UltraSil Bite

Elastomeric impression material

Material safety data sheet (MSDS)
Version 1.0 / EN

10/01/2021

CONTENT

SECTION 1: PRODUCT AND COMPANY INFORMATION

1.1. Product identifier

Product Name	DSI UltraSil Bite / Clear.

Structure

Mixtures	Mixture of vinyl polysiloxane, fillers, additives

1.2. Details of the supplier of the safety data sheet:

Company Name	DSI Ltd.
Company Address	59 haAvoda str., Ashdod 7706300 Israel
Contact Name	Shlomi Krasner
Phone / Fax	+972.893.172.35
E-mail	info@dsisrael.com

Emergency telephone number:

Phone / Fax	+972.893.172.35

SECTION 2: INFORMATION ON COMPOSITION AND SUBSTANCES

2.1. General information:

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	Notes
Cristobalite	<=60%	14464-46-1	238-455-4		#
White mineral oil (petroleum)	<=8%	8042-47-5			#
Kieselguhr, soda ash flux-calcined	<=3%	68855-54-9			

2.2. Classification:

Chemical name	Classification		Notes
Cristobalite	DPD:	Xn; R48/20	
White mineral oil (petroleum)	DPD:	Xn; R65	
	CLP:	Asp. Tox. 1;H304	
Kieselguhr, soda ash flux-calcined	DPD:	Xn; R48/20	

DPD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

SECTION 3: HAZARDS IDENTIFICATION

3.1. Physical hazards
Combustible.

3.2. Health hazards
Inhalation:
Quartz: When encapsulated in polymer, it is not expected to pose a health hazard when processed under normal conditions of use.
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.

SECTION 4: FIRST AID MEASURES

4.1. General
Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.

4.2. Description of first aid measures
Inhalation: Not relevant.
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.

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

4.4. Indication of any immediate medical attention and special treatment needed
Hazards: No specific recommendations.
Treatment: No specific recommendations.

SECTION 5: MEASURES AND MEANS OF MAINTENANCE OF FIRE SAFETY

5.1. General fire hazards
No specific recommendations.

5.2. Extinguishing media
Suitable extinguishing media: Extinguish with foam, carbon dioxide or dry powder. Water spray.

5.3. Unsuitable extinguishing media: None known.

5.4. Special hazards arising from the substance or mixture: Combustible. For further information, refer to section 10: “Stability and Reactivity”.

5.5. Advice for firefighters Special Fire Fighting Procedures: Water spray should be used to cool containers.

5.6. 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: Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

6.2. Environmental Precautions
Collect spillage. Do not discharge into drains, water courses or onto the ground.

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. Incinerate in suitable combustion chamber.

6.4. Notification Procedures:
Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the MSDS.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling: No specific precautions.

7.2. Conditions for safe storage, including any incompatibilities: No special storage precautions noted. Material is stable under normal conditions. Avoid contact with oxidizing agents.
Suitable containers:polyethylene. Plastic lined steel drum.

7.3. Specific end use(s): No specific recommendations.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits
Quartz : When encapsulated in polymer, it is not expected to pose a health hazard when processed under normal conditions of use.

Chemical name	Type	Exposure Limit values	Source
White mineral oil (petroleum) - inhalable fraction	TWA	5mg/m^3	Italy. OELs (2009)

8.2. Exposure controls:
Appropriate engineering controls: No special precautions.

8.3. Individual protection measures, such as personal protective equipment

General information: No specific precautions.
Eye/face protection: Safety Glasses
Skin protection:
Hand protection: Use protective gloves made of: Nitrile. Polyvinyl chloride (PVC). Rubber or plastic.
Other: No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
Respiratory Protection: No specific precautions.
Hygiene measures: Provide eyewash station and safety shower.
Environmental Controls: No data available.

SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

9.1. Information on basic physical and chemical properties:

Appearance	
Physical State:	Paste
Form:	No data available.
Color:	Pale purple / Clear
Odor:	Odorless
Odor Threshold:	No data available.
pH:	Not applicable
Melting 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 (%)–:	No data available.
Flammability Limit - Lower (%)–:	No data available.
Vapor pressure:	< 0,1 hPa (20 °C)
Vapor density (air=1):	No data available.
Relative density: 1,55 (20 °C)	Approximate
Solubility(ies)	
Solubility in Water:	Practically Insoluble
Solubility (other):	Diethylether.: Miscible (in all proportions).
Common organic 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.
Autoignition Temperature:	> 400 °C
Decomposition Temperature:	> 200 °C
Viscosity:	No data available.
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

10.1. 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.

10.2. Hazardous decomposition products:
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. 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).

11.2. Information on toxicological effects:

Acute Toxicity:	
Oral:	
Product:	No effects expected (assessment based on ingredients).
Dermal:	
Product:	No effects expected (assessment based on ingredients).

11.3. Specified substance(s):

Cristobalite	No data available.
White mineral oil (petroleum)	No data available.
Kieselguhr, soda ash fluxcalcined	No data available.

Inhalation:
Product: No effects expected (assessment based on ingredients).
Repeated dose toxicity:
Product: No effects expected (assessment based on ingredients).
Skin corrosion/irritation:
Product: No effects expected (assessment based on ingredients).
irritation:
Product: No effects expected (assessment based on ingredients).
Respiratory or skin sensitization:
Product: No effects expected (assessment based on ingredients).

11.4. Germ cell mutagenicity
In vitro:
Product: No effects expected (assessment based on ingredients).
In vivo:
Product: No effects expected (assessment based on ingredients).
Carcinogenicity:
Product: No effects expected (assessment based on ingredients).
Reproductive toxicity:
Product: No effects expected (assessment based on ingredients).
Specific target organ toxicity - single exposure:
Product: No effects expected (assessment based on ingredients).
Specific target organ toxicity - repeated exposure:
Product: No effects expected (assessment based on ingredients).
Aspiration hazard:
Product: No effects expected (assessment based on ingredients).
Other adverse effects: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Acute toxicity:
Fish:
Product: No effects expected (assessment based on ingredients).
Aquatic invertebrates:
Product: No effects expected (assessment based on ingredients).
Chronic Toxicity:
Fish:
Product: No effects expected (assessment based on ingredients).

Aquatic invertebrates:	
Product:	No effects expected (assessment based on ingredients).
Toxicity to Aquatic Plants:	
Product:	No effects expected (assessment based on ingredients).

12.2. Persistence and degradability:

Biodegradation:	
Product:	Not applicable
BOD/COD ratio:	
Product:	No data available.
Specified substance(s):	
Cristobalite	No data available.
White mineral oil (petroleum)	No data available.
Kieselguhr, soda ash fluxcalcined	No data available.
Bioaccumulation potential:	No date available

12.3. Effect of the determination of the PTB-and vPvB-Report:
If the material causes hormonal effects or prevents them is unknown to us.

SECTION 13: DISPOSAL CONSIDERATION

13.1. Waste treatment methods
General information
The user's attention is drawn to the possible existence of local regulations regarding disposal.

13.2. 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 in suitable combustion chamber. 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

14.1. Nisin is not considered dangerous according to ADR RID IMCO and IATA.

DOT-shipping Name	NO regulated
ICAO/IATA-shipping Name	NO regulated
IMDG-shipping Name	NO regulated
ADR/RID-shipping Name	NO regulated

SECTION 15: OTHER INFORMATION

Since the working conditions of the final user are unknown, the information presented in this safety data sheet is based on the current level of our knowledge, based on national and general standards.
The product should not be used for any other purpose than those indicated under heading without first receiving written instructions for use. The user must take all necessary measures to comply with the requirements and rules of the law. The information in this safety data sheet should be considered as a description of the safety requirements that apply to our product and does not guarantee its properties.