\,000$ mg/kg ; NOAEL (mater): $\geq 1\,000$ mg/kg (Rabbit ; Gavage (Oral)) ; Method: OECD 414

NOAEL (terato): $\geq 1\,000$ mg/kg ; NOAEL (mater): $\geq 1\,000$ mg/kg (Rat ; Gavage (Oral)) ; Method: OECD 414

Specific Target Organ Toxicity - Single Exposure:

Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6):

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

Specific Target Organ Toxicity - Repeated Exposure:

Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): Based on available data, the classification criteria are not met.

Aspiration Hazard:

Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): Based on available data, the classification criteria are not met.

11.2 Information on other hazards:

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Endocrine disrupting properties:

No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute toxicity:

Fish: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): LC 50 (Oncorhynchus mykiss; 96 h ; Flow through) : > 0,016 mg/l ; Method: OECD 204 ; No toxicity at the limit of solubility

Aquatic Invertebrates: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): EC 50 (Water flea (Daphnia magna); 48 h ; Flow through) : > 0,0029 mg/l ; Method: OECD 202 ; No toxicity at the limit of solubility

Aquatic plants: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): NOEC (growth rate) (Algae (Pseudokirchneriella subcapitata); 72 h ; Static) : >= 0,002 mg/l ; Method: OECD 201 ; No toxicity at the limit of solubility ErC50 (Algae (Pseudokirchneriella subcapitata); 72 h ; Static) : > 0,002 mg/l ; Method: OECD 201 ; No toxicity at the limit of solubility

Toxicity to microorganisms:

No data available.

Chronic Toxicity:

Fish: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): NOEC (Oncorhynchus mykiss; 90 d ; Flow through) : >= 0,014 mg/l ; Method: OECD 210 ; No toxicity at the limit of solubility

Aquatic Invertebrates: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): NOEC (Water flea (Daphnia magna); 21 d ; semi-static) : >= 0,0046 mg/l ; Method: OECD 211 ; No toxicity at the limit of solubility

12.2 Persistence and Degradability:

Biodegradation: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): 4,5 % (activated sludge, domestic, non-adapted ; 28 d) ; Method: OECD 310 The product is not readily biodegradable.

BOD/COD Ratio:

No data available.

12.3 Bioaccumulative potential:

Bioconcentration Factor (BCF): Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6): Bioconcentration Factor (BCF): 2 860 (Fathead Minnow ; 49 d) ; Method: OECD 305 ; Has the potential to bioaccumulate. Partition coefficient

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Partition coefficient (n-octanol/water): Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): Log Kow: 8,87 (23 °C)

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment: Based on our knowledge of the composition information:

DODECAMETHYLCYCLOHEXASILOXANE (CAS-No. 540-97-6): Meets vPvB criteria (REACH (1907/2006) Ax XIII)

12.6 Endocrine disrupting properties:

No data available.

12.7 Other adverse effects:

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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 Packaging:

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.

SECTION 14: Transport information

ADR:

Not regulated.

AND:

Not regulated.

RID:

Not regulated.

IMDG / IMO:

Not regulated.

IATA:

Not regulated.

SECTION 15: Regulatory information

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

EU Regulations:

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:

None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:

None present or none present in regulated quantities.

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EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: None present or none present in regulated quantities.

EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17: None present or none present in regulated quantities.

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Chemical name	CAS-No.	Concentration	Additional Information:
Dodecamethylcyclotetrasiloxane	540-97-6	0,1 - 1,0%	very Persistent and very Bioaccumulative (vPvB)

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: None present or none present in regulated quantities.

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: None present or none present in regulated quantities.

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: None present or none present in regulated quantities.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable.

National Regulations: Wassergefährdungs-klasse (WGK): WGK 1: schwach wassergefährdend. Einstufung nach AwSV, Anlage 1 (5.2)

Water Hazard Class (WGK): WGK 1: slightly water-endangering. Classification according to AwSV

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15.2 Chemical safety assessment:

As this product is not classified as hazardous, a chemical safety assessment is not required. For safe use information, please refer to section 8 of this SDS.

Inventory Status

Australia Industrial Chem. Act (AIC):
Canada DSL Inventory List:
China Inv. Existing Chemical Substances:
Japan (ENCS) List:
Korea Existing Chemicals Inv. (KECI):
New Zealand Inventory of Chemicals:
Philippines PICCS:
Taiwan Chemical Substance Inventory:
US TSCA Inventory:
EINECS, ELINCS or NLP:

On or in compliance with the inventory
On or in compliance with the inventory
On or in compliance with the inventory
Not in compliance with the inventory.
On or in compliance with the inventory
On or in compliance with the inventory
On or in compliance with the inventory
On or in compliance with the inventory
On or in compliance with the inventory
On or in compliance with the inventory

SECTION 16: Other information

Revision Information:

SECTION 15:

Modification:

Regulatory information

Abbreviations and acronyms:

CLP: Regulation No. 1272/2008.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
NOAEL: No Observable Adverse Effect Level
LOAEL: Lowest Observable Adverse Effect Level
ED: Endocrine Disruptor
SVHC: Listed on the Candidate List of substances of very high concern (SVHC)

Issue Date:

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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