



## **SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

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### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### **1.1. Product identifier**

- Product name: VERNIS COLLE GRANITE
- Product code: ODIF-202.

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

- Varnish.

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

- Registered company name: ODIF.
- Address: 118, chemin du Sermoraz - BP 413.01704.BEYNOST Cedex.France.
- Telephone: +33 (0)4 78 55 07 43. Fax: +33 (0)4 72 25 84 63.
- Email: odif@odif.com
- <http://www.odif.com>

#### **1.4. Emergency telephone number : +33 (0)1 45 42 59 59.**

- Association/Organisation: INRS / ORFILA <http://www.centres-antipoison.net>.

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### **SECTION 2: HAZARDS IDENTIFICATION**

#### **2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

- Flammable aerosol, Category 1.

- This mixture does not present a health hazard.
- This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.**

- Extremely flammable.
- This mixture does not present a health hazard.
- This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**2.2. Label elements**

- Mixture for aerosol application.

**In compliance with EC regulation No. 1272/2008 and its amendments.**

- Hazard pictograms:



**GHS02**

- Signal Word:
- DANGER
- Hazard statements:

H222	Extremely flammable aerosol.
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- Precautionary statements - General:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

- Precautionary statements - Prevention:

P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.

- Precautionary statements - Storage:

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
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In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

- Hazard symbols:



### Extremely flammable

- Risk phrase:

R 12	Extremely flammable.
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- Safety phrase:

S 16	Keep away from sources of ignition - No smoking.
S 2	Keep out of the reach of children.
S 46	If swallowed, seek medical advice immediately and show this container or label.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.	
Do not pierce or burn, even after use.	
Do not spray on a naked flame or any incandescent material.	
S 51	Use only in well-ventilated areas.

### 2.3. Other hazards

- No data available.

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## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1. Substances

- No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

### 3.2. Mixtures

#### Composition :

Identification	Name	Classification	%
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INDEX: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	BUTANE	GHS02, GHS04, Dgr F+ H:220 R: 12 NOTA: C	50 <= x % < 100
INDEX: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	PROPANE	GHS02, GHS04, Dgr F+ H:220 R: 12	10 <= x % < 25
CAS: 107-98-2 EC: 203-539-1	MONOPROPYLENE GLYCOL METHYL ETHER	GHS07, GHS02, Wng H:226-336 R: 10-67	10 <= x % < 25

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## **SECTION 4: FIRST AID MEASURES**

- As a general rule, in case of doubt or if symptoms persist, always call a doctor.
- NEVER induce swallowing by an unconscious person.

### **4.1. Description of first aid measures**

#### **In the event of splashes or contact with eyes:**

- Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

#### **In the event of swallowing:**

- In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
- Keep the person exposed at rest. Do not force vomiting.
- Seek medical attention, showing the label.
- If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

- No data available.

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

- No data available.

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## **SECTION 5: FIREFIGHTING MEASURES**

- Flammable.
- Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

### **5.1. Extinguishing media**

- Keep packages near the fire cool, to prevent pressurised containers from bursting.

### **Suitable methods of extinction**

- In the event of a fire, use:
- - sprayed water or water mist
- - water with AFFF (Aqueous Film Forming Foam) additive
- - halon
- - foam
- - multipurpose ABC powder
- - BC powder
- - carbon dioxide (CO<sub>2</sub>)
- Prevent the effluent of fire-fighting measures from entering drains or waterways.

### **Unsuitable methods of extinction**

- In the event of a fire, do not use:
- - water jet

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

- A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
- Do not breathe in smoke.
- In the event of a fire, the following may be formed:
- - carbon monoxide (CO)
- - carbon dioxide (CO<sub>2</sub>)

### **5.3. Advice for firefighters**

- Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

- Consult the safety measures listed under headings 7 and 8.

#### **For non fire-fighters**

- Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

#### **For fire-fighters**

- Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

### **6.2. Environmental precautions**

- Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

- Prevent any material from entering drains or waterways.

### **6.3. Methods and material for containment and cleaning up**

- Clean preferably with a detergent, do not use solvents.

### **6.4. Reference to other sections**

- No data available.

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## **SECTION 7: HANDLING AND STORAGE**

- Requirements relating to storage premises apply to all facilities where the mixture is handled.

### **7.1. Precautions for safe handling**

- Always wash hands after handling.
- Ensure that there is adequate ventilation, especially in confined areas.

#### **Fire prevention:**

- Handle in well-ventilated areas.
- Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.
- Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.
- Do not spray on a naked flame or any incandescent material.
- Do not pierce or burn, even after use.
- Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.
- Keep packages tightly closed and away from sources of heat, sparks and naked flames.
- Do not use tools which may produce sparks. Do not smoke.
- Prevent access by unauthorised personnel.

#### **Recommended equipment and procedures:**

- For personal protection, see section 8.
- Observe precautions stated on label and also industrial safety regulations
- Do not breathe in aerosols.
- Packages which have been opened must be reclosed carefully and stored in an upright position

#### **Prohibited equipment and procedures:**

- No smoking, eating or drinking in areas where the mixture is used.

### **7.2. Conditions for safe storage, including any incompatibilities**

- No data available.

## Storage

- Keep out of reach of children
- Keep the container tightly closed in a dry, well-ventilated place
- Keep away from all sources of ignition - do not smoke.
- Keep well away from all sources of ignition, heat and direct sunlight
- The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

## Packaging

- Always keep in packaging made of an identical material to the original

### 7.3. Specific end use(s)

- No data available.

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. Control parameters

#### Occupational exposure limits:

- - European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Notes:
107-98-2	375	100	568	150	Peau

- - ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
106-97-8	1000 ppm	-	-	-	-
74-98-6	1000 ppm	-	-	-	-
107-98-2	100 ppm	150 ppm	-	-	-

- - Germany - AGW (BAuA - TRGS 900, 21/06/2010):

CAS	VME:	VME:	Excess	Notes
106-97-8	1000 ml/m3	2400 mg/m3	4(II)	DFG
74-98-6	1000 ml/m3	1800 mg/m3	4(II)	DFG
107-98-2	100 ml/m3	370 mg/m3	2(I)	DFG, Y

- - France (INRS - ED984:2007 and French Order of 30/06/2004):

CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP No.:
106-97-8	800	1900	-	-	-	-
107-98-2	50	188	100	375	*	84

- Switzerland (SUVA 2009):

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Temps:	RSB:
106-97-8	1900	800	-	-	-	-
74-98-6	1800	1000	7200	4000	4x15	-
107-98-2	360	100	720	200	4x15	B

- UK / WEL (Workplace exposure limits, EH40/2005, 2007):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
106-97-8	600 ppm	750 ppm	-	-	-
107-98-2	100 ppm	150 ppm	-	-	-

## 8.2. Exposure controls

### Personal protection measures, such as personal protective equipment

- Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



- Use personal protective equipment that is clean and has been properly maintained.
- Store personal protective equipment in a clean place, away from the work area.
- Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

### - Eye / face protection

- Avoid contact with eyes.
- Use eye protectors designed to protect against liquid splashes
- Before handling, wear safety goggles in accordance with standard EN166.

### - Hand protection

- Wear suitable protective gloves in the event of prolonged or repeated skin contact.
- Type of gloves recommended :
  - Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
  - PVA (Polyvinyl alcohol)

### - Body protection

- Work clothing worn by personnel shall be laundered regularly.
- After contact with the product, all parts of the body that have been soiled must be washed.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1. Information on basic physical and chemical properties**

#### **General information:**

Physical state:	fluid liquid
spray	

#### **Important health, safety and environmental information:**

pH of the substance or preparation:	not relevant.
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- The pH is impossible to measure or its value is not relevant.

Boiling point/boiling range:	117 °C.
Flash point interval:	not relevant.
Vapour pressure:	Below 110 kPa (1.10 bar).
Density:	< 1
Water solubility:	Insoluble.
Self-ignition temperature:	270 °C.

### **9.2. Other information**

- No data available.

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## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

- No data available.

### **10.2. Chemical stability**

- This mixture is stable under the recommended handling and storage conditions in section 7.

### **10.3. Possibility of hazardous reactions**

- When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

### **10.4. Conditions to avoid**

- Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

- Avoid:
- - heating
- - heat
- - humidity
- - contact with air

#### 10.5. Incompatible materials

- Keep away from:
- - strong acids
- - strong oxidising agents

#### 10.6. Hazardous decomposition products

- The thermal decomposition may release/form:
- - carbon monoxide (CO)
- - carbon dioxide (CO<sub>2</sub>)

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

- Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.
- Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.
- Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.
- Splashes in the eyes may cause irritation and reversible damage

#### Acute toxicity:

- CAS: 107-98-2 MONOPROPYLENE GLYCOL METHYL ETHER

Oral route:	DL50 = 4016 mg/kg
Species: Rat (Recommandé par le CLP)	
Dermal route:	DL50 = 2000 mg/kg
Species: Lapin (Recommandé par le CLP)	
Inhalation route :	CL50 = 27.596 mg/l
Species: Rat (Recommandé par le CLP)	

#### Germ cell mutagenicity:

- CAS: 107-98-2 MONOPROPYLENE GLYCOL METHYL ETHER

Mutagenesis (in vivo):	Negative.
Mutagenesis (in vitro):	Negative.

**Carcinogenicity:**

- CAS: 107-98-2 MONOPROPYLENE GLYCOL METHYL ETHER

Carcinogenicity Test:	Negative.
No carcinogenic effect.	
Species: Rat	

**Reproductive toxicant:**

- CAS: 107-98-2 MONOPROPYLENE GLYCOL METHYL ETHER
- No toxic effect for reproduction

**Mixture**

- No toxicological data available for the mixture.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity Substances**

- Substances classified as category 1 chronic toxicity :
- CAS: 107-98-2 MONOPROPYLENE GLYCOL METHYL ETHER
- Fish toxicity:

Duration of exposure: 96 h
CL50 = 6812 mg/l
Species: Leuciscus idus

- Crustacean toxicity:

Duration of exposure: 48 h
CE50 = 23300 mg/l
Species: Daphnia magna

**Mixtures**

- No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

- No data available.

### **12.3. Bioaccumulative potential**

- No data available.

### **12.4. Mobility in soil**

- No data available.

### **12.5. Results of PBT and vPvB assessment**

- No data available.

### **12.6. Other adverse effects**

- No data available.

### **German regulations concerning the classification of hazards for water (WGK):**

- WGK 1 (VwVwS vom 27/07/2005, KBws): Slightly hazardous for water.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

- Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

### **13.1. Waste treatment methods**

- Do not pour into drains or waterways.

#### **Waste:**

- Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
- Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
- Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### **Soiled packaging:**

- Empty container completely. Keep label(s) on container.
- Give to a certified disposal contractor.

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## **SECTION 14: TRANSPORT INFORMATION**

- Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 - IMDG 2010 - ICAO/IATA 2011).
- - Classification:



- UN1950=AEROSOLS, flammable

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
2	5F	-	2.1	-	1 L	190 327 344 625	E0	2	D	
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
2.1	SP63	-	SP277	F-D,S-U	63 190 277 327 959	E0				
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
2.1	-	-	203	75 kg	203	150 kg	A145 A167	E0		
2.1	-	-	Y203	30 kg G	-	-	A145 A167	E0		

## **SECTION 15: REGULATORY INFORMATION**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **- Particular provisions:**

- No data available.

#### **- German regulations concerning the classification of hazards for water (WGK):**

- Germany: WGK 1 (VwVwS vom 27/07/2005, KBws)

### **15.2. Chemical safety assessment**

- No data available.

## **SECTION 16: OTHER INFORMATION**

- Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.
- The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.
- It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
- The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Title for H, EUH and R indications mentioned in section 3:**

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
R 10	Flammable.
R 12	Extremely flammable.
R 67	Vapours may cause drowsiness and dizziness.

**Abbreviations:**

- ADR: European agreement concerning the international carriage of dangerous goods by Road.
- IMDG: International Maritime Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organisation
- RID: Regulations concerning the International carriage of Dangerous goods by rail.
- WGK: Wassergefährdungsklasse (Water Hazard Class).

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