

SAFETY DATA SHEET

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	SAFETY DATA SHEET		SDS No.	
			Version:	01
			Revision:	01
			Drawn up on:	September 2nd, 2020

IN ACCORDANCE WITH REGULATION (EC) No. 1907/2006 AS AMENDED

**SECTION 1
IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY**

1.1. Product Identification

Trade name:	Nasier Lapideo L01
Product code:	L01 (2070002, 2070010, 2070040)

1.2. Relevant identified uses of the mixture and uses advised against

Relevant use(s):	Detergent used for the removal of biofilms during the restoration process. Professional Use
Use(s) advised against:	Any use different than the use deemed relevant.

1.3. Details of the supplier of the Safety Data Sheet

Provider:	Brenta S.r.l. Address Viale Milano, 26 - 36075 Montecchio Maggiore – Vicenza Telephone +39 0444 433300 number Fax number
E-mail address of the competent person responsible for the Safety Data Sheet: nasier@brenta.net	

1.4. Emergency telephone number

Country	Telephone number
Austria	+43 1406 4343
Belgium	07 0245 245
Bulgaria	+35 9291 54233
Croatia	01 2348 342
Cyprus	1401
Czech Republic	+42 022 4919293 /+42 022 4915402
Denmark	+45 8212 1212
Estonia	16662
Finland	08 00147 111 / 09 471 977
France	+33 (0)145 42 5959
Germany	112 / 116117
Greece	(0030) 210 779 3777
Hungary	+36 8020 1199
Iceland	543 2222 / 543 1000 / 112

	SAFETY DATA SHEET	SDS No.	
		Version:	01
		Revision:	01
		Drawn up on:	September 2nd, 2020

Country	Telephone number
Latvia	+371 6704 2473
Liechtenstein	-
Lithuania	+370 (85) 2362 052
Luxembourg	(+352) 8002-5500
Malta	21 224 071
The Netherlands	+31(0)30 274 8888
Norway	22 591 300
Poland	-
Portugal	+351 800 250 250
Romania	+40 2131 83606
Slovakia	+421 2 5477 4166
Slovenia	112
Spain	34 9156 20420
Sweden	112

SECTION 2

2.1 Mixture classification

The product is not classified as hazardous under Regulation (EC) No. 1272/2008.

Further information on safety hazards, health and/or the environment are reported in section 9, 11 and 12 of this data sheet.

CLASSIFICATION ACCORDING TO REGULATION (EC) No. 1272/2008:

<i>Hazard class</i>	<i>Hazard category</i>	<i>Hazard statements</i>
-	-	-

Main adverse physicochemical effects on human health and the environment:

Physicochemical: no adverse effects are given.

Human health: the mixture contains a respiratory sensitizer beyond the trigger threshold value. Subjects already sensitized might experience respiratory adverse effects.

Environment: the mixture is not classified as damaging to the environment.

2.2 Label elements

LABELING ACCORDING TO REGULATION (EC) No. 1272/2008.

Hazard pictogram(s):	No hazard pictogram.
Warning:	No warning.
Hazard statement(s):	No hazard statement.

	SAFETY DATA SHEET		SDS No.	
			Version:	01
			Revision:	01
			Drawn up on:	September 2nd, 2020

Precautionary statements:	No precautionary statement.
Additional information:	EUH208: Contains trypsin. May cause an allergic reaction. EUH210: Safety Data Sheet available on request.

2.3 Other hazards

The components of the mixture do not meet the PBT or vPvB criteria.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

The mixture is composed of a cellulose derivative-based aqueous gel.

Name of the substance	CAS Number	EC Number	Concentration (% p/p)	Classification (1272/2008/CE)*
Zeolites	1318-02-1	215-283-8	1 – 5 %	-
Trypsin (Index Number: 647-010-00-7)	9002-07-7	232-650-8	≤ 0,1 %	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319 STOT SE 3 – H335 Resp. Sens. 1 – H334

*The full text of the hazard statements is reported in Section 16.

	SAFETY DATA SHEET	SDS No.	
		Version:	01
		Revision:	01
		Drawn up on:	September 2nd, 2020

**SECTION 4
FIRST-AID MEASURES**

4.1 Description of the first-aid measures

<i>Eye contact:</i>	Flush the eyes with water for at least 15 minutes. Keep eye wide open while rinsing. Remove any contact lenses. Consult a physician in case of irritation.
<i>Skin contact:</i>	Wash the affected body part with soap and plenty of water until complete removal of the product. Consult a physician in case of irritation.
<i>Inhalation:</i>	Remove the victim to fresh air, in a well ventilated area. Consult a physician in case of illness.
<i>Ingestion:</i>	If the victim is conscious, rinse mouth with plenty of water. Consult a physician in case of illness.

4.2 Most important symptoms and effects, both acute and delayed

Direct eye contact may cause irritation.

Direct skin contact may cause irritation, redness. Ingestion may cause abdominal pain.

Inhalation of the mixture may cause adverse effects in subjects sensitized to enzymes, in particular to trypsin. Be wary of specific symptoms such as asthma and bronchoconstriction.

4.3 Indication of any immediate medical attention and special treatment needed

No known specific antidotes and contraindications.

**SECTION 5
FIRE-FIGHTING MEASURES**

5.1 Extinguishing media

<i>Suitable extinguishing media:</i>	The gel is composed mainly of water. Use extinguishing media suitable for the fire source, such as: atomized water, chemical powder, foam, carbonic anhydride.
<i>Unsuitable extinguishing media:</i>	No unsuitable extinguishing media given.

5.2 Special hazards arising from the mixture

May produce hazardous toxic fumes if burning.

	SAFETY DATA SHEET		SDS No.	
			Version:	01
			Revision:	01
			Drawn up on:	September 2nd, 2020

5.3 Advice for fire-fighters

<i>Advice on protective measures:</i>	Cool down the containers exposed to fire with water spray, even after extinguishing the flames. Remove container from fire area if you can do so without risk.
<i>Special Protective Equipment for the fire-fighters:</i>	Do not attempt to extinguish the fire without using a self-contained breathing apparatus (SCBA) and suitable protective clothing. Wear boots, gloves, overalls, eye and face protection, suitable breathing apparatuses complying with the relevant UNI/EN standards.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

<i>For those who do not intervene directly:</i>	Ensure proper ventilation. Wear suitable protective equipment (adequate protective clothing, rubber shoes, rubber or polythene gloves, protective goggles; (see section 8) to minimize exposure to the product. If, following risk assessment, it is deemed fit to adopt respiratory protective equipment, use masks equipped with a suitable filter.
<i>For those who intervene directly:</i>	Stop leak if it is not dangerous. Wear suitable protective equipment (see Section 8) to minimize exposure to the product.

6.2 Environmental precautions

In case of accidental release or spill, prevent the mixture from reaching watercourses, sewer systems, and underground watercourses. Ensure proper ventilation. If mixture has flown into a watercourse, the sewer system or has contaminated the soil or the vegetation, inform the competent authorities.

6.3 Methods and material for containment and cleaning up

Stop the leak as much as possible, wearing suitable protective equipment; put collected material into a clean container and dispose of it in accordance with the waste disposal regulations.

6.4 Reference to other sections

Consult sections 8 and 13 as well.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

	SAFETY DATA SHEET		SDS No.	
			Version:	01
			Revision:	01
			Drawn up on:	September 2nd, 2020

<i>Advice for handling:</i>	Handle in a well-ventilated place, away from flames and sparks and any ignition sources. Keep the product away from sewer drains, from surface and ground water. Avoid contact with incompatible material. Wear suitable Personal Protective Equipment (see Section 8).
<i>Occupational Hygiene Advice:</i>	Do not eat, drink or smoke while using the product. Wash your hands with soap and water after using it. Take off contaminated clothing and protective equipment before accessing refreshment areas.

7.2. Conditions for safe storage, including any incompatibilities

Store the product in the original containers, well closed and labeled with the product name, in a cool, dry place, away from ignition sources. Avoid exposure to light and protect from humidity. Keep away from incompatible material. Even empty containers can be dangerous, inasmuch as they can still contain residues of product. Room ventilation: well ventilated room.

Keep away from food and drinks.

7.3. Specific end uses

The specific end use, for restoration operations, provides for the handling of the gel product with an application by a brush or similar tool, directly on the surface to be cleaned.

**SECTION 8
EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1. Control parameters (1)

No EU or national occupational exposure limit values available for the substances contained in the product.

DERIVED NO-EFFECT LEVEL (DNEL):

Trypsin (DMEL)

Routes of exposure	Workers				Consumers			
	Long-term exposure		Short-term exposure		Long-term exposure		Short-term exposure	
	Systemic effects	Local effects	Systemic effects	Local effects	Systemic effects	Local effects	Systemic effects	Local effects
Oral (mg/kg bw/day)	-	-	-	-	-	-	-	-
Dermal (mg/kg bw/day)	-	-	-	-	-	-	-	-
Inhalation	-	60 ng/m3	-	-	-	15 ng/m3	-	-

	SAFETY DATA SHEET		SDS No.	
			Version:	01
			Revision:	01
			Drawn up on:	September 2nd, 2020

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Trypsin

Fresh water	Sea water	Water (intermittent releases)	Sludge treatment system	Fresh water sediments	Marine sediments	Soil	Predators (secondary poisoning)
2.5 µg/L	0.25 µg/L	25 µg/L	65 000 µg/L	-	-	-	-

Recommended monitoring procedures:

The measurement of exposure to substances in the workplace must be performed by standardized methods. (UNI EN 689:2019: Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with the occupational exposure limit values; UNI EN 482:2015: Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents) or, in the absence thereof, by suitable methods.

8.2. Exposure controls

8.2.1. SUITABLE TECHNICAL CONTROLS

Given the use of the product, i.e. application of the gel with a brush, and given its physical and chemical properties as gel, no evolution of gas/powders/aerosols is expected.

Suitable technical exposure control measures, to adopt at the workplace, must be selected and applied following the risk assessment performed by the employer, in relation to its own work activity (in accordance with Directive 98/24/EC transposed by the Legislative Decree No. 81 of April 9th, 2008 as amended).

8.2.2. PERSONAL PROTECTIVE MEASURES AS PERSONAL PROTECTIVE EQUIPMENT

If the results of such assessment show that the general and collective prevention measures are not enough to reduce the risk and if exposure to the substance cannot be prevented by other means, suitable personal protective equipment must be adopted, in compliance with the UNI/EN technical standards.

Eye / face protection: To reduce eye contact to a minimum, wear safety goggles according to the EN 166 standard.

Hand protection: Wear strong gloves, in compliance with the UNI EN standards.
Keep in mind the information given by the manufacturer in relation to permeability, penetration time, and the workplace conditions (mechanical stress, contact duration). The use of a suitable hand cream may contribute to prevent dry skin.
Wash hands and other exposed skin areas accurately with soap and water.

Other, body protection Choose the suitable protective means based on activity and exposure.

Respiratory protection: Adopt respiratory protective equipment in compliance with the relevant UNI EN standards.

8.2.3. ENVIRONMENTAL EXPOSURE CONTROLS

Avoid dispersion into the environment.

	SAFETY DATA SHEET	SDS No.	
		Version:	01
		Revision:	01
		Drawn up on:	September 2nd, 2020

**SECTION 9
PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

Appearance (physical state and color):	Water-based gel
Odor:	Odorless
pH:	8.5
Melting point / Freezing point:	Not available
Boiling point and boiling range:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Water solubility:	The gel is water based.
Solubility in organic solvents:	Not available
Octanol/water partition coefficient (Log Kow):	Not available
Autoignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Based on the composition and the chemical structure of the product, its explosive properties are excluded.
Oxidizing properties:	Based on the composition and the chemical structure of the product, its oxidizing properties are excluded.

9.2. Other safety information

No data available.

**SECTION 10
STABILITY AND REACTIVITY**

10.1. Reactivity

The mixture is not considered reactive under normal storage and use conditions.

10.2. Chemical stability

	SAFETY DATA SHEET		SDS No.	
			Version:	01
			Revision:	01
			Drawn up on:	September 2nd, 2020

The mixture is stable under normal storage and use conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions under normal storage and use conditions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Hydrofluoric acid, oxidizing agents, strong bases, amines and heavy metals.

10.6. Hazardous decomposition products

May produce hazardous toxic fumes if burning.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects (1)

Symptoms and effects for each route of exposure:

Dermal:	Direct skin contact may cause irritation, redness.
Oral:	Ingestion may cause abdominal pain.
Inhalation:	Inhalation of the mixture may cause adverse effects in subjects sensitized to enzymes, in particular to trypsin. Be wary of specific symptoms such as asthma and bronchoconstriction.
Eye contact:	Direct eye contact may cause irritation.

Information on toxicokinetics (Absorption, Distribution, Metabolism, Excretion):

Acute toxicity:

Oral:	No data available
Dermal:	No data available
Inhalation:	No data available

Skin corrosion/irritation:

Trypsin: irritant, in vivo rabbit test.

Serious eye damage/eye irritation:

Trypsin: irritant, in vivo rabbit test.

	SAFETY DATA SHEET		SDS No.	
			Version:	01
			Revision:	01
			Drawn up on:	September 2nd, 2020

Sensitization:

Skin:

Trypsin: no skin sensitization potential expected since, in general, enzymes do not show such type of effect.

Respiratory:

Trypsin: the substance is classified as respiratory sensitizer.

Germ cell mutagenicity:

Trypsin: the substance did not prove to be mutagenic in Ames test and chromosome aberration test.

Reproductive toxicity:

Trypsin: The substance did not prove to be toxic for reproduction.

Carcinogenicity:

Trypsin: The substance does not present carcinogenic effects.

STOT – single exposure:

No data available.

STOT – repeated exposure:

Trypsin: the substance was administered twice a day for 4 weeks, orally, to a group of rats in the following doses: 67 – 217 – 435 – 870 – 3420 - 6841 KMTU/kg/g (KMTU/g is the enzyme activity. Stomach erosion effects reported at maximum dose, NOAEL was therefore established at 3420 KMTU/kg/g, i.e. 1960 mg/kg/g.

Aspiration hazard:

No aspiration hazard expected.

Reason for missing classification:

The missing classification of the mixture in a certain hazard class is due to missing data, unavailability of information, non-conclusive or not enough data for the classification according to the criteria set in the specified regulations in this safety data sheet.

**SECTION 12
ECOLOGICAL INFORMATION**

12.1. Toxicity

Toxicity

Acute/chronic toxicity -
- fish:

Acute/chronic toxicity on crustaceans: EC50 (*Daphnia magna*) > 24.7 mg/L after 48h *Trypsin* (1)

Acute/chronic toxicity - algae: EC50 (*Pseudokirchneriella subcapitata*) > 24.7 mg/L after 72h (tested on sedolisin) *Trypsin* (1)

	SAFETY DATA SHEET		SDS No.	
			Version:	01
			Revision:	01
			Drawn up on:	September 2nd, 2020

12.2. Persistence and degradability

Trypsin is amply biodegradable, therefore persistence in the environment is not expected. Zeolites are minerals of natural origin and do not degrade.

12.3. Bioaccumulative potential

No bioaccumulation expected for any of the substances contained in the product, the enzymes such as trypsin are easily metabolized and the zeolites are not easily available to the living beings since they are derivatives of siliceous minerals.

12.4. Mobility in soil

No accumulation in soil expected, but rather as a final compartment, aqueous environmental compartments are expected.

12.5. Results of PBT and vPvB assessment

The substances contained in the product were not identified as PBT or vPvB.

12.6. Other adverse effects

No other adverse effects reported.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Observe the local and national legislation on waste disposal and the local and community regulations on waste recycling. Waste generated after the product use, residues or accidental spills must be disposed of in compliance with the local or national laws.

	SAFETY DATA SHEET	SDS No.	
		Version:	01
		Revision:	01
		Drawn up on:	September 2nd, 2020

SECTION 14 TRANSPORT INFORMATION

Product NOT classified in accordance with the **ADR/RID, IMDG, IATA** and **DOT** regulations.

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture

Restrictions of use: The substances contained in the product are not subject to restrictions of use according to Regulation 1907/2006 EC as amended (REACH).

Substance(s) subject to authorization: The substances contained in the product are not subject to authorization according to Regulation 1907/2006 EC as amended (REACH).

15.2. Chemical safety assessment

No chemical safety assessment was performed.

SECTION 16 OTHER INFORMATION

Revisions:

<i>REV</i>	<i>Justification</i>	<i>Date</i>
00	First edition	9/16/2019
01	Change of name and graphic renewal	9/2/2020

Bibliographical sources:

(1) ECHA Database for trypsin, CAS: 9002-07-7 EC: 232-650-8

Abbreviations and acronyms:

- ACGIH: American Conference of Governmental Industrial Hygienists
- BCF: bioaccumulation factor
- CAS: Chemical Abstract Service (division of the American Chemical Society)
- CLP: Classification, Labelling and Packaging
- DNEL: Derived no-effect level
- EC50: effective concentration giving half-maximal response
- EINECS: European Inventory of Existing Chemical Substances
- EPA: US Environmental Protection Agency
- IARC: International Agency for Research on Cancer
- IATA: International code for transport of dangerous goods by air.

	SAFETY DATA SHEET		SDS No.	
			Version:	01
			Revision:	01
			Drawn up on:	September 2nd, 2020

IMDG: International code for transport of dangerous goods by sea.
 LC50: lethal concentration for 50% of a population
 LD50: lethal dose for 50% of a population
 NOAEL: dose with no observed adverse effect (No Observed Adverse Effect Level)
 NOEL: no observed effect level
 OEL: Occupational Exposure Limit
 PBT: Persistent, bioaccumulative, and toxic substances
 PNEC: Predicted No-effect Concentration
 RID: European Agreement concerning the International Carriage of dangerous goods by railway
 TLV/TWA: limit concentration, calculated as weighted average in time
 vPvB: very Persistent and very Bioaccumulative

Full text of Hazard Statements:

H315 Causes skin irritation
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 EUH208 Contains trypsin. May cause an allergic reaction.
 EUH210 Safety Data Sheet available on request.

NOTICE TO USERS

This document's purpose is to provide a guide for the suitable and cautious handling of this product by qualified staff or staff operating under the supervision of expert staff handling chemical substances. The product must not be used for other purposes than the ones indicated in section 1, except for cases where suitable written information is received on the material handling modalities.

The person in charge of this document cannot provide warnings for all the hazards derived from the use or the interaction of the product with other chemical substances or materials. The user is responsible for the safe use of the product, the suitability of the product for the use and its correct disposal. The information reported above are not to be considered a statement of warranty, either express or implied, of merchantability, of suitability for a specific purpose, of quality or of any other nature. The information contained in this SDS are compliant with the provisions of Regulation 1907/2006 (EC) as amended.