

**TECHNICAL DEPARTMENT**

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Safety data sheet according Regulation (EC) n. 453/2010.

Last version 0005 of 27<sup>th</sup> February 2019.

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**SECTION 1: Product and Society identification**

**1.1 Product identification**

Denomination: **Oriplast Reflex**

N° of Registration Reach: exempt.

**1.2 Relevant identified uses of product and recommended uses**

Waterproofing and one-component water-based acrylic liquid coating.

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

Name of the society: Diasen s.r.l.  
Z.ind.le Berbentina, 5  
60041 Sassoferrato An – Italy  
Tel. +39 0732 9718  
Fax +39 0732 971899  
E-mail: [reach@diasen.com](mailto:reach@diasen.com)

**1.3 Emergency telephone number**

Emergency telephone number of the company and / or official advisory body:

Diasen s.r.l. Tel. 0732/9718

Available outside working hours? No.

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

This product does not meet the classification criteria in any hazard class, according to the regulation (EC) n. 1272/2008 related to classification, labelling and packaging of substances and mixtures.

**2.2 Label elements**

Label according the regulation (EC) n. 1272/2008 [CLP]

*Hazard pictograms:* none.

*Warnings:* none.

*Hazard statements:* none.

Safety advise: none.

*Additional information on dangers (EU):*

EUH 210: Safety data sheet available on request.

EUH 208: May produce an allergic reaction. Contains: (< 0,0011%) *mixture of: 5-chlorine-2-methyl-2H -isotiazol-3-one [EC no 247-500-7]; 2-metil-2 H -isotiazol-3-one.*

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**2.3 Other hazards**

No available data.

Classification and labelling have been made on the basis of safety data sheets of raw materials that compose the product.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable. The product is a mixture.

**3.2 Mixtures**

**Dangerous substances that determine the classification:** none.

**Dangerous substances that do not determine the classification:**

CAS Number	EC Number	INDEX	% [weight ]	Name	Classification according to Regulation (EC) n.1272/2008 (CLP)	
					Hazard Class and Code	Hazard statements
52-51-7	200-143-0	603-085-00-8	< 0.01	<b>bronopol (INN) 2-bromo-2-nitropropane-1,3-diol</b>	Acute Tox. 4 oral Acute Tox. 4 skin Skin Irrit. 2 Eye Dam. 1 STOT SE 3 Aquatic Acute 1 Aquatic Chronic 2  Factor M Acute = 10	H 302 H 312 H 315 H 318 H 335 H 400 H 411
55965-84-9	220-239-6	613-167-00-5	0 – 0.0011	<b>Mixture of: 5-chlorine-2-methyl-2H -isotiazol-3-one [EC no 247-500-7]; 2-methyl-2 H -isotiazol-3-one</b>	Skin Corr. 1B Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1 Oral Acute Tox. 3 Dermal Acute Tox. 3 Inhal Acute Tox. 3	H 314 H 317 H 400 H 410 H 301 H 311 H 331

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*Additional information:*

It contains quartz (SiO<sub>2</sub>) in a non-threatening way as it is dispersed and therefore not inhalable under normal use conditions.

For the full text of the H advice: see SECTION 16.

Impurity:

It does not contain impurities relevant for classification and labelling.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### In case of inhalation

Ventilate the premises. Remove the person from the contaminated premises to an open air space. If you feel unwell seek medical advice, showing this safety data sheet or the label.

##### In case of skin contact

Remove all traces of product and rinse immediately the contaminated body surfaces with water and soap. Remove contaminated clothes. If necessary seek medical advice, showing this safety data sheet or the label. Wash all clothing and shoes before reuse.

##### In case of contact with eyes

Do not rub. Rinse immediately with plenty of running water, with eyelids open, for at least 15 minutes. If the irritation persists, seek medical advice, showing this safety data sheet or the label.

##### In case of ingestion

Rinse mouth with water; drink 1 or 2 glasses of water. Do not induce vomit. Never give anything by mouth to an unconscious person. Move the exposed person to fresh air and if necessary call a doctor, showing this safety data sheet or the label.

#### 4.2 Main symptoms and effects, both acute and delayed.

No available data.

#### 4.3 Indication of any immediate medical attention or special treatment

No specific treatment. Don't take any action involving personal risks without appropriate training.

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### SECTION 5: Fire fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing agents: pulverised water, extinguishing powder, alcohol-resistant foam, carbon dioxide. Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing agents: water jet.

#### 5.2 Special hazards arising from the substance

Dangers of the substance or mixture: in case of fire toxic products can develop (carbon oxide, nitrogen oxide). Thermal decomposition of flammable or toxic products can produce acrylate, methacrylate and styrene.

#### 5.3 Advice for fire-fighters

Promptly isolate the scene by removing people from the vicinity of a fire. Don't take any action involving personal risks without appropriate training. Fire fighters should wear self-breathing device and complete protective clothing. Use extinguishing measures appropriate to local circumstances and the surrounding environment. Fire water contaminated with this material must be contained and its access to any waterway, sewers or drains must be prevented.

## SECTION 6: Measures in case of accidental release

### 6.1 Personal precautions, protective equipments and emergency procedures

#### 6.1.1 For non-emergency personnel

Remove all those who do not have appropriate protection and ensure adequate ventilation.

Avoid contact with skin, eyes and clothing - wear the appropriate personal protective equipment (see section 8).

Avoid inhalation of vapour - ensure adequate ventilation or wear protective equipment, as well as appropriate protective clothing (see section 8). Do not walk on the product poured on the ground, it can make surfaces slippery.

#### 6.1.2 For emergency responders

Remove people who do not wear any protective equipment and ensure adequate ventilation.

Avoid contact with skin, eyes and clothing - wear suitable protective equipment (see section 8).

Avoid inhalation of vapours - wear protective mask / protective device appropriate (see section 8).

Do not walk on the product poured on the ground, it can create slippery surfaces.

### 6.2 Environmental precautions

Contain the spillage. Avoid that the product uncontrollably reaches water course or sewage system. In the event of any spillage into waterways, alert the Environment Agency or other body in charge of environmental protection.

### 6.3 Methods and material for containment and recovery

Small quantities: collect the spillage with absorbent material (sand, vermiculite and perlite), pour in suitable and labelled containers with lids and dispose of according local, national and EU regulations. Treat the washing water the same way as contaminated waste.

Big quantities: approach the release source from upwind and transfer the spilled material in a labelled container to recover the product or to dispose of it safely in accordance with local, national and EU regulations. Treat as small quantities. If the spill happened indoors ventilate the room.

### 6.4 Reference to other sections

For more information regarding exposure controls / personal protection and disposal considerations see sections 8 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### 7.1.1 Protection measures

Avoid contact with skin, eyes and mucous membranes. Wear protective equipment for hands, eyes and skin (see section 8). Do not breathe vapours, aerosols or gases. Do not eat, drink and smoke in work areas. Store away from flames or sparks. Wash hands after use and remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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### 7.1.2. Advice on general occupational hygiene

Avoid inhalation, ingestion or contact with skin and eyes. Wash hands after handling. It is necessary to apply general occupation hygiene to guarantee a safe handling of the substance. These measures include good personal practices, regular cleaning of workplaces, do not drink, eat or smoke in the workplace. Take a shower and change clothes when you're not working. Do not wear contaminated clothing at home. Wash them separately.

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

Store the product in its original and well closed containers, in well ventilated areas, away from sunlight, water and frost, at temperatures between + 5 ° C and + 35 ° C.

Do not store near ignition sources, flames or excessive heat. Avoid store together with non-compatible materials (acids, strong oxidizing agents).

**Recommendations:** Use original container.

### 7.3 Specific end uses

Not applicable.

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## SECTION 8: Exposure controls/ personal protection

### 8.1 Control parameters

#### Exposure Limit Values:

The product contains quartz, and in United Kingdom is subjected to a mandatory maximum exposure limits of 0.3 mg/m<sup>3</sup> of breathable quarts in a time-weighted average of 8 hours. If these limits are exceeded , it must be used a system for the extraction of the powder.

The occupational exposure limit (LEP) for breathable crystalline silica dust is 0.025 mg/m<sup>3</sup> , measured in Italy as TWA (time-weighted average).

Such exposure limit should not be taken into account under normal use and storage conditions, because is present inside the product in a liquid form and therefore is not inhalable.

For the equivalent limits in other countries, consult a competent occupational hygienist or the institution of field.

### 8.2 Exposure control

To limit potential exposure, prevent the generation of vapour or aerosol. In addition, it is recommended to wear protective equipment. Wear protection devices for eyes (e.g. goggles or face shield) unless the potential contact with the eye can be excluded by the nature and the type of application.

#### 8.2.1 Appropriate engineering controls

If the use of the product creates vapours, use local ventilation or other technical means to maintain the exposition levels in the air below the recommended exposure limits.

#### 8.2.2 Individual protection measures, such as personal protective equipment

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### 8.2.2.1 Eye/face protection

Use tight fitting goggles with side shields, or mask type according to the standard EN 166. Use an eye protection compatible with the system used for the protection of the respiratory tract. It is also recommended to bring individual pocket eyewash.

### 8.2.2.2 Skin protection

Wear suitable protective gloves (PVC, neoprene, nitrile rubber), according to EN 374 part 1 and 2. It should be noticed that, because of several factors (for example temperature), the duration of a glove for protection against chemical agents may considerably be lower than the permeation time detected by the test. Change gloves in case of wear or internal contaminations.

Wear standard protective clothing covering the entire surface of the skin.

### 8.2.2.3 Respiratory protection

Under normal conditions of use, it is not necessary to use a mask. In case of poor ventilation, wear a device for the protection of respiratory tract, according to the Standard EN 136.

### 8.2.2.4 Thermal hazards

No available data.

### 8.2.3 Environmental exposure controls

Contain the spillage. In the event of any spillage into waterways, alert the Environment Agency or other body in charge of environmental protection.

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## SECTION 9: Physical And Chemical Proprieties

### 9.1 Information on basic physical and chemical properties

Aspect:	liquid
Colour:	white
Odour:	light typical
Odour threshold:	N.D.
Melting point:	0°C (water)
Initial boiling point and boiling range:	100°C (water)
Flashing point:	N.A. (not flammable)
Evaporation rate:	N.D.
Flammability:	N.A. (water based product)
Upper / lower flammability or explosive levels:	N.A. (water based product)
Vapour pressure:	N.D.
Vapour density:	N.D.
Relative density:	1.40 kg/l
Solubility:	partially water soluble
Subdivision coefficient of n-octane / water coefficient:	N.D.
Auto-ignition temperature:	N.A. (water based)
Decomposition temperature:	N.A.
Viscosity:	N.D.
Explosive properties:	N.A. (not explosive)
Oxidizing properties:	N.D.

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Note: the above values related to physic-chemical properties are typical values for this product and should not, therefore, be considered as a specification.

### 9.2 Other information

No available data.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction if prescriptions/suggestions for handling and storage are respected.

### 10.2 Chemical stability

The product is stable at room temperature and under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

The product is stable at room temperature and under normal conditions of use.

### 10.4 Conditions to avoid

The product should be stored in closed containers in ventilated places, well protected from the sun, water and ice, at temperatures between +5°C and +35°C. Do not store near sources of heat. Do not store near sources of ignition, open flames or excessive heat.

### 10.5 Incompatible Materials

Oxidizing agents and acids.

### 10.6 Hazardous decomposition products

High temperature thermal decomposition can create acrylates, methacrylate and styrene.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

In absence of experimental toxicological data of the product itself, toxicological information for health have been evaluated based on properties of contained substances, according to criteria expected by the reference standard for the classification.

Acute toxicity: no dangerous substance is contained inside the mixture for the evaluation of toxicity.

Irritation / corrosion: if the product, when drying, sticks to the skin, it may cause an irritation.

Irritation of respiratory tract: prolonged exposure to fumes and/or vapour may potentially cause eye irritation or to upper respiratory tract.

Sensitization of respiratory tract or skin: The formulation may, in particularly sensitive individuals, cause light effects on health, due to inhalation exposure, skin absorption and/or eye contact and/or ingestion.

Mutagenicity on germ cells: all available information does not provide any indication on a potential mutagenic effect.

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Carcinogenicity:	all available information does not provide any indication on a potential carcinogenic effects.
Reproduction toxicity:	all available information does not provide any indication on a potential toxic effect on reproduction.
toxicity development:	all available information does not provide any indication on a potential developmental toxicity.
Repeated dose toxicity and toxicity specific for target organs (repeated exposure):	all available information does not provide any indication on a potential toxicity of repeated dose and toxicity specific for target organs (repeated exposure).
Other indications on toxicity:	all available information does not provide any indication on other indications for toxicity.

The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of raw materials that composes the product.

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## SECTION 12: Ecological information

### 12.1 Toxicity

In absence of experimental toxicological data on the product itself, toxicological information for the environment have been evaluated based on properties of contained substances, according to criteria expected by the reference standard for the classification.

**Toxicological information about the mixture:** no available data.

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**Toxicological information about main substances of the mixture:** no dangerous substances is contained in the mixture for toxicity evaluation.

### General effect

No available data.

### 12.2 Persistence and degradability

It is considered as non-biodegradable.

Do not pour the product in the pipeline and water course, if the product has escaped into a water course into the drainage system or has contaminated the ground or vegetation, notify the competent authorities.

### 12.3 Bio-accumulative potential

A bio-accumulative potential is not predictable.

### 12.4 Mobility in soil

The product has mobility potential.

Assessment transport between environmental compartments: no available data.

### 12.5 Results of evaluations on the PBT or vPvB

According to information on substances, it was found that the mixture does not meet the criteria for PBT/vPvB.



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### 12.6 Other adverse effects

No available data.

### 12.7 Additional information

Absorbable organic halogen compounds (AOX): No available data.

The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of raw materials that compose the product.

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## SECTION 13 : Disposal considerations

### 13.1 Waste treatment methods

Re-use, if possible. Dispose of according to National or local regulation.

Packaging: The package used is intended exclusively for the packaging of this product. All containers, even if completely empty, must not be dispersed in the environment and they must be subjected to a proper decontamination treatment before starting the disposal. If they contain residues, they must be classified, stored and sent to a suitable treatment facility in accordance with applicable local, national and Community rules.

Disposal of expired product (code CER): 08 01 12

Disposal of clean plastic packaging (code CER): 15 01 06

Disposal of the plastic packaging with product residues (code CER): 15 01 10

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## SECTION 14: Transport information

Product classified as not dangerous substance for transport (ADR for road, RID for rail, sea transport ADN internal IMDG / GGV Sea by sea, IATA / ICAO aviation).

### 14.1 ONU Number

Not regulated.

### 14. Proper ONU Shipping Name

Not regulated.

### 14.3 Hazard class for transport

Product classified as not dangerous for transport.

### 14.4 Packaging group

Not regulated.

### 14.5 Environmental hazards

Product classified as not dangerous for transport.

### 14.6 Special precautions for users

No available data.

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### 14.7 Transport of the product in accordance with the MARPOL73 / 78 and the IBC Code

No available data.

*Transportation classifications may vary according to different national laws.*

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## SECTION 15: Information on regulation

### 15.1 Safety, health and environmental regulations/legislation specific for the product

Community regulations:	67/548/CEE Directive and subsequent amendments (classification, packaging and labelling of dangerous substances). Regulation EC/1907/2006 and subsequent amendments (Registration, Evaluation, Authorization, and Restriction of REACH Chemicals) Regulation CE/1272/2008 (classification, Labelling and Packaging of substances and mixtures)
National regulations:	Presidential Decree 1124/65 (consolidated law for compulsory insurance against accidents at work and occupational diseases: Leg. 152/06 and subsequent amendments (environmental standards) Leg. 475/82 and subsequent amendments (Implementation of Directive 89/686 / EEC of 21 December 1989 on the approximation of the laws of the Member States relating to personal protective equipment) Legislative Decree 81/08 and subsequent amendments (implementation of art. 1 of the Law 3/8/2007, concerning the protection of health and safety in the workplace).

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### 15.2 Chemical Safety Assessment (CSA)

Not required. Exempt from REACH registration.

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## SECTION 16: Other Information

### Full text of abbreviated H statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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### Classification and procedure used to derive it in compliance with Regulation (EC) 1272/2008 [CLP] in relation to the mixtures:

Classification in accordance with Regulation (EC) No 1272/2008	Classification procedure
No hazard determines the classification.	Minimum classification.

### Abbreviations and acronyms:

EC <sub>50</sub> :	median effective concentration.
LC <sub>50</sub> :	median lethal concentration.
LD <sub>50</sub> :	median lethal dose.
NOEC:	no observable effect concentration.
PNEC:	predicted no-effect concentration.
OEL:	occupational exposure limit.
PBT:	persistent, bioaccumulative, toxic chemical.
vPvB:	very persistent, very bioaccumulative chemicals.
STEL:	short-term exposure limit.
TWA:	time weighted average.
OIM:	International Maritime Organization.
IMDG:	International Maritime Dangerous Goods.
IATA:	International Air Transport Association.
ADR/RID:	Agreement on road transport of dangerous good / regulations of the international transport of dangerous goods by rail.
SCOEL:	Scientific Committee on Occupational Exposure Limits.
CSAH:	Comité Scientifique en matière d'Alimentation Humaine.

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### Key literature references and data sources

The Merck Index Ed. 10;  
 Handling Chemical Safety;  
 Anonymous, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0 [SCF document].  
 Anonymous, 2007: HERAG fact sheet - assessment of occupational dermal exposure and dermal absorption for metals and inorganic metal compounds; EBRC Consulting GmbH, Hannover, Germany; August 2007.  
 Anonymous, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)<sub>2</sub>), Direzione Generale per l'Occupazione, gli Affari Sociali e le Pari Opportunità della Commissione Europea, SCOEL/SUM/137 February 2008.  
 MEASE: Metals estimation and assessment substance exposure, EBRC Consulting GMBH for Eurometaux, <http://www.ebrc.de/ebrc/ebrc-mease.php>  
 Bureau Européen des substances Chimiques (ECB) (European offices of chemicals)  
 CIRC (Centre International de Recherche sur le Cancer) (Centro internazionale di ricerca sul cancro).  
 HSDB (Hazardous Substances Data Bank) (National Library of Medicine).  
 INRS (Institut National de Recherche et de Sécurité).  
 IUCLID (International Uniform Chemical Information data Base).

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RTECS (Registry of Toxic effects of Chemical Substances).

NIOSH – Registry of toxic effects of chemical substances (1983).

National Institute of Health – Safety data sheets of organic solvents used in industrial technological processes (1985).

National Institute of Health – National chemicals inventory.

ECDIN – Environmental chemicals data and information network – Joint research centre, Commission of the European Communities.

ACGIH – Threshold limit values (2000).

SAX'S – Dangerous properties of industrial materials – tenth edition.

### Release:

This safety data sheet (SDS) is based on legal provisions contained in the REACH Regulation (EC / 1907/2006), as amended and supplemented. The information contained herein is based on information described in SDS of raw materials that compose the product and on our knowledge at the indicated date. It only refers to the specified product and it does not constitute a guarantee of particular quality.

No statement or guarantee concerning accuracy, reliability, and completeness of the data contained in this SDS is released. The company does not take any liability for damages to people or things that may result from a product usage different from the intended one. The SDS does not replace but completes tests or rules that regulate the activity of employment. The user has full responsibility for the necessary precautions concerning how the product will be used. This safety data sheet revokes and replaces any previous edition.

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Indications of changes to the previous version of the SDS: review of the entire document.

This SDS is available in digital form on the website: [www.diasen.com](http://www.diasen.com).

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