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| GIORGIO GRAESAN AND FRIENDS | Safety Datasheet | Code | SDS1019 |
| | | Revision | 0 |
| VETRO LUCIDO | | Revision Date | 08/04/2020 |
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SECTION 1. Identification of the substance or mixture and of the company/enterprise

1.1. Product identifier

Code: **1019**
Description: **VETRO LUCIDO**

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

Relevant uses: **VITRIFYING ACRYLIC FINISH**

1.3. Safety datasheet 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 e-mail address of the competent person responsible for the safety datasheet 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.

Classification according to EC Regulation No. 1272/2008 (CLP/GHS)

The product is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adaptations).

Physico-chemical effects harmful to human health and the environment: no other hazards

2.2. Label elements according to Regulation no. 1272/2008.

Hazard indications: --

Hazard pictograms: --

Hazard indications:

EUH210 Safety datasheet available on request.

EUH208 Contains Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May cause an allergic reaction.

Precautionary statements: --

Special provisions based on Annex XVII of REACH and subsequent adaptations: --

Safety datasheet available at: **www.giorgiograesan.it**

2.3. Other hazards.

The product does not meet the PTB/vPvB criteria

SECTION 3. Composition/information on ingredients.

3.1 Substances

Not applicable

3.2 Mixtures

Chemical description: mixture of acrylic binders, aggregate fillers and special additives.

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Components

| Identification | Chemical name | Classification (EC REGULATION NO. 1272/2008) | Conc. [%] |
|--|---|--|--------------|
| CAS no: 55965-84-9 CE: 611-341-5 Index: not applicable Reach: | Mixture of 5-chloro-2methyl-2H-isothiazol-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No. 220-2396] (3:1) | 3.2/1B Skin Corr. 1B H314 3.4.2/1A Skin Sens. 1A H317 4.1/A1 Aquatic Acute 1 H400 M=100. 4.1/C1 Aquatic Chronic 1 H410 M=10. 3.1/3/Oral Acute Tox. 3 H301 3.1/3/Dermal Acute Tox. 3 H311 3.1/1/Inhal Acute Tox. 1 H330 | 0<=x<0.0015% |

SECTION 4. First aid measures.

4.1 Description of first aid measures:

Symptoms due to poisoning may appear after exposure, so if in doubt, seek medical advice following direct exposure to the chemical or persistent discomfort, showing the SDS of this product.

By inhalation: call a doctor 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.

For skin contact: remove contaminated clothing. Take a shower immediately and wash thoroughly with soap and water. Seek medical advice immediately.

For eye contact: Remove any contact lenses, wash immediately and thoroughly with water and seek medical advice.

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

4.2. Most important symptoms and effects, both acute and delayed: none

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

Treatment: none

SECTION 5. Fire-fighting measures.

5.1. Extinguishing media.

Non-flammable product under normal conditions of storage, handling and use. In case of fire following handling, storage or improper use:

SUITABLE EXTINGUISHING MEDIA: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING MEDIA: none in particular.

5.2. Special hazards arising from the substance or mixture.

Avoid breathing in combustion products. Heat causes increased pressure and an explosion hazard. Combustion produces heavy smoke.

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. If feasible from a safety point of view, move undamaged containers away from the area of immediate danger.

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.

Wear personal protective equipment.

Move people to a safe place.

See the protective measures set out in sections 7 and 8.

6.2. Environmental precautions.

Prevent the product from entering sewers, surface water, groundwater. Retain contaminated washing water and dispose of it.

In the event of a gas leak or penetration into watercourses, soil or sewage system, inform the responsible authorities. Material suitable for collection: absorbent material, organic substances, sand.

6.3. Methods and materials for containment and cleansing.

Contain with earth or non-sparking inert material. Collect most of the material with recovery containers and proceed with disposal. Discard the residue with water jets if there are no contraindications. Provide sufficient ventilation of the site affected by the leak. Check for incompatibilities with the container material in Section 7. The disposal of contaminated material must be carried out in accordance with the provisions of section 13.

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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.

Comply with the existing legislation on the prevention of risks at work.

Handle the product after consulting all other sections of this safety datasheet. Keep containers tightly closed and avoid dispersion of the product into the environment. Maintain order and cleanliness where dangerous products are handled.

Due to its flammability characteristics, the product does not present a risk of fire under normal conditions of storage, handling and use.

Do not eat, drink or smoke during handling and take care to wash with suitable products.

Absorbent material is recommended near the product.

7.2. Conditions for safe storage, including any incompatibilities.

Keep the product in clearly labelled containers. Store containers away from any incompatible materials, checking section 10.

Keep containers tightly closed, in suitable environments at +5°C to +30°C.

Avoid sources of heat, radiation, static electricity and contact with food.

7.3. Particular end uses.

Not available

SECTION 8. Exposure control/personal protection.

8.1. Control parameters

DNEL exposure limit values: not applicable


PNEC exposure limit values: not applicable

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


| Pictogram | PPE | Marked | ECN standards | Remarks |
|--|-------------|-----------------|---------------|---|
|  Mandatory hand protection | Work gloves | CE CAT. III. | EN 374 | Replace gloves at first sign of deterioration. For periods of prolonged exposure to the product by professional/industrial users, the use of CE III gloves is recommended in accordance with EN 420 and EN 374. |

SKIN PROTECTION

| Pictogram | PPE | Marked | ECN standards | Remarks |
|-----------|---------------------|--------------|-------------------|--|
| | Work clothing | CE CAT I | | Replace at the first sign of deterioration. For periods of prolonged exposure by professional / industrial users, CE III is recommended, according to EN ISO 6529: 2001, EN ISO 6530: 2005, EN ISO 13688: 2013, EN 464: 1994 |
| | Non-slip work shoes | CE CAT II | EN ISO 20347:2012 | Replace at the first sign of deterioration. For periods of prolonged exposure by professional / industrial users, CE III is recommended, according to EN ISO 20345 and EN 13832-1 |

Wash with soap and water after removing protective clothing.

EYE PROTECTION

| Pictogram | PPE | Marked | ECN standards | Remarks |
|--|---|--------------|---------------------------------|--|
|  Mandatory face protection | Full-vision safety goggles to protect against splashes and/or projections | CE CAT II | EN 166:2001 EN ISO 4007:2012 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use is recommended if there is a risk of splashing. |

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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 respiratory protective equipment is necessary if the technical measures taken are not sufficient to limit the worker's exposure to the limit values taken into account. However, the protection offered by masks is 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.

| | |
|--|-----------------|
| Appearance: | liquid |
| Colour: | transparent |
| Smell: | characteristic |
| Odour threshold: | Not applicable |
| pH: | 8 - 10 |
| Melting/freezing point: | Not applicable |
| Boiling point/boiling range: | Not applicable |
| Solid/gas flammability: | Not applicable |
| Upper/lower flammability or explosion limit: | Not applicable |
| Vapour density: | Not applicable |
| Flash point: | >60°C |
| Evaporation rate: | Not applicable |
| Steam pressure: | Not applicable |
| Relative density: | 1.03 kg/l |
| Liposolubility: | Not applicable |
| Partition coefficient: (n-octanol/water): | Not applicable |
| Autoignition temperature: | Not applicable |
| Decomposition temperature: | Not applicable |
| Viscosity: | 1000 – 2000 cps |
| Explosive properties: | Not applicable |
| Oxidising properties: | Not applicable |

9.2. Other information

| | |
|--|-----------------------|
| Dry residue: | 33.06% |
| VOC (Directive 2004/42/EC): | 1.28% - 13.17 g/litre |
| VOC (volatile carbon): | <0.09% - 0.95 g/litre |
| Miscibility: | Not applicable |
| Liposolubility: | Not applicable |
| Conductivity: | Not applicable |
| Characteristic properties of groups of substances: | Not applicable |

SECTION 10. Stability and reactivity.

10.1. Reactivity.

No dangerous reaction.

10.2. Chemical stability.

The product is stable under normal handling, use and storage conditions.

10.3. Possibility of dangerous reactions.

No dangerous reaction expected due to temperature and/or pressure variation.

10.4. Conditions to avoid.

Stable under normal conditions

10.5. Incompatible materials.

10.6. Hazardous decomposition products.

None of them.

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SECTION 11. Toxicological information.

11.1 Information on toxicological effects.

- a) **Acute toxicity:** Not classified No data available for the product.
- b) **Skin corrosion/irritation:** Not classified No data available for the product.
- c) **serious eye damage/serious eye irritation** Not classified No data available for the product.
- d) **respiratory or skin sensitisation:**
May cause an allergic reaction
Contains: Mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7]; 2-methyl-2H-isothiazol-3-one
- e) **germ cell mutagenicity;** Not classified No data available for the product.
- f) **carcinogenicity:** Not classified No data available for the product.
- g) **reproductive toxicity:** Not classified No data available for the product.
- h) **specific target organ toxicity (STOT) - single exposure:** Not classified No data available for the product.
- i) **specific target organ toxicity (STOT) - repeated exposure:** Not classified No data available for the product.
- j) **danger in case of aspiration:** Not classified No data available for the product.

Toxicological information concerning the main substances present in the product: No data available for the product.

SECTION 12. Ecological information.

12.1 Toxicity

Use according to good working practices without releasing the product to the environment. Never release the product in the soil, sewers or waterways. Notify the competent authorities if the product reaches watercourses or sewers, or if it contaminates soil or vegetation. Take measures to minimise the effects on the groundwater.

Not classified for environmental hazards.

No data available for the product.

Toxicological information concerning the main substances present in the product:

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1).

Acute aquatic toxicity:

- Test: EC50 - Species: Daphnia 0.1 mg/l - Duration h: 48 daphnia magna
- Test: EC50 - Species: Algae 0.048 mg/l - Duration h: 72 pseudokirchneriella subcapitata
- Test: EC50 - Species: Fish 0.22 mg/l - Duration h: 96 oncorhynchus mykiss
- Test: NOEC - Species: Algae 0.00064 mg/l - Duration h: 48 skeletonema costatum
- Test: NOEC - Species: Daphnia 0.004 mg/l - Duration h: 504 daphnia magna
- Test: NOEC - Species: Fish 0.098 mg/l - Duration h: 672 oncorhynchus mykiss
- Test: NOEC - Species: Algae 0.0012 mg/l - Duration h: 72 pseudokirchneriella subcapitata

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

The product does not meet the PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Waste generation should be avoided or minimised where possible. Disposal of this product, solutions and any by-products must always be carried out in accordance with the environmental protection and waste disposal law and respecting the requirements of each relevant local authority. Disposal must be entrusted to a company authorised to manage waste, in compliance with national and possibly local legislation. Absolutely avoid dispersing the product in the soil, sewers or waterways.

Contaminated packaging must be sent for recovery or disposal in accordance with the national waste management rules. Care should be taken when handling empty containers that have not been cleaned or rinsed.

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

Unregulated

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14.2 UN proper shipping name

Unregulated

14.3 Transport hazard classes

Unregulated

14.4 Packing group

Unregulated

14.5 Environmental hazards

Unregulated

14.6 Special precautions for users

None in particular.

14.7 Carriage of bulk according to Annex II of MARPOL 73/78 and IBC code

Unregulated

SECTION 15. Regulatory information.

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

Italian Legislative Decree no. 81 of 09/04/2008 Ministerial Decree of Labour 26/02/2004 (Occupational exposure limits)

Regulation (EC) no. 1907/2006 (REACH)

Regulation (EC) no. 1272/2008 (CLP)

Regulation (EC) no. 790/2009 (ATP 1 CLP) and (EU) No 758/2013

Regulation (EU) 2015/830 Regulation (EU) No 286/2011 (ATP 2 CLP)

Regulation (EU) no. 618/2012 (ATP 3 CLP)

Regulation (EU) no. 487/2013 (ATP 4 CLP)

Regulation (EU) no. 944/2013 (ATP 5 CLP)

Regulation (EU) no. 605/2014 (ATP 6 CLP)

Regulation (EU) no. 2015/1221 (ATP 7 CLP)

Regulation (EU) no. 2016/918 (ATP 8 CLP)

Regulation (EU) no. 2016/1179 (ATP 9 CLP)

Regulation (EU) no. 2017/776 (ATP 10 CLP)

Regulation (EU) no. 2018/699 (ATP 11 CLP)

Restrictions on the product or substances contained in accordance with Annex XVII to Regulation (EC) 1907/2006 (REACH) and subsequent adaptations:

Product restrictions: no restrictions.

Restrictions on contained substances: no restrictions.

Where applicable, refer to the following regulations:

Ministerial circulars 46 and 61 (Aromatic amines).

Directive 2012/18/EU (Seveso III)

Regulation 648/2004/EC (Detergents).

Italian Legislative Decree no. 152 of 03/04/2006 Environmental standards

Dir. 2004/42/EC (VOC Directive)

Provisions relating to EU Directive 2012/18 (Seveso III):

Category Seveso III according to Annex 1, Part 1: no restrictions.

15.2. Chemical safety assessment.

No chemical safety assessment has been prepared for the mixture or for the substances contained therein.

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SECTION 16. Other information.

This safety datasheet has been drawn up in accordance with Annex II-Guide for the development of Safety Datasheets of Regulation (EC) No. 1907/2006 (Regulation (EU) No. 2015/830).

Text of the sentences used in paragraph 3:

H330 Lethal if inhaled.

H317 May cause an allergic skin reaction.

H400 Highly toxic to aquatic organisms.

H410 Highly toxic to aquatic organisms with long-lasting effects.

H301 Toxic if swallowed.

H311 Toxic due to skin contact.

| Hazard class and category | Code | Descriptions |
|---------------------------|--------------|---|
| Acute Tox. 1 | 3.1/1/Inhal | Acute toxicity (inhalation), Category 1 |
| Acute Tox. 3 | 3.1/3/Dermal | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 | 3.1/3/Oral | Acute toxicity (oral), Category 3 |
| Skin Corr. 1B | 3.2/1B | Skin Corrosion, Category 1B |
| Skin Sens. 1A | 3.4.2/1A | Skin sensitisation, Category 1A |
| Aquatic Acute 1 | 4.1/A1 | Acute Hazard to the Aquatic Environment, Category 1 |
| Aquatic Chronic 1 | 4.1/C1 | Chronic (long-term) danger to the aquatic environment, Category 1 |

This datasheet has been revised in all its sections in accordance with Regulation 2015/830.

This document has been prepared by an SDS technician who has received appropriate training.

Main bibliographical sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,

Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

CCNL - Annex 1

Istituto Superiore di Sanità - National Inventory of Chemicals

ECHA Agency WEBSITE

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KEY.

ADR: European Agreement on the international carriage of dangerous goods by road.
CAS No: Chemical Abstracts Service (American Chemical Society division).
CLP: Classification, Labelling, Packaging.
DNEL: Derived no effect level.
EINECS: European inventory of existing European chemicals on the market.
GefStoffVO: Ordinance on dangerous substances in Germany.
GHS: Harmonised global classification and labelling system for chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation of the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organisation.
ICAO-TI: Technical instructions of the International Civil Aviation Organisation (ICAO).
IMDG: International Maritime Dangerous Goods Code.
INCI: International nomenclature of cosmetic ingredients.
KSt: Deflagration index.
LC50: Lethal concentration for 50% of the test population.
LD50: Lethal dose for 50% of the test population.
PNEC: Predicted no effect concentration.
RID: Regulation concerning the international carriage of dangerous goods by rail.
ATE: Acute toxicity estimate
ATEmix: Acute toxicity estimate (Mixtures)
STEL: Short-term exposure limit.
STOT: Specific target organ toxicity.
TLV: Threshold limit value.
TWA: Time-weighted average
WGK: Water hazard class (Germany).

This datasheet cancels and replaces any previous edition.

Note to the user:

The information contained in this sheet is based on the knowledge available to us at 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.