

**1 Identification of the substance / mixture and of the company / undertaking**

1.1 **Product identifier**

Product Code: ART. 1015  
Trade Name: VETRO OPACO

1.2 **Relevant identified uses of the substance or mixture and uses advised against**

Description/Usage: GLAZING PAINT

1.3 **Details of the supplier of the safety data sheet**

Supplier: Giorgio Graesan & Friends s.a.s. Di Shila Graesan  
Address: Via Bergamo n. 24  
Place and country: 20037 - Paderno Dugnano MI (IT)  
Phone: +39 02 99039560  
Fax: +39 02 99039590  
Email of the person responsible: tecnico@giorgiograesan.it

1.4 **Emergency telephone number**

For urgent inquiries refer to +39 02 99039541

**2 Hazards identification**

2.1 **Classification of the substance or mixture**

The product is not classified as hazardous as per Directive (EC) 1272/2008 (CLP) (and subsequent amendments), in accordance with Directive (EC) 1907/2006 and subsequent amendments.

2.2 **Directive 1272/2008 (CLP) and subsequent amendments**

Classification and hazard statements: Not applicable

2.3 **Label elements**

Hazard pictograms: Not applicable  
Warnings: Not applicable  
Hazard statements: Not applicable

2.4 **Hazard statements**

EUH208: It may cause an allergic reaction. It Contains: Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one,2-methyl-2h-isothiazol-3-one.

2.5 **Safety advice**

P101: If medical advice is needed, keep at the disposal the container or the label of the product.

P102: Keep out of the reach of children.

The safety data sheet is available on www.giorgiograesan.it

2.6 **Other hazards:** Information not available.

**3 Composition / information on ingredients**

3.1 **Substances:** Non relevant information.

3.2 **Mixtures.** conc. % **Classification 1272/2008 (CLP)**

**2-Butossietanolo**  
CAS 111-76-2 4,5-5 Acute tox. 4 H302, Acute tox. 4 H312,  
Acute tox. 4 H332 Eye Irrit. 2 H319,  
Skin Irrit. 2 H315

CE. 203-905-0

INDEX 603-014-00-0

Nr. Reg.01-2119475108-36

**Mixtures of: 5-cloro-2-metil-2Hisotiazol-3-one,2-metil-2Hisotiazol-3-one**

CAS. 55965-84-9 0-0,0015 Acute Tox. 2 H330, Acute Tox. 3 H301,  
Acute Tox.3 H311, Skin Corr.1B H314  
Skin Sens. 1 H317, Acquatic Acute 1 H400  
M=1, Acquatic Chronic 1 H410

CE. 247-500-7

INDEX. 613-167-00-5

Note: Higher value of the excluded range. The full text of risk phrases (R) and indications (H) is given in section 16 of the MSDS. The product does not contain substances classified as hazardous to health or the environment as per Directives 67/548/EEC and/or Directive (EC) 1272/2008 (CLP) (and subsequent amendments) in such quantities as to require the declaration.

**4 First aid measures**

4.1 **Description of first aid measures**

EYES: Remove any contact lenses. Wash immediately thoroughly with water

for at least 30/60 min. Consult a doctor.

SKIN: Take off all contaminated clothing. Take a shower immediately. Consult a doctor.

INGESTION: Make drink water as much as possible. Consult a doctor.

INHALATION: Call a medic immediately. Rescuer must take adequate precautions.

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

No known episodes of damage to health attributable to the product.

4.3 **Indication of any immediate medical attention and special treatment needed**

Information not available.

**5 Firefighting measures**

5.1 **Extinguishing media**

SUITABLE EXTINGUISHING MEDIA: Extinguishing media are the conventional: carbon dioxide, foam, powder and nebulised water.

NOT SUITABLE EXTINGUISHING MEDIA: None in particular.

5.2 **Special hazards arising from the substance or mixture**

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE: Do not breathe combustion products.

5.3 **Advice for firefighters**

GENERAL INFORMATION: cool the containers by spraying with water to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention equipment.

Collect extinguishing water to prevent the product to percolate in drains. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT: normal clothes to fight the fire, as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame-resistant gloves (EN 659) and Firefighter boots (HO A29 or A30).

**6 Accidental release measures**

6.1 Personal Protection, protective equipment and emergency procedures: If fumes or powders are released into the air, adopt a respiratory protection. These guidelines apply to both clerks and those who work for the emergency interventions.

6.2 Environmental precautions: Do not allow the product to percolate in drains, watercourses, or open water.

6.3 Methods and materials for containment and cleaning up: Confine using earth or inert material. Remove most of the material and eliminate the remainder using jets of water. The disposal of contaminated material must be made in accordance with section 13.

6.4 Reference to other sections: Any information on personal protection and disposal is given in sections 8 and 13.

**7 Handling and storage**

7.1 Precautions for safe handling: Handle the product after consulting all other sections in this security sheet. Avoid dispersal of the product in the environment. Do not eat, drink or smoke while handling it.

7.2 Conditions for safe storage, including any incompatibilities: Keep the product in clearly labeled containers. Store containers away from any incompatible materials, checking section 10.

7.3 Specific end use(s): Information not available.

**8 Exposure controls / personal protection**

8.1 Control parameters: **2-Butossietanolo**

**Valore limite soglia**

Tipo	stato	TWA/8h		STEL/15min	
		Mg/m3	ppm	mg/m3	ppm
OEL	EU	98	20	246	50

**Expected concentration of no effect on the environment - PNEC**

Reference value in fresh water	8,8 mg/l
Reference value in seawater	0,88 mg/l
Reference value for sediment in fresh water	34,6 mg/l
Reference value for sediment in seawater	3,46 mg/l
Reference value in fresh water	3,13 mg/l

Health - Derived No Effect - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Locals acute	Systemic acute	Locals chronic	Systemic chronic	Locals acute	Systemic acute	Locals chronic	Systemic chronic
Oral			VND	3,2mg/kg				
Inhalation			VND	49mg/m3		VND		98mg/m3
dermal			VND	38mg/kg			VND	75mg/kg

Legend: (C) = CEILING; INALAB = Inhalable fraction; RESPIR = Fraction breathable; Torac = Fraction Thoracic; VND = hazard identified but no DNEL / PNEC; NEA = no anticipated exposure; NPI = no danger

8.2 Exposure controls / personal protection: Observe the safety measures used in handling chemical substances.

HANDS PROTECTION: Protective gloves. Latex 0.5 mm.

SKIN PROTECTION: Protective clothing cotton

EYES PROTECTION: Protective glasses in clear plastic with side and top protection for the eyebrows.

PROTECTION OF RESPIRATORY TRACTS: In case of exceeding the threshold value (eg. TLV-TWA) of the substance or one or more of the substances present in the product, consider wearing a mask with type A filter, whose class (1, 2 or 3) will be chosen according to the maximum concentration of use. (Ref. EN 14387). In the case were present gases or vapors of a different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) you should make use of combined type filters. The use of means of respiratory protection is required if the technical measures taken are not sufficient to limit worker exposure to the considered threshold values. The protection provided by masks is in any case limited. In the case where the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in case of emergency, wear an open circuit compressed air breathing apparatus (ref. Standard EN 137) or an outside air breathing apparatus (ref. standard EN 138). For the correct choice of respiratory protection device, refer to Standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS: Emissions from production processes, including those from ventilation should be checked for the purposes of compliance with environmental protection.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State: Liquid

Colour: White

Odour: Typical

Olfactory threshold: Not available

PH: Not applicable

Melting Point: < 0°C (water)

Boiling Point: 100°C (water)

Boiling Range: Not available

Flashpoint: > 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 Pressur: Not applicable

Density of vapours: Not available

Relative density: 1.04 Kg/liter

Solubility in water: Not available

Distribution coefficient/n-octano/water: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: Not applicable

Explosive properties: Not available

Oxidizing properties: Not available

9.2 Other information

Dry weight: 33.06%

VOC (Directive 2004/42/EC): 4.62 % - 47.59 g/liter

VOC (volatile carbon): < 0.09% - 0.95 g/liter

Solubility: water miscible

10 Stability and reactivity

10.1 Reactivity: There are no particular risks of reaction with other substances in normal usage conditions.

10.2 Chemical stability: This product is considered stable in normal usage and storage conditions.

10.3 Possibility of hazardous reactions: Vapors may form explosive mixtures with air 2- BUTOSSIATANOLO may react with: aluminum, oxidizing agents. Shaped air peroxides.

10.4 Conditions to avoid: Avoid overheating. Avoid the accumulation of electrostatic charges. Avoid all sources of ignition.

2- BUTOSSIATANOLO: Avoid all sources of ignition

10.5 Incompatible materials: Information not available.

10.6 Hazardous decomposition products: 2- BUTOSSIATANOLO - hydrogen.

11 Toxicological information

No known episodes of harm to health due to exposure to the product. In any case it must be handled in accordance with the rules of good industrial hygiene.

11.1 Information on toxicological effects

**Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one, 2-methyl-2h-isothiazol-3-one**

LD50 (Oral): 1096 mg/kg

LD50 (Dermal): 141mg/kg

LC50 (Inhalation): 0.33 mg/Kg

**2-BUTOSSIATANOLO**

LD50(Oral): 1746 mg/Kg. Rat.

LD50(Dermal): 6411 mg/Kg. Pig.

LC50(Inhalation): 450 ppm Rat11.1.

11.2 Informazioni sugli effetti tossicologici.

a) Acute toxicity: not applicable

b) Skin corrosion / irritation: not applicable

c) Eye / eye irritation injuries: not applicable

d) Respiratory or skin sensitization: not applicable

e) Germ cell mutagenicity: Not applicable

f) Carcinogenicity: not applicable

g) Reproductive toxicity: not applicable

h) Specific target organ toxicity (STOT) - single exposure: not applicable

i) specific target organ toxicity (STOT) - repeated exposure: not applicable

j) Aspiration Hazard: not applicable

12 Ecological information

Adopt good working practices, avoiding release into the environment. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation

12.1 Toxicity

**Mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one, 2-methyl-2h-isothiazol-3-one.**

LC50 - Fish : 0.28 mg / l / 96h Fish

EC50 - Crustaceans: 0.16 mg / l / 48h Daphnia

**2-BUTOSSIATANOLO**

LC50 - Fish: 1474 mg / l / 48h 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, 2-methyl-2h-isothiazol-3-one. Readily biodegradable.

2-BUTOSSIATANOLO: Readily Biodegradable

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 available data, the product does not contain any PBT or vPvB in percentage higher than 0.1%.

12.6 Other adverse effects: Information not available.

13 Disposal considerations

13.1 Waste treatment methods: Reuse, if possible. Product residues as such are to be considered non-hazardous waste. Disposal must be performed through an

13.2 authorized waste management, in compliance with national and local laws. Avoid release of the product in soil, sewers or waterways.  
CONTAMINATED PACKAGING: Contaminated packaging must be recovered or disposed in compliance with national waste management regulations.

**14 Transport information**

14.1 The product is not to be considered dangerous according to the provisions in force on the transportation of dangerous goods by road (A.D.R.), rail (RIS), by sea (IMGD Code), and by air (IATA).  
14.2 UN Number: Not Regulated  
14.3 UN proper shipping name: Not Regulated  
14.4 Transport hazard class transport: Not regulated  
14.5 Packing group: Not regulated  
14.6 Environmental hazards: Not regulated - MARINE POLLUTANT: NO  
14.7 Special precautions for user: None in particular.  
14.8 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not Regulated

**15 Regulatory information**

15.1 **Safety, health and environmental regulations / legislation specific for the substance or mixture**  
Seveso category: None.  
Restrictions relating to the product or contained substances pursuant to Annex XVII to Directive (EC) No. 1907/2006: None.  
Substances in the Candidate List (Art. 59 REACH): None.  
Substances subject to authorization (Annex XIV REACH): None.  
Substances subject to export notification Directive (EC) 649/2012: None.  
Substances subject to the Rotterdam Convention: None.  
Substances subject to the Stockholm Convention: None.  
Healthcare checks: Information not available.  
VOC (Directive 2004/42/EC): Glossy coatings for interior walls and ceilings (A/B)  
VOC given in g/liter of product ready for use:  
Maximum limit: 200.00 (2010). Product VOC: 13.17  
15.2 Chemical safety assessment: a chemical safety assessment for the mixture and the substances it contains has not been elaborated yet.

**16 Other information**

**LEGEND:**

Tox.2: Acute toxicity, category 2  
Tox.3: Acute toxicity, category 3  
Tox.4: Acute toxicity, category 4  
Skin Corr. 1B: Skin corrosion, category 1B  
Eye Irrit. 2: Eye irritation, category 2  
Skin Irrit. 2: Skin irritation, category 2  
Skin Sens 1: Skin sensitization cat. 1  
Aquatic Acute 1: Risk to the aquatic environment, acute, category 1  
Aquatic Chronic 1: Danger to the aquatic environment, Chronic, category 1  
H330: Fatal if inhaled  
H301: Toxic if swallowed  
H302: Harmful if swallowed  
H312: Harmful in contact with skin  
H332: Harmful if inhaled  
H314: Causes severe skin burns and eye damage  
H319: Causes serious eye irritation  
H315: Causes severe skin irritation  
H317: Fatal if inhaled  
H400: Very toxic to aquatic organisms  
H410: Very toxic to aquatic life with long lasting effects  
H210: Safety data sheet available on request  
ADR: European Agreement concerning the transport of dangerous goods by road.  
CAS NUMBER: Chemical Abstract Service Number.

EC50: Concentration that gives effect to 50% of the population subject to testing.  
EC NUMBER: ID number in ESIS (European archive of existing substances).  
CLP: Directive EC 1272/2008.  
DNEL: Derived No Effect Level.  
EmS: Emergency Schedule.  
GHS: Globally Harmonised System for classification and labeling of chemicals.  
IATA DGR: Regulation for the transport of dangerous goods by the International Air Transport Association.  
IC50: Concentration of immobilization of 50% of the population subject to testing.  
IMDG: International Maritime Code for Dangerous Goods.  
IMO: International Maritime Organization.  
INDEX NUMBER: ID number in Annex VI of the CLP.  
LC50: Lethal concentration 50%.  
LD50: Lethal dose 50%.  
OEL: Occupational Exposure Level.  
PBT: Persistent, bioaccumulative and toxic according to REACH.  
PEC: Predicted Environmental Concentration.  
PEL: predictable level of exposure.  
PNEC: Predicted No Effect Concentration.  
REACH: EC Regulation 1907/2006.  
RID: Regulations concerning the international carriage of dangerous goods by rail.  
TLV: Threshold Limit Value.  
TLV CEILING: Concentration which should not be exceeded during any time of occupational exposure.  
TWA STEL: Short Term Exposure Limit.  
TWA: Exposure Limit Weighted average.  
VOC: Volatile organic compound.  
vPvB: Very persistent and very bioaccumulative according to REACH.  
WGK: Water hazard class (Germany).

**GENERAL BIBLIOGRAPHY:**

1. Directive 1999/45/EC as amended.
2. Directive 67/548/EEC and following amendments and adjustments.
3. Directive (EC) 1907/2006 of the European Parliament (REACH).
4. Directive (EC) 1272/2008 of the European Parliament (CLP).
5. Directive (EC) 790/2009 of the European Parliament (I Atp. CLP).
6. Directive (EC) 453/2010 of the European Parliament.
7. Directive (EC) 286/2011 of the European Parliament (II Atp. CLP).
8. Directive (EC) 618/2012 of the European Parliament (III Atp. CLP).
9. Handling Chemical Safety.
10. The Merck Index. Ed. 10.
11. Niosh - Registry of Toxic Effects of Chemical Substances.
12. INRS - Fiche Toxicologique.
13. Patty - Industrial Hygiene and Toxicology.
14. N.I. Sax - Dangerous properties of Industrial Materials 7 Ed.1989.
15. Web Site Agency ECHA.

**NOTE TO USER:** The information in this security sheet are based on knowledge available to us at the date of the last revision. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. It should not be construed as a guarantee on any specific product property. Since the use of this product is not subject to our direct control, users must, under their own responsibility, follow the laws and provisions in force concerning health and safety. We do not take responsibility for improper use. Provide adequate training to personnel involved in the use of chemicals.