

<b>Safety Data Sheet</b> In accordance with the Resolution (EU) No. 1907/2006	<b>Hybrid epoxy grout (suture filler)</b> <b>DIAMANT STAR LVL 100</b>	Total pages 7
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## 1. IDENTIFICATION OF CHEMICAL PRODUCTS AND INFORMATION ON THE MANUFACTURER AND/OR SUPPLIER

<b>Technical name</b>	<b>Hybrid epoxy grout (suture filler) DIAMANT STAR LVL 100.</b>
<b>Brief recommendations for use</b>	<p>It is used for filling the seams of glass mosaics, ceramic tiles, stone and paving stone materials used in atmospheric conditions and indoors.</p> <p>The grout is intended for grouting joints with a permissible width of 1 to 10 mm for interior and exterior work in bathrooms, kitchens, wet rooms, swimming pools, hammams, production workshops, food processing plants, medical institutions, public areas, including in high traffic areas. Filling the seams is carried out, depending on the type of packaging, using a rubber spatula or using a standard gun (manual, electric or pneumatic) directly into the seams.</p>
<b>Name of the manufacturing organization</b>	Limited Liability Company "Anturazh"
<b>Legal address</b>	141420, Russian Federation, Moscow region, Khimki, Skhodnya microdistrict, st. Nekrasova, house 2, building 77, floor 4, part of the room 23
<b>Production address:</b>	141420, Russia, Moscow region, Khimki, md. Skhodnya, Nekrasova str., house 2, floor 1, part of room 55
<b>Telephone for emergency consultation</b>	8 (499) 394-02-60
<b>E-mail</b>	anturazh.co@mail.ru
<b>Web-site</b>	zatirkdiamant.ru

## 2. GHS HAZARD IDENTIFICATION

<b>Classification</b>	Acute toxicity, oral, Category 4; Skin corrosion/irritation, Category 2; Sensitization, Skin, Category 1; Serious eye damage/eye irritation, Category 1; Germ cell mutagenicity, Category 2; Carcinogenicity, Category 1B; Hazardous to the aquatic environment, long-term hazard, Category 3.
<b>Warning Marking</b>	Danger.
<b>Signal word</b>	Danger.
<b>Danger Symbols</b>	
<b>H-phrases</b>	H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H341: Suspected of causing genetic defects. H350: May cause cancer.
<b>P-phrases</b>	H412: Harmful to aquatic life with long lasting effects. P201+P202: Before use, undergo training on the operation of the supplied product and read the safety instructions. P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P352: IF ON SKIN: wash with plenty of water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P333+P311: IF SKIN irritation or redness occurs, seek medical

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attention.

P362+364: Take off immediately all contaminated clothing and wash it before reuse.

P405: Store locked up.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component (INCI)	Concentration (%)	Number CAS	Number EC
Glass beads 100-200	80,0	-	-
Commercial classified information	6,0	Commercial classified information	-
Epoxy resin	5,0	25068-38-6	500-033-5
3-aminopropyltriethoxysilane	4,0	919-30-2	213-048-4
epoxy functional silane/3-glycidoxypropyltrimethoxysilane	3,0	2530-83-8	219-784-2
Glycidyl ester of neodecanoic (versatic) acid 238-263	2,0	26761-45-5	-

### 4. FIRST AID MEASURES

<b>In case of contact with eyes</b>	Rinse eyes carefully with water for several minutes with the palpebral fissure open. Remove contact lenses if you use them and if it is easy to do. Continue rinsing eyes. Seek medical attention immediately.
<b>When exposed to skin</b>	Rinse with plenty of water. If skin irritation or redness occurs, seek medical attention.
<b>If swallowed</b>	Drink plenty of fluids, activated charcoal, saline laxative. Rinse your mouth. Seek medical help if necessary.
<b>Inhalation</b>	Fresh air, peace. Seek medical help if you feel unwell.
<b>The most important symptoms</b>	In case of contact with eyes, may cause irreversible consequences. In case of contact with skin, it causes irritation and an allergic reaction.
<b>The potential hazardous effects</b>	May cause genetic defects and cancer.

### 5. FIRE FIGHTING MEASURES

<b>Flammability</b>	Flammable liquid.
<b>Thermal decomposition products</b>	Under fire conditions, grout decomposes to produce toxic gases (carbon oxides, flue gases, nitrogen oxides (NO, NO <sub>2</sub> , etc.), hydrocarbons, isocyanate and hydrogen cyanide vapors, as well as other unidentified organic and inorganic compounds).
<b>Fire and explosion safety</b>	<p>Fire and explosion hazardous product. There is no data on products as a whole. Data is given by component.</p> <p><i>Epoxy resin:</i>            Flash point in closed cup: 133 °C;            Ignition temperature: 290 °C;            Self-ignition temperature: 570 °C;            Temperature limits of flame propagation: 122-225 °C.</p> <p><i>Glycidyl ester of neodecanoic acid:</i>            Flash point in closed cup: 57 °C;            Ignition temperature: 90 °C.</p> <p><i>3-triethoxysilylpropan-1-amine:</i>            Flash point in a closed crucible: 57-90 °C.</p> <p><i>3-Glycidoxy-propyl-methoxysilane:</i>            Flash point in closed crucible: 110 °C;            Ignition temperature: 135 °C.</p>
<b>Extinguishing Methods</b>	Sprayed water, air-mechanical foam, powders. Do not use compact jets of water to avoid splashing the product and spreading a fire.

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### Extinguishing Specificity

In the event of a fire, vacate the area and remove all people nearby. Without proper training, do not take actions that put your life in danger. If there is no risk, remove product away from fire.

Do not use direct water jets on burning product; they may cause splashing and fire spread. Extinguish from a safe distance, cool containers with finely sprayed water. In the event of a fire threat, containers containing the product should be cooled with water.

Firefighter's combat clothing (jacket and trousers with removable heat-insulating linings) complete with a fireman's rescue belt, mittens or gloves, a fireman's helmet, and special safety shoes.

## 6. MEASURES IN CASE OF ACCIDENTAL RELEASE/LEAKAGE

### Individual precautions

Remove outsiders from the leak/discharge site. Observe safety measures. Eliminate the sources of fire. Do not smoke in places of work with products and storage. Avoid contact with eyes and ingestion. Production personnel should be provided with overalls and personal protective equipment (respirator, gloves, glasses).

### Environmental precautions

Periodic monitoring of the content of harmful substances in the air of the working area; cleaning the air of industrial premises to the established standards before discharge into the atmosphere. Do not allow the product to enter surface or groundwater, sewage.

### Contamination and cleaning

If there is a slight spill of grout in the production area, it should be collected in a separate container, the spill area should be covered with dry inorganic adsorbent or wiped with a dry cloth. When a product is spilled in an open area, the surface layer of soil with contaminants is cut off and removed to specially designated areas, followed by neutralization in accordance with SanPiN 2.1.3684-21.

## 7. HANDLING AND STORAGE

### Precautions and safe handling

Avoid getting the product in the eyes or inside the body. Observe the rules of personal and industrial hygiene. Avoid eating at the workplace. After finishing work and before eating, wash your hands with warm water and soap. Keep product away from heat. No smoking in areas where products are handled and stored.

Industrial premises must be equipped with general exchange supply and exhaust ventilation.

Sealing of containers, equipment.

Persons associated with the production of products must be provided with overalls and personal protective equipment – respirator, rubber gloves, safety glasses.

Contaminated clothing should be washed before reuse. Contaminated work clothing should not be allowed out of the workplace.

### Precautionary measures

#### Safe storage

The grout is packaged in sealed polymer tubes or in polymer buckets with a separator in the form of a plastic film to minimize contact with air.

The grout is stored in covered, dry rooms at temperatures from 5 °C to 35 °C, at a distance of at least 1 m from heating devices under conditions that exclude the action of aggressive environments.

Storage near open fire and direct sunlight is not allowed.

Shelf life - 18 months from the date of manufacture.

## 8. INDIVIDUAL PROTECTIVE EQUIPMENT

### Individual protection

#### Equipment

#### Control

Industrial premises should be equipped with supply and exhaust ventilation.

When working, it is necessary to use special clothing and personal protective equipment:

- filtering respirators in accordance with GOST 12.4.296 with filters of grades A, AX or combined with the appropriate protection classes;
- workwear of types Z and Vn according to GOST 12.4.103 or type 3 according to GOST 12.4.258;
- boots with leather uppers in accordance with GOST 12.4.137;
- gloves in accordance with GOST 12.4.252 or GOST 20010;
- closed safety glasses in accordance with GOST 12.4.253.

### Individual protective equipment

Eye protection



Respiratory protection



Hand skin protection  
Overalls



Special tools Absent

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Specifications	Indicators
Appearance	Colorless or tinted paste
Odor	No noticeable odor
Relative density, g/cm <sup>3</sup>	1,6
Solubility	Insoluble in water
Viscosity	70 000 – 100 000

**10. STABILITY AND REACTIVITY**

**Chemical stability** The product is chemically stable under the conditions of storage, transportation and operation.

**Solubility** Insoluble in water.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity** **Information on the toxicity of products in general is lacking.** Information is given by component.

*Epoxy resin:*  
 LD50 Oral - Rat - 13600 mg/kg  
 Acute toxicity estimates Oral - 1800 mg/kg.

*3-aminopropyltriethoxysilane:*  
 LD50 Oral - Rat - 1780 mg/kg;  
 LC50 Inhalation - Rat - male - 6 h > 5 ppm – vapor;  
 LD50 Dermal - Rabbit - 4290 mg/kg

*epoxy functional silane/3-glycidoxypropyltrimethoxysilane:*  
 LD50 Oral - Rat - male and female - 8025 mg/kg;

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LC50 Inhalation - Rat - male and female - 4 h > 5,3 mg/l – Aerosol;  
 LD50 Dermal - Rabbit - male - 4248 mg/kg.

*Glycidyl ester of neodecanoic (versatic) acid 238-263:*

LD50 Oral - Rat (male/female) > 2 000 mg/kg;

LC50 Inhalation - Rat > 240 mg/m<sup>3</sup> air;

LD50 Dermal - Rat (male/female) - > 2 000 mg/kg.

**Respiratory or skin sensitization**

Products may have a sensitizing effect upon contact with skin. The skin-resorptive effect has not been established.

**Mutagenicity**

Neodecanoic acid glycidyl ester 238-263 is suspected of causing genetic defects.

**Carcinogenicity**

Epoxy resin is a carcinogen.

**Reproductive toxicity**

There is no data to indicate that the product or any components present in amounts greater than 0.1% are reprotoxic.

**Specific target organ toxicity - single exposure**

Shall not be classified as a specific target organ toxicant.

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant.

**Aspiration hazard**

The product is not classified as presenting an aspiration hazard.

**Chronic effects**

No information

## 12. ECOLOGICAL INFORMATION

**Aquatic microorganisms**

**Information on the toxicity of products in general is lacking.**  
 Information is given by component.

*3-aminopropyltriethoxysilane:*

LC50 - Danio rerio (zebra fish) > 934 mg/l - 96 h;

EC50 - Daphnia magna (Water flea) - 331 mg/l - 48 h;

ErC50 - Desmodesmus subspicatus (green algae) > 1.000 mg/l - 72 h;

EC50 - Pseudomonas putida - 43 mg/l - 5,75 h.

*epoxy functional silane 3-glycidoxypropyltrimethoxysilane:*

LC50 - Cyprinus carpio (Carp) - 55 mg/l - 96 h;

LC50 - Simocephalus vetulus - 324 mg/l - 48 h.;

ErC50 - Pseudokirchneriella subcapitata (green algae) - 350 mg/l - 96 h;

EC50 - activated sludge > 100 mg/l - 3 h;

semi-static test NOEC - Daphnia magna (Water flea) >= 100 mg/l - 21d;

*Glycidyl ester of neodecanoic (versatic) acid 238-263:*

LC50 - Oncorhynchus mykiss (previous name: Salmo gairdneri) - 5 mg/L - 96 h;

EC50 - Daphnia magna - 4,8 mg/L - 48 h;

EC50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) - 2,9 mg/L - 72 h;

EC50 - Sludge Treatment - 3,11 mg/l - 3 h.

NOEC - activated sludge, domestic - 500 mg/L - 3 h.

**Persistence and degradability**

No information.

**Bioaccumulative potential**

No information.

**Soil mobility**

No information.

**Other side effects**

No other adverse environmental impacts (eg ozone depletion, endocrine disruption, global warming potential) are expected from this product.

## 13. WASTE MANAGEMENT

Solid waste in the production process (used containers, packaging, workwear, etc.) must be disposed of in places where household garbage is collected on a contractual basis with an organization that has permits for this type of activity.

Do not allow undiluted products to enter surface or groundwater wastewater and sewers.

## 14. TRANSPORT INFORMATION

**14.1 Number UN**

Not classified as dangerous goods by the UN.

**14.2 Proper shipping and transport names**

*Proper shipping name:*  
Absent

*Shipping name:*  
Hybrid epoxy grout (suture filler) DIAMANT STAR LVL 100.

**14.3 Types of transport risks**

*International Civil Aviation  
Organization/International Air Transport  
Association  
(ICAO / IATA)*

Danger / Class / Division Absent  
Environmental hazards  
Signs

*International Maritime Dangerous Goods Code  
(IMDG) code*

Danger / Class / Division Absent  
Danger to the aquatic environment  
Signs

*The Intergovernmental Organisation for  
International Carriage by Rail(MKMPOG)  
/European agreement concerning the transport of  
dangerous goods (DOPOG)*

Danger / Class / Division Absent  
Signs  
Code

**14.4 Group packing**

Not regulated

**14.5 Environmental risks**

Absent

*14.6 Environmental risks with the app. II to the  
International Convention for the prevention of  
pollution from ships (MARPOL) 73/78 and code  
International Code for the Construction and  
Equipment of Ships, Carriers Dangerous Chemicals in  
Bulk (MRG)*

Does not concern

**14.7 Special precautions**

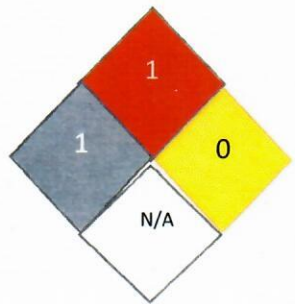
Not required

**15. REGULATORY INFORMATION**

HMIS

	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	F

NFPA



REACH

GHS

MDGC

ICAO/IATA

Application II MARPOL 73/78

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ADR

### 16. ADDITIONAL INFORMATION

We believe that the information contained here is current as of the date of this material safety data Sheet and is offered in good faith. Since the use of this information and these opinions and terms of use of the product are not under control Limited Liability Company "Anturazh" user's obligation to determine the conditions for safe use of the product.

Collected information:

Limited Liability Company "Anturazh".

Current date:

07.06.2024

Disclaimer:

The information provided in this Material Safety Data Sheet is based on data that is believed to be accurate at the date of preparation of this Material Safety Data Sheet. No liability is accepted for any damage or injury caused by abnormal use or due to non-compliance with recommended practices. The above information and the product are provided that the person receiving them must make their own determination as to the suitability of the product for their specific purpose and provided that they accept the risk of their use. In addition, no permission is granted or implied for the application of any patented invention without a license. The above information is believed to be accurate and reflect the information available to the manufacturer. However, this does not entail a guarantee for all the specific characteristics of the goods and does not serve as a basis for the emergence of contractual relations from a legal point of view. Current laws and regulations must be respected by the manufacturer's successor at their own risk.

General director  
 Limited Liability Company "Anturazh"  
 / Tyunkov S.V. /

Print place

