

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1015
		Revision	0
VETRO OPACO		Revision Date	08/04/2020
		Page	1 of 11

SECTION 1. Identification of the substance or mixture and of the company/enterprise

1.1. Product identifier

Code: **1015**
Description: **VETRO OPACO**

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.

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1015
		Revision	0
VETRO OPACO		Revision Date	08/04/2020
		Page	2 of 11

Components

Identification	Chemical name	Classification (EC REGULATION NO. 1272/2008)	Conc. [%]
CAS no: 55965-84-9 CE: 611-341-5 Index: 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%
CAS no: 111-76-2 CE: 203-905-0 Index: 603-014-00-0 Reach: 01-2119475108-36-XXXX	2-Butoxyethanol	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315	4 ≤ x < 4.5
CAS 8002-74-2 EC 232-315-6 Index: Reach	Synthetic paraffin wax	Substance with a European occupational exposure limit.	0.15 ≤ x < 0.2
CAS 112-34-5 EC 203-961-6 INDEX 603-096-00-8 Reg No. 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol	Eye Irrit. 2 H319	0.1 ≤ x < 0.15
CAS 107-98-2 EC 203-539-1 INDEX 603-064-00-3 Reg. No. 01-2119457435-35-XXXX	1-methoxy-2-propanol	Flam. Liq. 3 H226, STOT SE 3 H336	0 ≤ x < 0.05

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 by opening the eyelids well, consult a doctor.

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: Do not use water jets. Water is not effective in extinguishing fire, however it can be used to cool closed containers exposed to flames, preventing blasts and explosions.

For product leaks and spills that have not ignited, sprayed water can be used to disperse flammable vapours and protect persons responsible for stopping the leak.

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.

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).

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1015
		Revision	0
VETRO OPACO		Revision Date	08/04/2020
		Page	3 of 11

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 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.

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.

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.

Keep away from heat, sparks and open flames, do not smoke or use matches or lighters. Without adequate ventilation, the vapours can accumulate on the ground and catch fire even at a distance, if ignited, with the risk of backfire. Avoid the accumulation of electrostatic charges. Connect to a grounding socket in the case of large packaging during transfer operations and wear anti-static shoes. Strong agitation and the vigorous flow of liquid in the pipes and equipment can cause the formation and accumulation of electrostatic charges. To avoid the danger of fire and explosion, never use compressed air in handling. Open containers with caution, as they may be pressurised. Do not eat, drink or smoke during use. Do not release the product to the environment.

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

Regulatory References:

DNK	Danmark	Graensevaerdier for stoffer og materialer
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidsatmosfære
EU	OEL EU	Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.

2-Butoxyethanol								
Threshold limit value								
Type	State	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	DNK (National Identity Document)	98	20	196	40			
TLV	NOR	50	10	-	-			
OEL	EU	98	20	246	50	SKIN		
Predicted no effect concentration for the environment - PNEC								
Freshwater reference value					8.8	mg/l		
Seawater reference value					0.88	mg/l		
Freshwater sediment reference value					34.6	mg/kg		
Seawater sediment reference value					3.46	mg/kg		
Terrestrial compartment reference value					3.13	mg/kg		
Health - Derived no effect level - DNEL / DMEL								
Effects on consumers				Effects on workers				
Route of exposure	Local acute	Systemic acute	Local chronic	Systemic chronic	Local chronic	Local acute	Systemic acute	Systemic chronic
Oral			VND	3.2 mg/kg				
Inhalation			VND	49 mg/m3			VND	98 mg/m3
Demica			VND	38 mg/kg			VND	75 mg/m3

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet				Code	SDS1015
					Revision	0
VETRO OPACO				Revision Date	08/04/2020	
				Page	4 of 11	

Synthetic paraffin wax						
Threshold limit value						
Type	State	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	DNK (National Identity Document)	2		4		
TLV	NOR	2		-		
OEL	EU	2		4		

2-(2-Butoxyethoxy)ethanol						
Threshold limit value						
Type	State	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	DNK (National Identity Document)	100		200		
TLV	NOR	68	10	-		
OEL	EU	67.2	10	101.2 (C)	15 (C)	

Predicted no effect concentration for the environment - PNEC						
Freshwater reference value					1	mg/l
Seawater reference value					0.1	mg/l
Freshwater sediment reference value					4	mg/kg
Seawater sediment reference value					0.4	mg/kg
Terrestrial compartment reference value					0.4	mg/kg

Health - Derived no effect level - DNEL / DMEL								
Effects on consumers					Effects on workers			
Route of exposure	Local acute	Systemic acute	Local chronic	Systemic chronic	Local chronic	Local acute	Systemic acute	Systemic chronic
Oral			VND	1.25 mg/kg				
Inhalation	50.6 mg/m3	VND	VND	34 mg/m3	101.2 mg/m3	VND	67.5 mg/m3	67.5 mg/m3
Demica			VND	10 mg/kg			VND	20 mg/m3

1-methoxy-2-propanol						
Threshold limit value						
Type	State	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	DNK (National Identity Document)	185	50	370	100	
TLV	NOR	180	50	-		
OEL	EU	375	100	568	150	

Predicted no effect concentration for the environment - PNEC						
Freshwater reference value					10	mg/l
Seawater reference value					100	mg/l
Freshwater sediment reference value					52.3	mg/kg
Seawater sediment reference value					5.2	mg/kg
Terrestrial compartment reference value						mg/kg

Health - Derived no effect level - DNEL / DMEL								
Effects on consumers					Effects on workers			
Route of exposure	Local acute	Systemic acute	Local chronic	Systemic chronic	Local chronic	Local acute	Systemic acute	Systemic chronic
Oral				33 mg/kg bw/d				
Inhalation				43.9 mg/m3	553.5 mg/m3		67.5 mg/m3	369 mg/m3
Demica				78 mg/kg bw/d			VND	183 mg/m3 bw/d

Key: (C) = CEILING; INALAB = Inhalable Fraction; RESPIR = Respirable Fraction; TORAC = Thoracic Fraction.

VND = hazard identified but no available DNEL/PNEC identified. NEA = no expected exposure; NPI = no hazard

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1015	
		Revision	0	
	VETRO OPACO		Revision Date	08/04/2020
			Page	5 of 11


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


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.

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:	milky
Smell:	characteristic
Odour threshold:	Not applicable
pH:	Not applicable
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

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1015
		Revision	0
VETRO OPACO		Revision Date	08/04/2020
		Page	6 of 11

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: Not applicable
Explosive properties: Not applicable
Oxidising properties: Not applicable

9.2. Other information

Dry residue: 29.15%
VOC (Directive 2004/42/EC): 4.77% - 49.12 g/litre
VOC (volatile carbon): 2.88% - 29.63 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.

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 of exposure to the product.

11.1. Information on toxicological effects

Metabolism, kinetics, mechanism of action and other information: not available

Information on likely routes of exposure: Information not available

Immediate, delayed and chronic effects resulting from short- and long-term exposure: Information not available

Interactive effects: Information not available

Toxicological information concerning the main substances present in the product:

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l

LD50 (Oral) of the mixture: >2000 mg/kg

LD50 (Skin) of the mixture: >2000 mg/kg

Mixture 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)

LD50 (Oral): 1096 mg/kg Rat

LD50 (Skin): 141 mg/kg Rabbit

LC50 (Inhalation): 0.33 mg/l/4h Rat

2-(2-butoxyethoxy)ethanol

LD50 (Oral): 2410 mg/kg Rat

LD50 (Skin): 2764 mg/kg Rabbit

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1015	
		Revision	0	
	VETRO OPACO		Revision Date	08/04/2020
			Page	7 of 11

1-methoxy-2-propanol
LD50 (Oral): 4016 mg/kg Rat
LD50 (Skin): > 2000 mg/kg Rat

2-Butoxyethanol
LD50 (Oral): 1746 mg/kg Rat
LD50 (Skin): 6411 mg/kg Pig
LC50 (Inhalation): 450 ppm Rat

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:
Mixture of: 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).

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.

Since no specific data is available on the preparation, it must be used according to good working practices without releasing the product to the environment. Avoid releasing the product into the soil or waterways. Notify the competent authorities if the product reaches waterways or contaminates soil or vegetation. Take measures to minimise the effects on the groundwater.

12.1. Toxicity

Mixture 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)
LC50 - Fish 0.28 mg/l/96h Fish
EC50 - Crustaceans 0.16 mg/l/48h Daphnia

2-(2-butoxyethoxy)ethanol
LC50 - Fish 100 mg/l/96h Fish
EC50 - Crustaceans 100 mg/l/48h Algae

1-methoxy-2-propanol
EC50 - Crustaceans 25900 mg/l/48h Daphnia

2-Butoxyethanol
LC50 - Fish 1474 mg/l/96h Fish
EC50 - Crustaceans 1550 mg/l/48h Daphnia
EC50 - Algae / Aquatic Plants 911 mg/l/72h Algae

12.2. Persistence and degradability

Mixture 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) NOT rapidly degradable
2-(2-butoxyethoxy)ethanol Rapidly degradable
1-methoxy-2-propanol Rapidly degradable
2-Butoxyethanol Rapidly degradable

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1015
		Revision	0
VETRO OPACO		Revision Date	08/04/2020
		Page	8 of 11

12.3. Bioaccumulative potential

Information not available

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 at a rate of more than 0.1%.

12.6. Other adverse effects

Information not available

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

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.

Seveso category - Directive 2012/18/EC: None

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

Contained substances

Point 55 2- (2-butoxyethoxy)ethanol Reg. No.: 01-2119475104-44-XXXX

Substances in Candidate List (Art. 59 REACH)

Based on the available data, the product does not contain SVHC substances at a rate of more than 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

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1015
		Revision	0
VETRO OPACO		Revision Date	08/04/2020
		Page	9 of 11

Substances subject to the Stockholm Convention: None

Health Controls: Information not available

Italian Legislative Decree 152/2006 and subsequent amendments

Emissions according to Part V Annex I:

TAB. C Class 4 00.02 %
TAB. D Class 3 04.45 %
TAB. D Class 4 < 0.01 %
WATER 65.03 %

Water Pollution Classification in Germany (VwVwS 2005)

WGK 3: Very dangerous for water

15.2. Chemical safety assessment

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

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).

Flam. Liq. 3 Flammable liquid, category 3
Acute Tox. 2 Acute toxicity, category 2
Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4
Skin Corr. 1B Skin corrosion, category 1B
Eye Dam. 1 Serious eye damage, category 1
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2
Skin Sens. 1 Skin sensitisation, category 1
Skin Sens. 1A Skin sensitisation, category 1A
STOT SE 3 Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2
H226 Flammable liquid and vapours.
H330 Lethal if inhaled.
H301 Toxic if swallowed.
H311 Toxic due to skin contact.
H331 Toxic if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H400 Highly toxic to aquatic organisms.
H410 Highly toxic to aquatic organisms with long-lasting effects.
H411 Toxic to aquatic life with long lasting effects.
EUH210 Safety datasheet available on request.

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1015
		Revision	0
VETRO OPACO		Revision Date	08/04/2020
		Page	10 of 11

KEY:

- ADR: European agreement on the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service Number
- EC50: Concentration expected to produce a certain effect 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: Concentration at which 50% of the tested population is inhibited
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organisation
- INDEX NUMBER: Identification number in Annex VI of the 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 during any time of occupational 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

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

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- 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

- ECHA Agency website

- Database of chemical SDS models - Ministry of Health and Higher Institute of Health

GIORGIO GRAESAN AND FRIENDS	Safety Datasheet	Code	SDS1015	
		Revision	0	
	VETRO OPACO		Revision Date	08/04/2020
			Page	11 of 11

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.