

DSI UniLite Nano

Light Cured Restorative Nanohybrid Composite

Material safety data sheet (MSDS)
Version 1.0 / EN

10/08/2022

SECTION 1: PRODUCT AND COMPANY INFORMATION

1.1. Product identifier

Product Name	DSI UniLite Nano Hybrid Composite
Intended use	permanent filling material
Structure	Paste, tooth-colored various shade

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: COMPOSITION / INFORMATION ON INGREDIENTS

2.1. Chemical characterization:

COMPONENTS	C.A.S.	% by Wt
Bis GMA	1565-94-2	5-10
UDMA	72869-86-4	1-5
TEGDMA	109-16-0	1-5
Barium glass powder	65997-17-3	75-80
Pigment	-	traces

SECTION 3: HAZARDS IDENTIFICATION

Classification according to Directive 1999/45/EC

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

R phrases : R36/37/38,R43

Classification according to Regulation (EC) No 1272/2008 [CLP] Health : Eye Irritation

R&S statement(s):

R36/37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitization by skin contact.

Hazard statement(s)

H316: Causes mild skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

Precautionary statement(s)

Prevention

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P305: IF IN EYES:

P351: Rinse cautiously with water for several minutes.

P337+P313: If eye irritation persists: Get medical advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P315: Get immediate medical advice/attention.

P363: Wash contaminated clothing before reuse.

P301: IF SWALLOWED:

P331: Do NOT induce vomiting.

P304: IF INHALED: P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P340: Remove person to fresh air and keep comfortable for breathing.

Storage : P103: Read label before use.

Disposal : P501: Dispose of in compliance with governmental regulation. (EC 1975L0442-20/11/2003)

Potential Health Effects

Eye Contact: Moderate Eye Irritation: Signs/symptoms may include localized redness, swelling, pain, tearing and blurred or hazy vision.

Skin Contact: Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching and dryness.

Allergic Skin Reaction (non photo induced): Signs/symptoms may include redness, swelling, blistering and itching

Inhalation: Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

Ingestion: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

SECTION 4: FIRST AID MEASURES

The following first aid recommendations are based on assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms persist, get medical attention.

If swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim 2 glasses of water. Never give anything by mouth to unconscious person. Get medical attention.

SECTION 5: MEASURES AND MEANS OF MAINTENANCE OF FIRE SAFETY

Auto ignition temperature	Not data available
Flash point	Not applicable
Flammable Limits – LEL	Not applicable
Flammable Limits – UEL	Not applicable
Unusual Fire and Explosion Hazards:	No unusual fire or explosion hazards anticipated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible. Observe precautions from other sections. Collect as much of the spilled material as possible. Clean up residue.

SECTION 7: HANDLING AND STORAGE

Handling

Avoid eye contact. Avoid skin contact. A no touch technique is recommended. If skin contact occurs, wash skin with soap and water.

Storage

Store in a cool, dry place. Store away from heat. Store away from oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Use in a well-ventilated area.

Personal Protective Equipment (PPE)

Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Safety Glasses with side shields.

Skin Protection

Avoid skin contact. See Section 7.1 for additional information on skin protection.

Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

Prevention of Swallowing

Do not ingest. Wash hands after handling and before eating.

Exposure Guidelines

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

9.1. Information on basic physical and chemical properties:

Specific Physical Form:	Paste
Color	tooth-colored various shade
General Physical Form:	Solid
Auto ignition temperature	No Data Available
Flash Point	Not flammable
Flammable Limits	Not Applicable
Boiling point	Not Applicable
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable
pH	Not Applicable
Melting point	No Data Available
Evaporation rate	Not Applicable
Viscosity	No Data Available

SECTION 10: STABILITY AND REACTIVITY

Stability :	Stable.
Materials and Conditions to Avoid:	
Incompatible Materials :	Strong oxidizing agents
Hazardous Polymerization :	Hazardous polymerization will not occur.
Reactivity :	Light exposure initiates polymerization
Chemical stability :	Stable when stored and handled under recommended conditions.
Hazardous polymerization :	None
Conditions to avoid :	Light
Incompatible materials :	None known

SECTION 11: TOXICOLOGICAL INFORMATION

Non toxic and high biocompatibility.

Device is biocompatible when used as directed by dental professionals per ISO 10993-1.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Not determined.

CHEMICAL FATE INFORMATION: Not determined.

SECTION 13: DISPOSAL CONSIDERATION

Waste Disposal Method:

Dispose of completely cured (or polymerized) wastes in a sanitary landfill.

As a disposal alternative, incinerate uncured product in an industrial or commercial incinerator in the presence of a combustible material.

EPA Hazardous Waste Number (RCRA): Not regulated

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

UN-Number

ADR, ADN, IMDG, IATA Void

UN proper shipping name

ADR, ADN, IMDG, IATA Void

Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class Void

Packing group

ADR, IMDG, IATA Void

Environmental hazards:

Marine pollutant: No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

Hazard Categories:

Fire Hazard - No

Pressure Hazard – No

Reactivity Hazard - No

Immediate Hazard - No

Delayed Hazard – No

Additional information : This product is not considered dangerous for transportation

SECTION 16: OTHER INFORMATION

Relevant R-phrases and/or H- statements

R22: Harmful if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes.

R43: May cause sensitization by skin contact. Eye Irr., Cat. 2: Eye Irritation, Category 2

STOT SE, Cat 3: Target Organ Toxicity (Single exposure), respiratory tract, Category 3

Skin Irr., Cat. 2: Skin Irritation, Category 2

Skin Sens., Cat. 1: Skin Sensitization, Category 1

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation

Disclaimer:

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.