

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

Last version 0005 of 4 May 2015.

SECTION 1: Product and Society identification

1.1 Product identification

Denomination: **WATstop BLACK COLOR (part A)**
N° of registration Reach: free.

1.2 Relevant identified uses of product and recommended uses

Three-component epoxy resin to waterproof both with negative and positive pressure, to be used as osmotic over underground walls, to encapsulate rising dampness and to achieve a vapour barrier on wet supports.

1.3 Details of the supplier of the safety data sheet

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

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1.4 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.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Acute Tox. 4	H 302
Skin Corr./Irrit. 2	H 315
Eye Dam. 1	H 318
Eye Dam./Irrit. 2	H 319
Skin Sens. 1	H 317
Muta. 2	H 341
Aquatic Chronic 2	H 411

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2.2 Label elements

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

Hazard pictograms



Warning:
Caution.

Hazard statement:

H 302
H 315
H 318
H 319
H 317
H 341
H 411

Safety advice:

P 280
P 305 + P 351 + P 338
P 310
P 405
P 501

Additional information on the dangers (EU):

EUH 205 – It contains epoxy constituents. It may cause an allergic reaction.

2.3 Other hazard

Data no available.

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

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable. The product is a mixture.

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3.2 Mixture
Hazard substance:

Registration number (CE)	Number CAS	Number CE	% [weight]	Name	Classification according to Regulation (CE) n.1272/2008 (CLP)	
					Hazard Class and Category Code	Hazard statement (Phases H)
01-2119456619-26	25068-38-6	500-033-5	30 - 40	Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	Skin Sens. 1 Skin Corr./Irrit. 2 Eye Dam./Irrit. 2 Aquatic Chronic 2	H 317 H 315 H 319 H 411
01-2119431597-33	26761-45-9	247-979-2	5 - 7	Neodecanoate of 2,3 epoxypropyl	Skin Sens. 1 Aquatic Chronic 2 Muta. 2	H 317 H 411 H 341
	9016-45-9	500-024-6	0 – 1.5	Nonylphenyl ether of polyethylene glycol	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 2	H 302 H 315 H 318 H 411

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Additional Information:

It contains quartz (SiO₂) in a non-threatening as dispersed and therefore not inhalable.
 For the full text of the H advice: see. SECTION 16.

Impurity:

It does not contain impurities relevant for classification and labelling.

SECTION 4: First aid measures
4.1 Description of aid measures
In case of inhalation

Ventilate the premises. Remove the patient from the contaminated premises to rest in the open air.
 If you feel unwell seek medical advice, showing this safety data sheet. Loosen tight clothing such as a collar, tie, belt or waistband.

In case of contact with skin

Remove all traces of product and rinse with water the contaminated body surfaces. Continue to rinse for at least 10 minutes. Remove contaminated clothing. If necessary seek medical advice, showing this safety data sheet. Wash all clothing and shoes before reuse.

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In case of contact with eyes

Do not rub. Rinse immediately with plenty of running water, with eyelids open, for at least 15 minutes. In case of presence of contact lenses, remove them. If irritation persists, seek medical advice, showing this safety data sheet.

If swallowed

Rinse mouth with water, drink 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Move exposed person to fresh air. Call a doctor immediately, showing this safety data sheet. If unconscious, place in recovery position and get medical attention immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Indication of any immediate medical attention or special treatment

No symptoms are observed both acute and delayed.

The negative symptoms associated with overexposure may include:

- Redness and irritation to the skin,
- Irritation, tearing and redness in the eyes.

4.3 Indication of any immediate medical attention or special treatment

No specific treatment. Treat symptomatically. Should have been ingested or inhaled large amounts, immediately contact a poison control centre.

Not to be no action taken involving any personal risk or without suitable training. Perform mouth-to-mouth can be dangerous to the person providing aid. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents: dry chemical, CO₂, alcohol-resistant foam or water spray. Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing agents: jet.

5.2 Special hazards arising from the substance

Dangers of the substance or mixture: In case of fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition: the decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds.

5.3 Advice for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of a fire. Not to be no action taken involving any personal risk or without suitable training. Use the means of extinction appropriate to local circumstances and particular environment. Fire water contaminated with this material must be contained and must prevent access to any waterway, sewer or drain.

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insufficient ventilation, wear respiratory protection. Do not breathe vapours, aerosols or gases. Do not eat, drink and smoke in work areas. Wash hands after use and remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.1.2. Advice on general occupational hygiene

Avoid inhalation, ingestion or contact with skin and eyes. They also require general measures of hygiene at work to ensure the safe handling of the substance. You must apply measures general hygienic measures to ensure the 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

The product should be stored in a dry place, away from sunlight, water and frost, at temperatures between + 5 ° C and + 35 ° C in original packaging intact and air tight. Do not store near sources of ignition, open flames or excessive heat.

Avoid store together with non-compatible materials that may give decomposition after contamination with the product, such as the peroxides. Incompatible materials: strong oxidizing agents sodium hydroxide.

Recommendations: Use original container.

7.3 Specific end uses

No applicable.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure Limit Values:

DNEL			
Component denomination	Exposition / effects	DNEL	Population
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	In the short term Dermal /Systemic	8.3 mg/kg bw/day	Workers
	In the short term Inhalation / Systemic	12.3 mg/m ³	Workers
	In the short term Dermal /Systemic	8.3 mg/kg bw/day	Workers
	In the short term Inhalation / Systemic	12.3 mg/m ³	Workers
	In the short term Dermal /Systemic	3.6 mg/kg bw/day	General
	In the short term Inhalation / Systemic	0.75 mg/m ³	General
	In the short term Oral/Systemic	0.75 mg/kg bw/day	General
	Long terming Dermal /Systemic	3.6 mg/kg	General

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		bw/giorno	
	Long term Inhalation / Systemic	0.75 mg/m ³	General
	Long term Oral/Systemic	0.75 mg/kg bw/giorno	General
neodecanoate of 2,3-epoxypropyl	Long term Oral/Systemic	1.4 mg/kg bw/giorno	Workers
	Long term Inhalation / Systemic	1.96 mg/m ³	Workers
	Long term Dermal /Systemic	0.7 mg/kg bw/giorno	General
	Long term Inhalation / Systemic	1 mg/m ³	General
	In the short term Oral/Systemic	1.1 mg/kg bw/giorno	General

Component denomination	Detail environment	PNEC
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	Fresh water	3 µg/l
	Marine	0.3 µg/l
	Sewage Treatment Plant	10 mg/l
	Sediment running water	0.5 mg/kg dwt
	Sediment seawater	0.5 mg/kg dwt
	Sediment	0.05 mg/kg dwt
	Discontinuous Release	0.013 mg/l
neodecanoate of 2,3-epoxypropyl	Fresh water	0.0035 mg/l
	Marine	0.35 µg/l
	Sewage Treatment Plant	50 mg/l
	Continuous Release	0.035 mg/l

The product contains quartz, and the United Kingdom is subject to a mandatory maximum exposure limit of 0.3 mg / m³ of breathable quartz in a time-weighted average of 8 hours. If these limits are exceeded must use a system for the extraction of the powder. The occupational exposure limit (LEP) for breathable crystalline silica dust is 0.025 mg / m³ measured in Italy as TWA (time-weighted average).

Such exposure limit is wrong taken into account in the normal conditions of use and storage as is present inside the product in a liquid dispersion and therefore 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 the 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.

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8.2.1 Appropriate engineering controls

If the use of the product creates fumes, use local exhaust ventilation or other technical means to keep exposure below recommended exposure limits.

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

8.2.2.1 Eye/face protection

Do not use contact lenses. Use tight fitting goggles with side shields, or mask type conforming to EN 166 (single lens glasses, safety glasses or goggles to mask for chemical use). Use an eye protection compatible with the system used for the protection of the respiratory tract. It is also recommended that you bring the individual pocket eyewash.

8.2.2.2 Skin protection

Wear suitable protective gloves (PVC gloves, nitrile rubber, natural rubber, neoprene gloves nitrile rubber, butyl rubber or butyl rubber gloves to the elbow), conforming to EN 374 part 1 and 2. One must keep in mind that, because of several factors (for example temperature), the duration of a glove for protection against chemical agents may be considerably lower than the permeation time detected by the test. Change protective gloves used in the presence of signs of wear or contamination. Wear protective clothing standards covering the entire surface of the skin, long pants, long-sleeved suit, adhering to the end and safety boots resistant to chemical attack without holes for the laces.

8.2.2.3 Respiratory protection

Wear a device for respiratory protection meeting the requirements of European or national legislation. If it exceeds the occupational exposure limit is necessary to use an air-purifying respirator (EN149FFP2). In confined spaces wear half-mask with filter coupled organic vapour / dust NPF 20 (gas only). If the product is applied by spraying it is recommended wear an independent respirator.

8.2.2.4 Thermal hazards

No data available.

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.

SECTION 9: Physical And Chemical Proprieties

9.1 Information on basic physical and chemical properties

Aspect:	liquid
Colour:	black
Odour:	characteristic
Odour threshold:	not determined
Specific weight:	1.53 kg/l
Melting point / freezing point:	not determined

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Initial boiling point and boiling range:	> 200°C
Flash point:	about 110°C.
Evaporation Rate:	not determined
Flammability:	not determined
Upper / lower flammability or explosive:	not determined
Vapour pressure:	not determined
Vapour Density:	not determined
Relative density:	not determined
Solubility:	miscible in water
Coefficient of n-octane / water:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
viscosity:	not determined
Explosive properties:	not determined
Oxidizing properties:	not determined

Note: the above values related to physicochemical properties are typical values for this product and should not, therefore, be construed as a specification.

9.2 Other information

No data available.

10. SECTION 10: Stability and reactivity

10.1 Reactivity

It reacts with strong oxidizing agents. Polymerizes, with exothermic reaction, in the presence of amines, mercaptans, and Lewis acids, at room temperature and above. Polymerizes in the presence of caustic soda. It reacts exothermically with bases (e.g. caustic soda) ammonia, primary and secondary amines, alcohols, water and acids.

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. It reacts with strong oxidizing agents. It can release nitrogen oxides and carbon monoxide during combustion.

10.4 Conditions to avoid

The product should be stored in closed containers in ventilated places, well protected from the sun, water, freezing conditions at temperatures between + 5 ° C and + 35 ° C. Do not store near sources of ignition, open flames or excessive heat. Do not store together with incompatible materials such as caustics.

10.5 Incompatible Materials

Strong oxidizing agents, sodium hydroxide.

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10.6 Hazardous decomposition products

It does not generate decomposition products in normal conditions of storage and use.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated based on the properties of substances, according to the criteria laid down by the relevant regulations for the classification. Consider, therefore, the concentration of each substance dangerous possibly mentioned in sect. 3, to assess the toxicological effects resulting from exposure to the product.

Toxicological information of the mixture: No data available.

Toxicological information of the main substances in the mixture:

Acute toxicity

Substance	Specification	assumption	Specie	Value	Result
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	DL50	Oral	Rat	> 2000 mg/kg	Not acutely toxic.
neodecanoate of 2,3-epoxypropyl	DL50	Oral	Rat	>9.7 mg/kg	Not acutely toxic.
	DL50	Dermal	Rat	>3.9 mg/kg	
Nonylphenyl ether of polyethylene glycol	DL50	Oral	Rat	1.31 mg/kg	
	DL50	Dermal	Rabbit	2.0 mg/kg	

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Corrosion / irritation of the skin

Substance	Results
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	No test data available and relevant.
neodecanoate of 2,3-epoxypropyl	Not irritating to the skin.
Nonylphenyl ether of polyethylene glycol	No test data available and relevant.

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Eye irritation or serious eye damage

Substance	Results
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight \leq 700)	Not irritating to the skin.
neodecanoate of 2,3-epoxypropyl	Not irritating to the skin.
Nonylphenyl ether of polyethylene glycol	No test data available and relevant.

Skin sensitization

Substance	Results
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight \leq 700)	Skin sensitizer.
neodecanoate of 2,3-epoxypropyl	Skin sensitizer.
Nonylphenyl ether of polyethylene glycol	No test data available and relevant.

Respiratory Sensitization

Substance	Results
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight \leq 700)	No test data available and relevant.
neodecanoate of 2,3-epoxypropyl	No test data available and relevant..
Nonylphenyl ether of polyethylene glycol	No test data available and relevant.

Germ cell mutagenicity

Substance	Results
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight \leq 700)	It induces gene mutation test strains Ames / Salmonella TA1535 and TA100. In general, the mutagenic activity was greater without metabolic activation S9 liver. Induced gene mutation in mouse lymphoma L5178Y cells. Induced gene mutation and chromosomal damage in Chinese hamster V79 cells. Induced cell transformation in Syrian hamster BHK cells on the basis of clonal growth in soft agar. It induced no evidence of chromosomal damage in a study with oral probe in a dominant lethal test on mice conducted up to a high level of dosage of 10 grams / kg

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	and in a micronucleus test on mice conducted to a high dose of 5000 mg / kg. Negative in a cytogenetic test spermatocitico on male mice with treatment for 5 days orally by gavages using up to a high dose of 3000 mg / kg. Did not induce an increase in the frequency of chromosome damage in a cytogenetic test of bone marrow cells of Chinese hamster oral gavage up to a high dose of 3300 mg / kg. Did not induce an increase of strand breaks of DNA in cells of rat liver after treatment with oral gavage with 500 mg / kg, measured by alkaline elution.
neodecanoate of 2,3-epoxypropyl	Substance which cause concern for mutagenic effects
Nonylphenyl ether of polyethylene glycol	No test data available and relevant.

Carcinogenicity

Substance	Results
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	No evidence of carcinogenicity observed.
neodecanoate of 2,3-epoxypropyl	No evidence of carcinogenicity observed.
Nonylphenyl ether of polyethylene glycol	No test data available pertinent.

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Reproductive toxicity

Substance	Results
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)	No adverse effect on reproduction was seen in a study with GLP probe oral rat / two generations according to OECD n. 416, led up to a level of high dosage of 750 mg / kg / day which resulted in decreases in body weight in the adult.
neodecanoate of 2,3-epoxypropyl	No test data available and relevant.
Nonylphenyl ether of polyethylene glycol	No test data available and relevant.

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STOT – single exposure

Substance	Results
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight \leq 700)	No adverse effect on reproduction was seen in a study with GLP probe oral rat / two generations according to OECD n. 416, led up to a level of high dosage of 750 mg / kg / day which resulted in decreases in body weight in adults.
neodecanoate of 2,3-epoxypropyl	No test data available and relevant
Nonylphenyl ether of polyethylene glycol	No test data available and relevant

STOT – Repeated Exposure

Substance	Results
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight \leq 700)	In sub-chronic oral toxicity study on rats conducted according to OECD n. 408, the NOAEL was 50 mg / kg / day. Significant evidence of haematotoxicity, related to dose, was observed at doses of 250 and 1000 mg / kg / day. There was a significant increase in blood urea nitrogen at 250 and 1000 mg / kg / day and a mild histopathologic evidence of involvement of the kidneys to the high dose of 1000 mg / kg / day. Histological examination is a mild to moderate degeneration of the seminiferous tubules in a dose of 1000 mg / kg / day and uterine possible effects at the same dose. The NOAEL for a study of dermal toxicity to 90 days (5 days / week) rat was equal to 100 mg / kg / day on the basis of decreases in body weight of 1000 mg / kg / day. On the basis of chronic dermatitis, Loael for skin effects harmful in this study was equal to 10 mg / kg / day. No evidence of neurotoxicity was observed in a study conducted BPL for 90 days on mice according to OECD n. 411 up to a level of high dose of 1000 mg / kg / day with a battery of tests of functional assessment, evaluation of motor and neuro-histopathology.
neodecanoate of 2,3-epoxypropyl	Repeated dose toxicity (oral): Wistar rats males and females were exposed to a high dose of 10,000 ppm of 2,3-epoxypropyl neodecanoate in the food for a period of five weeks. Several apparent side effects, including: reductions in body weight gain, reduced food consumption, increase the relative weight of the liver and kidneys, alterations in clinical chemistry parameters, reduction in hemoglobin and hematocrit (only for males) and renal histopathology occurred in 5000 and 10,000 ppm. However, due to problems of palatability of the test substance, the NOAEL

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	for this study based on expert judgment is 5000 ppm of 2,3-epoxypropyl neodecanoate in food. Adverse events in the kidneys observed in male rats in this study are not relevant to human health.
Nonylphenyl ether of polyethylene glycol	No test data available and relevant.

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 make up the product.

SECTION 12: Ecological Information

12.1 Toxicity

In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated based on the properties of substances, according to the criteria laid down by the relevant regulations for the classification. Consider, therefore, the concentration of each substance dangerous possibly mentioned in sect. 3, to assess the toxicological effects resulting from exposure to the product.

Substance	Specification	Species	Value	Duration of test
Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight \leq 700)	LC50	Fish	1.3 mg/l.	96 h
	EC50	Daphnia	2.1 mg/l	48 h
	NOEC	Daphnia	0.3 mg/l	21 days
	LC50	Algae	>11 mg/l	72 ore
	EC 50	Sewage sludge	> 100 mg/l	72 ore
neodecanoate of 2,3-epoxypropyl	LC 50	Oncorhynchus mykiss (trout iridea)	9,6 mg/l	96 h
	EC 50	Daphnia magna	10 mg/l	24 h
	EC 50	Daphnia magna	4.8 mg/l	48 h
	EC 50	Algae	3,5 mg/l	96 h
Nonylphenyl ether of polyethylene glycol	CL50	Rainbow Trout	4.7 mg/l	96 h

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General Effect

Data not available.

12.2 Persistence and degradability

Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight \leq 700):

Not readily biodegradable.

Disposal considerations: Data not available.

Do not pour the product in the pipeline and water course, if the product has escaped into a water

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course, into the drainage system or has contaminated the ground or vegetation, notify the competent authorities.

12.3 Potential for bioaccumulation

Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight \leq 700): low potential for bioaccumulation in aquatic organisms.

neodecanoate of 2,3-epoxypropyl

low potential for bioaccumulation in water and soil.

12.4 Mobility in soil

Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight \leq 700): limited mobility in soil.

If the product enters soil, one or more of its components are mobile and can contaminate the ground water system.

Assessment transport between environmental compartments: No data available.

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.

12.6 Other adverse effects

No data available.

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12.7 Additional information

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

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 make up the product.

13. SECTION: Disposal consideration

13.1 Waste treatment methods

For disposal, remove the product in a suitable incineration plant, in accordance with regulations at the local, national and EU level. The preparation is not suitable for disposal in water disposal public, canals, natural waterways or rivers.

The package used is intended exclusively for the packaging of this product, it must not be reused for other purposes. All containers, even when completely empty, must not be disposed of properly and must undergo a proper decontamination treatment before starting their disposal. If they contain residues must be classified, stored and sent to a suitable treatment facility in accordance with applicable local, national and Community.

14. SECTION: Transport information

The product is classified as hazardous for transport (ADR for road, RID for rail, sea transport ADN internal IMDG / GGVSea by sea, IATA / ICAO aviation), but part of the "regime of limited quantities" which exempts 1.1.3.4. ADR, which contains special provisions or dangerous goods packed in limited quantities.

The limit for the inner packaging of the product, with reference to UN No. 3082 is 5 l. The goods are packed in inner packaging placed in an outer packaging, such as provisions on exemption.

14.1 Number ONU

3082

14.2 Proper Shipping Name for ONU

ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, NOS (Epichlorohydrin epoxy resin (number average molecular weight ≤ 700), the polyethylene glycol ether Nonylphenyl)

14.3 Hazard class for transport

class 9

14.4 Packing Group

III

14.5 Environmental hazards

Product dangerous for the environment according to the criteria of the UN Model Regulations and a marine pollutant according to the IMDG Code.

14.6 Special precautions for users

No data available.

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

Not applicable.

Transportation classifications may vary according to the different national law.

15. SECTION Regulatory information

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

Community regulations: Seveso Directive 96/82 / EC;
Directive 67/548 / EEC and subsequent amendments (classification, packaging and labelling of dangerous substances)
Regulation EC / 1907/2006 and subsequent amendments
(Registration, Evaluation, Authorization, and Restriction of Chemicals)

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REACH) Relation CE/1272/2008 (classification, Labelling and Packaging of substances and mixtures)

National regulation: 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)

15.2 Chemical Safety Assessment (CSA)

Not required. Exempt from REACH registration.

SECTION 16: Other Information

Full text of abbreviated H statements

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H 318 Causes serious eye damage
- H 319 Causes serious eye irritation
- H 317 May cause an allergic skin reaction
- H 341 Suspected of causing genetic defects
- H 411 Toxic to aquatic life with long lasting effects

Full text of precautionary statements P

- P280 Wear protective gloves / protective clothing, eye protection, face protection.
- P305 + P351 + P338 IF IN EYES: Rinse thoroughly for several minutes. Remove contact lenses if easy to do. Continue rinsing.
- P310 Immediately call a doctor.
- P405 Store locked up.
- P501 Dispose of container in accordance with national regulations and international.

Classification and procedure used to derive under Regulation (CE) 1272/2008 [CLP] in relation to the mixtures:

Classification in accordance with Regulation (EC) No. 1272/2008	Classification procedure
Acute Tox. 4 H 302 Skin Corr./Irrit. 2 H 315 Eye Dam. 1 H 318 Eye Dam./Irrit. 2 H 319 Skin Sens. 1 H 317	Minimum classification

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Muta. 2	H 341	
Aquatic Chronic 2	H 411	

Abbreviations and acronyms:

EC ₅₀ :	median effective concentration.
LC ₅₀ :	median lethal concentration.
LD ₅₀ :	median lethal dose.
NOEC:	no observable effect concentration.
PNEC:	predicted no-effect concentration.
OEL:	occupational exposure limit.
PBT:	persistent, bio accumulative, toxic chemical.
vPvB:	very persistent, very bio accumulative chemical.
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.

Key literature references and sources of data

The Merck Index Ed. 10;
 Handling Chemical Safety;
 Anonym, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0 [document SCF].
 Anonym, 2007: HERAG fact sheet - assessment of occupational dermal exposure and dermal absorption for metals and inorganic metal compounds; EBRC Consulting GmbH, Hannover, Germania; August 2007.
 Anonym, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)₂), Directorate General for Employment, Social Affairs and Equal Opportunities of the European Commission, 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)
 CIRC (Centre International de Recherche sur le Cancer).
 HSDB (Hazardous Substances Data Bank) (National Library of Medicine).
 INRS (Institut National de Recherche et de Sécurité).
 IUCLID (International Uniform Chemical Information data Base).
 RTECS (Registry of Toxic effects of Chemical Substances).
 NIOSH – Registry of toxic effects of chemical substances (1983).

TECHNICAL DEPARTMENT

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

National Institute of Health - National inventory chemicals.

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

ACGIH – Treashold limit values (2000).

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

Release:

This safety data sheet (SDS) is based on the legal provisions contained in the REACH Regulation (EC / 1907/2006), as amended and supplemented. The information contained herein is based on information in the MSDS of the raw materials that make up the product and our knowledge of the date indicated. They refer solely to the product indicated and constitutes no guarantee of particular quality.

Is not, no representation or warranty as to the accuracy, reliability and completeness of the data contained in this MSDS. The company assumes no liability for damage to persons or property that may result from use of the product other than that for which it was intended. The SDS does not replace but complements the lyrics or the rules governing the activities of the use. The user has full responsibility for the precautions that are necessary for the use you make of the preparation. This MSDS cancels and replaces any preceding release.

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

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This SDS is available in electronic form on the: www.diasen.com.

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

Last version 0005 of 4 May 2015.

SECTION 1: Identification of the substance or mixture and company

1.1 Product identification

Denomination: **WATstop BLACK COLOR (part B)**
N° of registration Reach: free.

1.2 Relevant identified uses of product and recommended uses

Three-component epoxy resin to waterproof both with negative and positive pressure, to be used as osmotic over underground walls, to encapsulate rising dampness and to achieve a vapor barrier on wet supports.

1.3 Details of the supplier of the safety data sheet

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

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1.4 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.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Eye Irrit. 2	H 319
Skin Sens. 1	H 317
Skin Irrit. 2	H 315
Dermal Acute Tox. 4	H 312
Oral Acute Tox. 4	H 302
Aquatic Chronic 3	H 412

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2.2 Label elements

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

Hazard pictograms



GHS07

Warning:
Attention.

Hazard statements:

H 319

H 317

H 315

H 312

H 302

H 412

Precautionary statements :

P 264

P 337 + P 313

P 280

P 501

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Additional information about the dangers (EU):

Contains: Fatty acids, C18-unsatd., Dimers, oligomeric reaction products with theta;
Fatty acids, C18-unsatd., Dimers, oligomeric reaction tofa theta-tepa;
N, N-dimethyl-1,3-diaminopropane.

2.3 Other hazards

Data not available.

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

SECTION 3: SECTION 3: Composition/information on ingredients
3.1 Substance

No pertinent. The product is a mixture.

3.2 Mixture
Hazardous Substance:

Registration number	CAS number	EC number	% [weight]	Name	Classification according to Regulation (EC) n.1272/2008 (CLP)	
					Hazard Class and Category Code	Hazard Statements (H Phrases)
	68082-29-1	500-191-5	15-25	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with teta	Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 3	H 319 H 315 H 317 H 412
	68155-17-9	268-945-3	5 -15	Fatty acids, tall-oil, reaction products with tepa	Eye Irrit.2	H 319
	68071-65-8	500-187-3	5 -15	Fatty acids, C18-unsatd., dimers, oligomeric reaction tofa teta-tepa	Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1	H 319 H 315 H 317
01-211948684 2-27	109-55-7	203-680-9	0.5-2.5	N,N-dimethyl-1,3-diaminopropane	Flam. Liq. 3 Dermal Acute Tox. 4 Oral Acute Tox. 4 Skin Sens. 1	H 226 H 312 H 302 H 317

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More information:

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

Impurity:

It does not contain impurities relevant for classification and labelling.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation

Ventilate the premises. Remove the patient from the contaminated premises to rest in the open air. If you feel unwell seek medical advice, showing this safety data sheet.

In case of contact with skin

Remove all traces of product and rinse with plenty of water the contaminated body surfaces. Remove contaminated clothing. If necessary seek medical advice, showing this safety data sheet. 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. In case of presence of contact lenses, remove them. If irritation persists, seek medical advice, showing this safety data sheet.

If swallowed

Do not induce vomiting. Never give anything by mouth to an unconscious person. Move exposed person to fresh air. Call a doctor immediately, showing this safety data sheet.

4.2 Most important symptoms and effects, both acute and delayed

No symptoms are observed both acute and delayed.

4.3 Indication of any immediate medical attention or special treatment

No specific treatment. Not to be no action taken involving any personal risk or without suitable training.

SECTION 5: Fire-fighting measures

5.1 Extinguishing

Extinguishing agents: water, CO₂. Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing agents: no one in particular.

5.2 Special hazards arising from the substance

Dangers of the substance or mixture: Do not inhale combustion gases. Burning produces heavy smoke.

TECHNICAL DEPARTMENT

5.3 Advice for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of a fire. Not to be no action taken involving any personal risk or without suitable training. Fire-fighters must use a self-contained and full protective clothing. Use the means of extinction appropriate to local circumstances and particular environment. Fire water contaminated with this material must be contained and must prevent access to any waterway, sewer or drain.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

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

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

Avoid inhalation of vapours and mists - sufficient ventilation or wear protective equipment, wear suitable protective clothing (v. section 8).

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 (v. section 8).

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

6.2 Environmental

Contain the spillage. Avoid that the product reaches uncontrollably 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 materials for containment and cleaning up

Small quantities: collect spillage with absorbent material (sand, sawdust, universal absorbent, diatomaceous earth), pour in suitable containers and labelled with lids and dispose of according to local, national and EU regulations. Treat the washing water the same way as contaminated waste. If the spill happened indoors ventilate the room.

Big quantity: 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. Unless otherwise specified, treated as small quantities. If the spill occurred in an enclosed air the room.

6.4 Reference to other sections

For more detailed information on exposure controls / personal protection or disposal measures, see sections 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Protection measure

Avoid contact with skin, eyes and mucous membranes. Wear protective equipment for hands, eyes and skin (v. Section 8). Provide adequate ventilation. In case of insufficient ventilation, wear respiratory protection. Do not breathe vapours, aerosols or gases. Do not eat, drink and smoke in work areas. Wash hands after use and remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.1.2. Recommendations on general occupational hygiene

Avoid inhalation, ingestion and contact with skin and eyes. Wash hands after any handling. You must apply measures general hygienic measures to ensure the 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

The product should be stored in closed containers in ventilated places, well protected from the sun, water, freezing conditions at temperatures between + 5 ° C and + 35 ° C. Do not store near sources of ignition, open flames or excessive heat. Avoid store together with non-compatible materials that may give decomposition after contamination with the product.

Recommendations: Use original container.

7.3 Specific end use

Not applicable.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure Limit Values:

DNEL			
Component denomination	Exposition / effects	DNEL	Population
tetraethylenepentamine	In the short term Dermal / Systemic	10 mg/kg	consumer
	Long term Dermal / Systemic	0.74 mg/kg	worker
	Long term Dermal / Systemic	0.32 mg/kg	consumer
	Long term Oral/ Systemic	0.53 mg/kg	consumer
	Long term Inhalation / Systemic	0.00129 mg/l	worker
	Long term Inhalation / Systemic	0.00038 mg/l	consumer
triethylenetetramine	Long term Dermal / Systemic	0.57 mg/kg	worker

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	Long term Dermal / Systemic	0.25 mg/kg	consumer
	Long term Inhalation / Systemic	0.001 mg/l	worker
	Long term Inhalation / Systemic	0.00029 mg/l	consumer
	In the short term Dermal / Systemic	8 mg/kg	consumer
	Long term Oral/ Systemic	0.41 mg/kg	consumer

Ingredient name	Compartment Detail	PNEC
tetraethylenepentamine	freshwater	0.00068 mg/l
	Sea water	0.00068 mg/l
	Sediment freshwater	3.34 mg/kg
	Sediment seawater	0.343 mg/kg
	Ground	0.683 mg/kg
triethylenetetramine	freshwater	0.19 mg/l
	Sea water	0.038 mg/l
	Sediment freshwater	95.5 mg/kg
	Sediment seawater	19.2 mg/kg
	Ground	19.1 mg/kg

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

8.2 Exposure controls

To limit potential exposure, prevent the generation of vapour or aerosol. In addition, it is recommended to wear protective equipment. Wear protection devices for the eyes 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 fumes, use local exhaust ventilation or other technical means to keep exposure below recommended exposure limits.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye / face

Do not use contact lenses. Use tight-fitting goggles or mask type conform to EN 166.

Use an eye protection compatible with the system used for the protection of the respiratory tract. It is also recommended that you bring the individual pocket eyewash.

8.2.2.2 Skin protection

Wear suitable protective gloves (PVC gloves, neoprene or rubber), in accordance with UNI EN 374 parts 1 and 2. It should be borne in mind that, because of several factors (for example temperature),

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the duration of a glove for protection against chemical agents may be considerably lower than the permeation time detected by the test. Change protective gloves used in the presence of signs of wear or contamination.

Wear protective standards that cover the entire surface of the skin, long pants, long-sleeved suit, adhering to the end and safety boots resistant to chemical attack without holes for the laces.

8.2.2.3 Respiratory protection

Not necessary for normal use. If it exceeds the occupational exposure limit wear a device for respiratory protection meeting the requirements of European or national legislation.

8.2.2.4 Thermal risks

No risk.

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.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical

Appearance:	Liquid
Colour:	amber
Smell:	ammonia
Odour threshold:	Not determined.
Specific weight:	0.92 kg / l.
Melting point / freezing point:	not determined
Initial boiling point and boiling range:	> 124 ° C
Flash point:	82 ° C
Evaporation rate:	not determined
Flammability:	not determined
Upper / lower flammability or explosive limits:	not determined
Vapour pressure:	not determined
Vapour density:	not determined
Relative density:	0.97 / cm ³
Solubility:	Soluble in water
Coefficient of n-octanol / water:	not determined
Ignition temperature:	not applicable
Decomposition temperature:	not applicable
Viscosity:	not determined
Explosive properties:	not determined
Oxidizing properties:	not determined

Note: the above values related to physicochemical properties are typical values for this product and should not, therefore, be construed as a specification.

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9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

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

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

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), agents strong reducing.

It may generate toxic gases on contact with oxidising mineral acids, strong oxidizing agents.

It can catch fire on contact with powerful oxidising agents.

10.4 Conditions to avoid

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

10.5 Incompatible materials

None in particular.

10.6 Hazardous decomposition products

It does not generate decomposition products in normal conditions of storage and use.

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SECTION 11: Identification of the substance or mixture and company

11.1 Information toxicity effects

In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated based on the properties of substances, according to the criteria laid down by the relevant regulations for the classification. Consider, therefore, the concentration of each substance dangerous possibly mentioned in sect. 3, to assess the toxicological effects resulting from exposure to the product.

Toxicological information of the mixture: No data available.

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Toxicological information of the main substances in the mixture:

Acute toxicity

Substance	Specification	assumption	Species	Value
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with teta	LD50	Oral		> 1600 mg/kg
Fatty acids, C18-unsatd., dimers, oligomeric reaction tofa teta-tepa	LD50	Oral	Rat	> 2000 mg/kg
N,N-dimethyl-1,3-diaminopropane - CAS: 109-55-7	LD50	Oral	Rat	922 mg/kg
	LD50	Inhalation	Rat (4h)	> 4.31 mg/l

Corrosion / irritation

Substance	Results
Fatty acids, C18-unsatd., dimers, oligomeric reaction tofa teta-tepa	Skin irritation.

Eye irritation or serious eye damage

Substance	Results
Fatty acids, C18-unsatd., dimers, oligomeric reaction tofa teta-tepa	Corrosive to eyes.

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Respiratory Sensitization

Substance	Results
Fatty acids, C18-unsatd., dimers, oligomeric reaction tofa teta-tepa	Irritating to respiratory system.

Unless otherwise specified, the other information required in Regulation 453/2010 / EC are to be understood as not applicable.

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 make up the product.

12. SECTION: Ecological Information

12.1 Toxicity

In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated based on the properties of substances, according to the criteria laid down by the relevant regulations for the classification. Consider, therefore, the concentration of each substance dangerous possibly mentioned in section 3, to assess the toxicological effects resulting from exposure to the product.

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Substance	Specification	assumption	Species	Value
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with teta	LC50	Fish	1-10 mg/l	96 h
	LC50	microorganisms	120 mg/l	
N,N-dimethyl-1,3-diaminopropane	LC 50	Fish	122 mg/l	
	EC 50	Daphnia	59.5 mg/l	48 h
	EC 50	Algae	53.5 mg/l	72 h
	EC 10	bacteria (Pseudomonas putrid)	69.5 mg/l	17 h

General effect

Data not available.

12.2 Persistence and degradability

The product is not readily degradable.

Disposal considerations: Data not available.

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 Potential for bioaccumulation

The product is not bioaccumulative.

12.4 Mobility in soil

The product is not mobile in soil.

Assessment transport between environmental compartments: No data available.

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.

12.6 Other adverse effects

No data available.

12.7 Additional information

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

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 make up the product.

13. SECTION: Disposal consideration

13.1 Waste treatment methods

Recover if possible. Dispose of in accordance with local and national regulations.

Packaging: The packaging used is intended for the packaging of this product, it should not be reused for other purposes. All containers, even when completely empty, must not be disposed of properly and must undergo a proper decontamination treatment before starting their disposal. If they contain residues must be classified, stored and sent to a suitable treatment facility in accordance with applicable local, national and Community.

SECTION 14: Transport information

The product is classified as non-hazardous for transport (ADR for road, RID for railway, ADN for internal naval transport, IMDG / GGVSea for sea and ICAO / AITA air transport).

14.1 ONU number

Not regulated.

Proper Shipping Name 14.2 for UN

Not regulated.

14.3 Hazard class for transport

Classification product as non-hazardous for transport.

14.4 Packing Group

Not regulated.

14.5 Environmental hazards

Classification product as non-hazardous for transport.

14.6 Special precautions for users

No data available.

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

Not applicable.

Transportation classifications may vary according to the different national laws.

SECTION 15: Regulatory information

15.1 Regulations / legislation on safety, health and environment specific to the product

Community regulations	Directive 67/548 / EEC and subsequent amendments (classification, packaging and labelling of dangerous substances) Regulation EC / 1907/2006 and subsequent amendments (Registration, Evaluation, Authorization, and Restriction of Chemicals REACH) Regulation EC / 1272/2008 (classification, labelling and packaging of substances and mixtures)
National regulation:	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)

15.2 Chemical Safety Assessment (CSA)

Not required. Exempt from REACH registration

SECTION 16: Other information

Full text of abbreviated H statements

H315	Causes skin irritation
H319	Causes serious eye irritation
H 317	May cause an allergic skin reaction
H 312	Harmful in contact with skin
H 302	Harmful if swallowed.
H 412	Harmful to aquatic life with long lasting effects

Classification and procedure used to derive under Regulation (IS) 1272/2008 [CLP] in relation to the mixtures:

Classification in accordance with Regulation (CE) n. 1272/2008	Classification procedure
Eye Irrit. 2 H 319 Skin Sens. 1 H 317 Skin Irrit. 2 H 315 Dermal Acute Tox. 4 H 312 Oral Acute Tox. 4 H 302 Aquatic Chronic 3 H 412	Minimum classification.

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Abbreviations and acronyms

EC ₅₀ :	median effective concentration.
LC ₅₀ :	median lethal concentration.
LD ₅₀ :	median lethal dose.
NOEC:	no observable effect concentration.
PNEC:	predicted no-effect concentration.
OEL:	occupational exposure limit.
PBT:	persistent, bio accumulative, toxic chemical.
vPvB:	very persistent, very bioaccumulative chemical.
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.

Key literature references and sources of data

The Merck Index Ed. 10;

Handling Chemical Safety;

Anonym, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0 [document SCF].

Anonym, 2007: HERAG fact sheet - assessment of occupational dermal exposure and dermal absorption for metals and inorganic metal compounds; EBRC Consulting GmbH, Hannover, Germania; august 2007.

Anonym, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)₂), Directorate General for Employment, Social Affairs and Equal Opportunities of the European Commission, 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)

CIRC (Centre International de Recherche sur le Cancer)

HSDB (Hazardous Substances Data Bank) (National Library of Medicine).

INRS (Institut National de Recherche et de Sécurité).

IUCLID (International Uniform Chemical Information data Base).

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 inventory chemicals.

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

ACGIH – Treashold limit values (2000).

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

Release: This safety data sheet (SDS) is based on the legal provisions contained in the REACH Regulation (EC / 1907/2006), as amended and supplemented. The information contained herein is based on information in the MSDS of the raw materials that make up the product and our knowledge of the date indicated. They refer solely to the product indicated and constitutes no guarantee of particular quality.

Is not, no representation or warranty as to the accuracy, reliability and completeness of the data contained in this MSDS. The company assumes no liability for damage to persons or property that may result from use of the product other than that for which it was intended. The SDS does not replace but complements the lyrics or the rules governing the activities of the use. The user has full responsibility for the precautions that are necessary for the use you make of the preparation. This MSDS cancels and replaces any preceding release.

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

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This SDS is available in electronic form on the: www.diasen.com.

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

Last version 0005 of 4 May 2015.

Denomination: **WATstop BLACK COLOR (part C)**
N° of registration Reach: free.

1.3 Relevant identified uses of product and recommended uses

Three-component epoxy resin to waterproof both with negative and positive pressure, to be used as osmotic over underground walls, to encapsulate rising dampness and to achieve a vapor barrier on wet supports.

1.3 Details of the supplier of the safety data sheet

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

1.5 Emergency telephone number

Emergency telephone number of the company and / or official advisory body:
Diasen s.r.l. Tel. 0732/9718

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Available outside working hours? No.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

This product does not meet the criteria for classification in any hazard class in accordance with Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms: None.

Warning: no.

Hazard: None.

Safety advice: none.

Additional information about the dangers (EU): none.

The product declared by the supplier does not require the addition of the reducing agent of chromium (VI), as the concentration is less than 0.0002% (2 ppm) on the total dry weight of the

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same. The statement is supported by tests carried out in the laboratories of the supplier and certified on the contents of chromium (VI), constantly updated by an independent.

2.3 Other hazards

Data not available.

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

SECTION 3: Composition / information on ingredients

3.1 Substances

Not applicable. The product is a mixture.

3.2 Mixture

No dangerous substances:

Number of registration (CE)	Number CAS	Number CE	% [weight]	Name	Classification according to Regulation (CE) n.1272/2008 (CLP)	
					Hazard Class and Category Code	Hazard Class and Category Code
	65997-16-2	266-045-5	90-100	Cement, alumina, chemicals	None	none

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Hazardous substances:

It does not contain soluble chromium VI (in excess of 2 ppm) or crystalline silicon. This product contains no dangerous components.

Additional information: None.

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

Impurities:

It does not contain impurities relevant for classification and labelling.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation

Ventilate the area. Remove the patient from the contaminated premises to rest in the open air. If you feel unwell seek medical advice, showing this safety data sheet.

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In case of contact with skin

Remove all traces of the product with water and soap and rinse the contaminated body surfaces.
Remove contaminated clothing.

In case of contact with eyes

Rinse immediately with plenty of running water, with eyelids open. In case of presence of contact lenses, remove them. If irritation persists, seek medical advice, showing this safety data sheet.

If swallowed

Do not induce vomiting. Rinse mouth and drink 2-3 glasses of water. Move exposed person to fresh air. Call a doctor immediately, showing this safety data sheet.

4.2 Most important symptoms and effects, both acute and delayed

No symptoms are observed both acute and delayed.

4.3 Indication of any immediate medical attention or special treatment

No specific treatment. Not to be no action taken involving any personal risk or without suitable training.

SECTION 5: Fire-fighting measures

5.1 Extinguishing

Suitable extinguishing media: no one in particular. Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing agents: no one in particular.

5.2 Special hazards arising from the substance

Dangers of the substance or mixture: Do not inhale combustion gases.

5.3 Advice for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of a fire. Not to be no action taken involving any personal risk or without suitable training. Fire-fighters must use a self-contained and full protective clothing. Use the means of extinction appropriate to local circumstances and particular environment. Fire water contaminated with this material must be contained and must prevent access to any waterway, sewer or drain.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Remove those who do not have appropriate protection and ensure adequate ventilation.
Avoid contact with skin, eyes and clothing - wear the appropriate personal protective equipment (section 8).

Avoid inhalation of dust or aerosols - sufficient ventilation or wear protective equipment, wear suitable protective clothing (section 8).

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 (section 8).

Avoid inhalation of dust or aerosols - wear protective mask / protective device appropriate (section 8).

6.2 Environmental

Contain the spillage. Avoid that the product reaches uncontrollably 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 materials for containment and cleaning up

Small quantities: collect spillage with vacuum dry and place in appropriate containers and labelled with lids and dispose of according to local, national and EU regulations. Treat the washing water the same way as contaminated waste. If the spill happened indoors ventilate the room. Not disperse dust into the environment.

Big quantities: 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. Unless otherwise specified, treated as small quantities. If the spill occurred in an enclosed air the room. Not disperse dust into the environment.

6.4 Reference to other sections

For more detailed information on exposure controls / personal protection or disposal measures, see sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Protective Measures

Avoid contact with skin, eyes and mucous membranes. Wear protective equipment for hands, eyes and skin (v.section 8). Provide adequate ventilation. In case of insufficient ventilation, wear

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respiratory protection. Do not breathe dust or aerosols. Do not eat, drink and smoke in work areas. Wash hands after use and remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.1.2. Recommendations on general occupational hygiene

Avoid inhalation, ingestion and contact with skin and eyes. Wash hands after any handling. You must apply measures general hygienic measures to ensure the 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

The product should be stored in closed containers in ventilated places, well protected from the sun, water, freezing conditions at temperatures between + 5 ° C and + 35 ° C.

Do not store near sources of ignition, open flames or excessive heat. Avoid store together with non-compatible materials that may give decomposition after contamination with dust.

Recommendations: Use original container.

7.3 Specific end use

Not applicable.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

No data available.

8.2 Exposure controls

In order to minimize the potential exposure, avoid the generation of dust.

In addition, it is recommended to wear protective equipment.

Wear protection devices for the eyes 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 dust, use local exhaust ventilation or other technical means.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye / face

Do not use contact lenses.

Use protective goggles dust conform to EN 166.

Use an eye protection compatible with the system used for the protection of the respiratory tract. It is also recommended that you bring the individual pocket eyewash.

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8.2.2.2 Skin protection

Wear suitable protective gloves, conforming to UNI EN 374 parts 1 and 2.

It should be borne in mind that, because of several factors (for example temperature), the duration of a glove for protection against chemical agents may be considerably lower than the permeation time detected by the test. Change protective gloves used in the presence of signs of wear or contamination.

Wear protective standards that cover the entire surface of the skin, long pants, long-sleeved suit, adhering to the end and safety boots resistant to chemical attack without holes for the laces.

8.2.2.3 Respiratory protection

Not necessary for normal use. If excessive dust wear a device for respiratory protection meeting the requirements of European or national legislation.

8.2.2.4 Thermal hazards

Nobody.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical

Appearance:	powder
Colour:	gray - brown
Odour:	none
Odour Threshold:	no
Specific weight:	1.5 kg / l
Melting point:	> 1200 ° C
Initial boiling point and boiling range:	not applicable
Flash point:	not applicable
Evaporation rate:	not determined
Flammability:	not determined
Upper / lower flammability or explosive limits:	not determined
Vapour pressure:	not determined
Vapour density:	not determined
Solubility:	Soluble in water
Coefficient of n-octanol / water:	not determined
Ignition temperature:	not applicable
Decomposition temperature:	not applicable
Viscosity:	not applicable
Explosive properties:	not applicable
Oxidising properties:	not applicable

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Note: the above values related to physicochemical properties are typical values for this product and should not, therefore, be construed as a specification.

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

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

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

In contact with water, it produces alkaline substances.

10.4 Conditions to avoid

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

10.5 Incompatible materials

None in particular.

10.6 Hazardous decomposition products

It does not generate decomposition products in normal conditions of storage and use.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological information of the product:

Health effects: prolonged exposure can aggravate pre-existing conditions (skin, lung, eye and respiratory tract).

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 make up the product.

SECTION 12: Ecological information

12.1 Toxicity

No known ecological damage caused by this product.

12.2 Persistence and degradability

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.

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12.3 Potential for bioaccumulation

No data available.

12.4 Mobility in soil

No data available.

Assessment transport between environmental compartments: No data available.

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.

12.6 Other adverse effects

No data available.

12.7 Additional information

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

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 make up the product.

SECTION 13: Disposal considerations

13.1 Methods of waste treatment

Recover if possible. Dispose of in accordance with local and national regulations.

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Packaging: The packaging used is intended for the packaging of this product, it should not be reused for other purposes. All containers, even when completely empty, must not be disposed of properly and must undergo a proper decontamination treatment before starting their disposal. If they contain residues must be classified, stored and sent to a suitable treatment facility in accordance with applicable local, national and Community.

SECTION 14: Transport information

The product is classified as non-hazardous for transport (ADR for road, RID for railway, ADN for internal naval transport, IMDG / GGVSea for sea and ICAO / AITA air transport).

14.1 ONU number

Not regulated.

14.2 Proper Shipping Name for ONU

Not regulated.

14.3 Hazard class for transport

Product classified as non-hazardous for transport.

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14.4 Packing Group

Not regulated.

14.5 Environmental hazards

Product classified as non-hazardous for transport.

14.6 Special precautions for users

No data available.

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

Not applicable.

Transportation classifications may vary according to the different national laws.

SECTION 15: Regulatory information

15.1 Regulations / legislation on safety, health and environment specific to the product

Community regulations: Directive 67/548 / EEC and subsequent amendments (classification, packaging and labelling of dangerous substances).
Regulation EC / 1907/2006 and subsequent amendments (Registration, Evaluation, Authorization, and Restriction of Chemicals REACH).
Regulation EC / 1272/2008 (classification, labelling and packaging of substances and mixtures).

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Nationals regulations: D.P.R. 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 / CEE of 21 December 1989 on the approximation of the laws of the Member States relating to personal protective equipment)
D.Lgs 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)

15.2 Chemical Safety Assessment (CSA)

Not required. Exempt from REACH registration.

SECTION 16: Other information

Full text of abbreviated H statements

No.

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Full text of the safety advice

None.

Classification and procedure used to derive under Regulation (IS) 1272/2008 [CLP] in relation to the mixtures

Classification in accordance with Regulation (CE) n. 1272/2008	Classification procedure
None.	Minimum classification.

Abbreviations and acronyms

EC ₅₀ :	median effective concentration.
LC ₅₀ :	median lethal concentration.
LD ₅₀ :	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.
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 sources of data

The Merck Index Ed. 10;
 Handling Chemical Safety;
 Anonym, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0 [document SCF].
 Anonym, 2007: HERAG fact sheet - assessment of occupational dermal exposure and dermal absorption for metals and inorganic metal compounds; EBRC Consulting GmbH, Hannover, Germania; august 2007.
 Anonym, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)₂), Directorate General for Employment, Social Affairs and Equal Opportunities of the European Commission, 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)
 CIRC (Centre International de Recherche sur le Cancer).

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HSDB (Hazardous Substances Data Bank) (National Library of Medicine).
INRS (Institut National de Recherche et de Sécurité).
IUCLID (International Uniform Chemical Information data Base).
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 inventory chemicals.
ECDIN – Environmental chemicals data and information network – Joint research centre, Commission of the European Communities.
ACGIH – Treashold limit values (2000).
SAX'S – Dangerous properties of industrial materials – tenth edition.

Release:

This safety data sheet (SDS) is based on the legal provisions contained in the REACH Regulation (EC / 1907/2006), as amended and supplemented. The information contained herein is based on information in the MSDS of the raw materials that make up the product and our knowledge of the date indicated. They refer solely to the product indicated and constitutes no guarantee of particular quality.

Is not, no representation or warranty as to the accuracy, reliability and completeness of the data contained in this MSDS. The company assumes no liability for damage to persons or property that may result from use of the product other than that for which it was intended. The SDS does not replace but complements the lyrics or the rules governing the activities of the use. The user has full responsibility for the precautions that are necessary for the use you make of the preparation. This MSDS cancels and replaces any preceding release.

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

This SDS is available in electronic form on the: www.diasen.com

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