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## Safety data sheet

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Code: SO8211
Product name GREENOL PLUS

Chemical name and synonym Vegetable oil-based resin solution in aliphatic solvent

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

Intended use Primer for wood.

1.3. Details of the supplier of the safety data sheet

Name CARVER S.r.I. Unipersonale Full address Via Papa Giovanni XXIII, 36

District and Country 20090 Rodano (MI)

Italy

Tel. +39 (0)2 9500171 Fax +39 (0)2 95320921

e-mail address of the competent person

responsible for the Safety Data Sheet sds@carver.it

Product distribution by www.carver.it

1.4. Emergency telephone number

For urgent inquiries refer to Centro Antiveleni Niguarda - Milano - tel. +39 (0)2 66101029

Centro Antiveleni Osp. Pediatrico Bambino Gesù - Roma - +39 (0)6 68593726

Az. Osp. Univ. Foggia - Foggia - +39 (0)881 732326 Az. Osp. A. Cardarelli - Napoli - +39 (0)81 7472870 CAV Policlinico Umberto I - Roma - +39 (0)6 49978000 CAV Policlinico A. Gemelli - Roma - +39 (0)6 3054343

Az. Osp. Careggi U.O. Tossicologia Medica - Firenze - +39 (0)55 7947819 CAV Centro Nazionale di Informazione Tossicologica - Pavia - +39 (0)382 24444

Az. Osp. Papa Giovanni XXII - Bergamo - 800883300

## SECTION 2. Hazards identification.

## 2.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: --

## 2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

**EUH066** Repeated exposure may cause skin dryness or cracking.

**EUH210** Safety data sheet available on request.

Precautionary statements:

P102 Keep out of reach of children.

2.3. Other hazards.



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On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## SECTION 3. Composition/information on ingredients.

#### 3.1. Substances.

Information not relevant.

#### 3.2. Mixtures.

#### Contains:

Identification. Classification 1272/2008 (CLP). Conc. %.

**HYDROCARBONS C11-14 < 2% AROMATIC** 

CAS Asp. Tox. 1 H304, EUH066 50 - 60

927-285-2 FC

INDEX.

Rea. no. 01-2119480162-45

**VEGETABLE OIL-BASED RESIN** CAS. 38 - 46

EC.

INDEX.

**ADDITIVES** 

CAS. 3 - 4

EC. INDEX.

POLYPROPYLENE WAX

CAS.

EC. INDFX

1-METHOXY-2-PROPANOL

Flam. Liq. 3 H226, STOT SE 3 H336 0 - 0 1 CAS 107-98-2

EC. 203-539-1 INDEX. 603-064-00-3 Reg. no. 01-2119457435-35

2,6-DI-TERZ-BUTYL-P-CRESOL (HYDROXYTOLUENE BUTYLATE)

CAS 128-37-0 0 - 0.1

EC. 204-881-4

INDEX.

Reg. no. 01-2119565113-46

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## **SECTION 4. First aid measures.**

## 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

Aquatic Chronic 1 H410

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available

## **SECTION 5. Firefighting measures.**

## 5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.



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SECTION 5. Firefighting measures. />>

#### UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

#### 5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures.

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage.**

### 7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

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

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s).

Information not available.

## **SECTION 8. Exposure controls/personal protection.**

## 8.1. Control parameters.

## Regulatory References:

DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.



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SECTION 8. Exposure controls/personal protection.

TLV-ACGIH ACGIH 2014

1-METHOXY-2-PROPANOL										
Threshold Limit Value.										
Type	Country	TWA/8h		STEL/15r	min					
		mg/m3	ppm	mg/m3	ppm					
AGW	DEU	370	100	740	200					
MAK	DEU	370	100	740	200					
VLA	ESP	375	100	568	150	SKIN.				
VLEP	FRA	188	50	375	10	SKIN.				
WEL	GBR	375	100	560	150	SKIN.				
TLV	GRC	360	100	1080	300					
GVI	HRV	375	100	568	150	SKIN.				
TLV	ITA	375	100	568	150	SKIN.				
OEL	NLD	375		563		SKIN.				
NDS	POL	180		360						
NPHV	SVK	375	100	568		SKIN.				
OEL	EU	375	100	568	150	SKIN.				
TLV-ACGIH		184	50	368	100					

2,6-DI-TERZ-BUTYL-P-CRESOL (HYDROXYTOLUENE BUTYLATE)											
Threshold Limit Value.											
Type	Country	TWA/8h		STEL/15min							
		mg/m3	ppm	mg/m3	ppm						
OEL	EU	2									

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

## 8.2. Exposure controls.

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

**EYE PROTECTION** 

None required.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## **SECTION 9. Physical and chemical properties.**

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

Appearance liquid Colour dark brown Odour characteristic, soft Odour threshold. Not available. Not available. Melting point / freezing point. Not available. Initial boiling point. Not available. Not available Boiling range. Flash point. **Evaporation Rate** Not available. Flammability of solids and gases Not available. Lower inflammability limit. Not available. Upper inflammability limit. Not available. Lower explosive limit. Not available. Upper explosive limit. Not available. Not available. Vapour pressure. Vapour density Not available. Relative density. 0,87 Kg/l



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## SECTION 9. Physical and chemical properties. />>

Solubility

Partition coefficient: n-octanol/water

Auto-ignition temperature.

Decomposition temperature.

Viscosity

Explosive properties

Oxidising properties

9.2. Other information.
Information not available

soluble in white spirits

Not available.

Not available. Not available.

>20,5 mm2/sec (40°C)

Not available.

Not available.

## SECTION 10. Stability and reactivity.

#### 10.1. Reactivity.

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

1-METHOXY-2-PROPANOL: absorbs and disolves in water and in organic solvents, dissolves various plastic materials; it is stable but with air it may slowly form explosive peroxides.

#### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

1-METHOXY-2-PROPANOL: can react dangerously with strong oxidising agents and strong acids.

#### 10.4. Conditions to avoid.

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

1-METHOXY-2-PROPANOL: avoid exposure to the air.

### 10.5. Incompatible materials.

1-METHOXY-2-PROPANOL: oxidising agents, strong acids and alkaline metals.

## 10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## **SECTION 11. Toxicological information.**

#### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

1-METHOXY-2-PROPANOL: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

HYDROCARBONS C11-14 < 2% AROMATIC

LD50 (Dermal). > 5000 mg/kg Rabbit LC50 (Inhalation). > 5000 mg/kg Rat

2,6-DI-TERZ-BUTYL-P-CRESOL (HYDROXYTOLUENE BUTYLATE)

LD50 (Dermal). > 5000 mg/kg Rat

1-METHOXY-2-PROPANOL

 LD50 (Oral).
 5300 mg/kg Rat

 LD50 (Dermal).
 13000 mg/kg Rabbit

 LC50 (Inhalation).
 54,6 mg/l/4h Rat



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## **SECTION 12. Ecological information.**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

## 12.1. Toxicity.

HYDROCARBONS C11-14 < 2% AROMATIC

LC50 - for Fish. > 1000 mg/l/96h Fish

EC50 - for Crustacea. > 1000 mg/l/48h Tetrahymena pyriformis

## 12.2. Persistence and degradability.

1-METHOXY-2-PROPANOL

Solubility in water. mg/l 1000 - 10000

Rapidly biodegradable.

## 12.3. Bioaccumulative potential.

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water. < 1

## 12.4. Mobility in soil.

Information not available.

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects.

Information not available.

## **SECTION 13. Disposal considerations.**

#### 13.1. Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING** 

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

After use, immerse the rags which are soaked with the product in water to prevent spontaneous combustion.

## **SECTION 14. Transport information.**

## 14.1. UN number.

Not applicable.

## 14.2. UN proper shipping name.

Not applicable.

## 14.3. Transport hazard class(es).

Not applicable.

## 14.4. Packing group.

Not applicable.

### 14.5. Environmental hazards.

Not applicable.



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SECTION 14. Transport information. />>

14.6. Special precautions for user.

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

## **SECTION 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 EC Regulation 1907/2006.

None.

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisarion (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Information not available.

VOC (Directive 2004/42/EC):

Minimal build woodstains.

VOC given in g/litre of product in a ready-to-use condition :

Limit value: 700,00 (2010) VOC of product : 449,00

### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

## **SECTION 16. Other information.**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

**Flam. Liq. 3** Flammable liquid, category 3 **Asp. Tox. 1** Aspiration hazard, category 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

**H226** Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.H336 May cause drowsiness or dizziness.

**H410** Very toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

**EUH210** Safety data sheet available on request.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)

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#### SECTION 16. Other information. .../>>

- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

## Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01/02/03/08/09/11/15/16.

Changed TLVs in section 8.1 for following countries:

EU,