

GIORGIO GRAESAN AND FRIENDS	Safety Data sheet	Code	SDS1027
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SECTION 1. Identification of the substance or mixture and of the company/enterprise

1.1. Product identifier

Code: **1027**
Description: **VETRO SATINATO**

1.2. Relevant identified uses of the substance or mixture and uses not recommended

Relevant uses: **SATIN ACRYLIC GLASS FINISH**

1.3. Safety data sheet supplier information

Company Name: **GIORGIO GRAESAN AND FRIENDS s.a.s.**
Address: **Via BERGAMO 24
20037 PADERNO DUGNANO
ITALY
Tel. 02/9903951
Fax. 02/99039590**

the email address of the competent person responsible for the safety data sheet is **tecnico@giorgiograesan.it**

1.4. Emergency telephone number

Phone number: **02/99039541 from Monday to Friday 8.30-12.30/14.00-18.00**

SECTION 2. Hazard identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP). The product, however, containing dangerous substances in a concentration such as to be declared in section no.3, requires a safety datasheet with adequate information, in accordance with Regulation (EU) 2015/830.
Classification and hazard indications:

2.2. Label elements

Hazard labelling in accordance with Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms:	--
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Warnings:	--
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Hazard indications:

EUH210	Safety datasheet available on request.
EUH208	Contains: Reaction mass of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7]; 2-methyl-2H-isothiazol-3-one [EC No. 220-239-6] (3:1), 1,2-Benzisothiazol-3(2H)-one
	May cause an allergic reaction.

Precautionary statements:

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VOC (Directive 2004/42/EC):

Fixative primer.

VOC expressed in g/litre of product ready for use:	13.92	
Maximum limit:	30.00	

2.3. Other hazards

Based on the available data, the product does not contain PBT or vPvB substances in percentages \geq to 0.1%.

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SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = % Conc.	Classification 1272/2008 (CLP)	
2-(2-BUTOXYETHOXY)ETHANOL			
CAS 112-34-5	1 ≤ x < 1.5	Eye Irrit. 2 H319	
EC 203-961-6			
INDEX 603-096-00-8			
Reg No. 01-2119475104-44			

The full text of the hazard statements (H) is given in section 16 of the datasheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately with plenty of water for at least 30/60 minutes, with eyelids open wide.

Seek medical advice immediately.

SKIN: Remove contaminated clothing. Shower immediately. Seek medical advice immediately.

INGESTION: Drink as much water as possible. Seek medical advice immediately. Do not induce vomiting unless expressly authorised by your doctor.

INHALATION: Seek medical advice immediately. Take the person to fresh air, away from the scene of the accident. If breathing stops, perform artificial respiration. Take appropriate precautions for the rescuer.

4.2. Most important symptoms and effects, both acute and delayed

There is no known specific information regarding the symptoms and effects caused by the product.

4.3. Indication of any need for immediate medical attention and special treatments

Information not available

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

UNSUITABLE EXTINGUISHING MEDIA

The extinguishing media are the traditional ones: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING MEDIA

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF A FIRE

Avoid breathing in combustion products.

5.3. Recommendations for fire extinguishers

GENERAL INFORMATION

Cool containers with water jets to prevent decomposition of the product and the development of substances that are potentially hazardous to health. Always wear full fire protection equipment. Collect the extinguishing water that must not be discharged into the sewers. Dispose of contaminated water used for extinguishing and fire residue according to current regulations.

EQUIPMENT

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame retardant overalls (EN469), flame retardant gloves (EN 659) and fire boots (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and procedures in case of emergency

Stop the leak if there is no danger.

Wear appropriate protective equipment (including personal protection equipment referred to in section 8 of the safety datasheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid for both workers and emergency interventions.

6.2. Environmental precautions

Prevent the product from entering sewers, surface water, groundwater.

6.3. Methods and materials for containment and cleansing

Suction the leaked product into a suitable container. Assess the compatibility of the container to use with the product, checking section 10.

Absorb the residue with inert absorbent material.

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Provide sufficient ventilation of the site affected by the leak. The disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Any information regarding personal protection and disposal is set out in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handle the product after consulting all other sections of this safety datasheet. Do not release the product to the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and the protective equipment before accessing eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Store in the original container only. Store in sealed containers in a well-ventilated place, away from direct sunlight. Store containers away from any incompatible materials, checking section 10.

7.3. Particular end uses

Information not available

SECTION 8. Check for exposure/personal protection

8.1. Control parameters

Regulatory References:

ITA	Italy	Legislative Decree No. 81 of 9 April 2008
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020

2-(2-BUTOXYETHOXY)ETHANOL

Threshold limit value						
Type	State	TWA/8h		STEL/15min		Notes / Remarks
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	67.5	10	101.2	15	
WEL	GBR	67.5	10	101.2	15	
OEL	EU	67.5	10	101.2	15	
TLV-ACGIH		66	10			
Predicted no effect concentration for the environment - PNEC						
Freshwater reference value	1.1	mg/l				
Seawater reference value	0.11	mg/l				
Freshwater sediment reference value	4.4	mg/kg				
Seawater sediment reference value	0.44	mg/kg				
Water reference value, intermittent release	11	mg/l				
STP microorganism reference value	200	mg/l				
Food chain reference value (secondary poisoning)	56	mg/kg				
Terrestrial compartment reference value	0.32	mg/kg/d				

Key:
(C) = CEILING ; INALAB = Inhalable Fraction ; RESPIR = Respirable Fraction ; TORAC = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

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8.2. Exposure controls

Considering that the use of appropriate technical measures should always take precedence over personal protective equipment, ensure good ventilation in the workplace through effective local extraction.

When choosing personal protective equipment, consult your chemical suppliers if necessary.

Personal protective equipment must bear the EC marking attesting to its compliance with the regulations in force.

HAND PROTECTION

Protect hands with category III work gloves (ref. Standard EN 374).

When choosing the material of the work gloves, you should consider: compatibility, degradation, breakthrough times and permeation rates.

In the case of preparations, resistance of work gloves to chemical agents must be checked before use, as it is unpredictable.

Gloves have a deterioration time that depends on the duration and method of use.

SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional use, category I (ref. Directive 2016/425 and EN ISO 20344 standard). Wash with soap and water after removing protective clothing.

EYE PROTECTION

It is advisable to wear tightly fitting goggles (ref. standard EN 166).

RESPIRATORY PROTECTION

If the limit value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is recommended to wear a type A filter mask whose class (1, 2 or 3) should be selected in relation to the limit concentration of use.

(ref. EN 14387). If there are gases or vapours of a different nature and/or gases or vapours with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

The use of measures to protect the airways is required if the technical measures are not sufficient to limit the exposure of workers to the threshold values taken into account. The protection offered by the mask is, however, limited.

If the substance in question is odourless or its olfactory limit exceeds the relevant TLV-TWA and in case of an emergency, wear an open-circuit compressed air breathing apparatus (ref. EN 137) or fresh air breathing apparatus (ref. EN 138). Refer to EN 529 for the correct choice of respiratory equipment.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment, should be controlled to ensure compliance with the environmental protection legislation.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	viscous liquid	
Colour	no colour	
Odour	mild	
Odour threshold	Not available	
pH	9.2	Concentration:> 1
Melting or freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	
Evaporation rate	Not available	
Flammability of solids and gases	Not available	
Lower flammability limit	Not available	
Upper flammability limit	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	1.01 kg / l	

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Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
Explosive properties	Not available	
Oxidising properties	Not available	

9.2. Other information		
Total solids	31.62%	
VOC (Directive 2004/42/EC):	1.38 % - 13.92 g/litre	
VOC (volatile carbon):	0.09 % - 0.87 g/litre	

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular hazards of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable under normal use and storage conditions.

10.3. Possibility of dangerous reactions

There are no predictable dangerous reactions under normal conditions of use and storage.

2-(2-BUTOXYETHOXY)ETHANOL

Can react with: oxidising substances. Can form peroxides with: oxygen. Develops hydrogen on contact with: aluminium.
Can form explosive mixtures with: air.

10.4. Conditions to avoid

None in particular. However, the usual precautions used for chemical products should be respected.

2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: air.

10.5. Incompatible materials

2-(2-BUTOXYETHOXY)ETHANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

2-(2-BUTOXYETHOXY)ETHANOL

Can develop: hydrogen.

SECTION 11. Toxicological information

In the absence of experimental toxicological data on the product itself, any hazards of the product to health have been assessed on the basis of the properties of the substances contained, according to the criteria laid down in the reference legislation for classification.

Therefore, consider the concentration of the individual hazardous substances mentioned in section 3, if any, in order to assess the toxicological effects resulting from exposure to the product.

11.1. Information on toxicological effects

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

2-(2-BUTOXYETHOXY)ETHANOL

WORKERS: inhalation; contact with skin.

Immediate, delayed and chronic effects resulting from short- and long-term exposure

2-(2-BUTOXYETHOXY)ETHANOL

Can be absorbed by inhalation, ingestion and skin contact; irritating for skin and especially for eyes. Can cause damage to the spleen.
At ambient temperature, the danger of inhalation is unlikely due to the low vapour pressure of the substance.

Interactive effects

Information not available

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ACUTE TOXICITY

ATE (Inhalation) of the mixture:
Unclassified (no significant component)
ATE (Oral) of the mixture:
Unclassified (no significant component)
ATE (Skin) of the mixture:
Unclassified (no significant component)

2-(2-BUTOXYETHOXY)ETHANOL
LD50 (Oral) 3384 mg/kg Rat
LD50 (Skin) 2700 mg/kg Rabbit

SKIN CORROSION / SKIN IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / EYE IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May cause an allergic reaction. Contains: Reaction mass of:
5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7]; 2-methyl-2H-isothiazol-3-one [EC No. 220-239-6] (3:1)
1,2-Benzisothiazol-3(2H)-one

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

DANGER IN CASE OF ASPIRATION

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

Use according to good working practices without releasing the product to the environment. Notify the competent authorities if the product reaches waterways or contaminates soil or vegetation.

12.1. Toxicity

Information not available

12.2. Persistence and degradability

2-(2-BUTOXYETHOXY)ETHANOL		
Solubility in water		1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulation potential

2-(2-BUTOXYETHOXY)ETHANOL		
Partition coefficient: n-octanol/water		1

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Based on the available data, the product does not contain PBT or vPvB substances in percentages \geq to 0.1%.

12.6. Other adverse effects

Information not available

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SECTION 13. Disposal considerations

13.1. Waste treatment methods

Re-use, if possible. Product residue as such can be considered as non-hazardous special waste.
 Disposal must be entrusted to a company authorised to manage waste, in compliance with national and possibly local legislation.
 CONTAMINATE PACKAGING
 Contaminated packaging must be sent for recovery or disposal in accordance with the national waste management rules.

SECTION 14. Transport information

The product should not be considered dangerous under the provisions in force concerning the transportation of dangerous goods by road (A.D.R.), rail (RID), sea (IMDG Code) and air (IATA).

14.1. UN Number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard classes

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for users

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL and IBC code

Information not relevant

SECTION 15. Regulatory information

15.1. Specific health, safety and environmental laws and regulations for the substance or mixture

Seveso category - Directive 2012/18/EC: None

Restrictions on the product or contained substances in accordance with Annex XVII Regulation (EC) 1907/2006

None

Substances in Candidate List (Art. 59 REACH)

Based on the available data, the product does not contain SVHC substances in percentages \geq to 0.1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to export notification Reg. (EC) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health Controls

Information not available

VOC (Directive 2004/42/EC):

Fixative primer.

Italian Legislative Decree 152/2006 and subsequent amendments

Emissions according to Part V Annex I:

TAB. D Class 2 00.22 %

WATER 61.04 %

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15.2. Chemical safety assessment

No chemical safety assessment has been prepared for the mixture or for the substances indicated in section 3.

SECTION 16. Other information

Text of the hazard statements (H) mentioned in sections 2-3 of the datasheet:

Eye Irrit. 2	Eye irritation, category 2	
H319	Causes severe eye irritation.	
EUH210	Safety datasheet available on request.	

KEY:

- ADR: European agreement on the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service Number
- EC50: Effective concentration in 50% of the tested population
- EC NUMBER: Identification number in ESIS (European chemical substances information system)
- CLP: Regulation EC 1272/2008
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Globally harmonised system of classification and labelling of chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Inhibitory concentration of 50% of the tested population
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organisation
- INDEX NUMBER: Identification number in Annex VI of CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure limit
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Permissible exposure limit
- PNEC: Predicted no effect concentration
- REACH: Regulation EC 1907/2006
- RID: Regulations for the international carriage of dangerous goods by train
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded at any time during working exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
 2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
 3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
 8. Regulation (EU) 944/2013 of the European Parliament (II Atp. CLP)
 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Toxicological sheets
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website

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- ECHA Agency website
- Database of chemical SDS models - Ministry of Health and Higher Institute of Health

Note to the user:

The information contained in this datasheet is based on the knowledge available to us on the date of the latest version.

The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document must not be construed as warranting any specific property of the product.

As use of the product does not fall under our direct control, it is the user's responsibility to comply with the laws and regulations in force regarding hygiene and safety. No responsibility is assumed for improper use.

Provide adequate training to personnel involved in the use of chemicals.

CALCULATION METHOD FOR THE CLASSIFICATION

Physical-chemical hazards: The product classification is obtained from the criteria laid down by CLP Regulation Annex I Part 2. The assessment methods of the physical-chemical properties are outlined in section 9.

Health hazards: The classification of the product is based on the calculation methods covered in Annex I of CLP Part 3, unless otherwise indicated in section 11.

Environmental hazards: The classification of the product is based on the calculation methods covered in Annex I of CLP Part 4, unless otherwise indicated in section 12.

This datasheet cancels and replaces any previous edition.

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