

Bi-Component Epoxy Glue

DESCRIPTION

DRYpox is a solvent-free thixotropic epoxy resin. It consists of DRYpox A (Resin) and DRYpox B (Hardener).

- > Resin adhesive for DRYtape.
- > Solvent-free two-component system.
- > Can be applied horizontally, vertically and on the ceiling.

USAGES

DRYpox is used as an adhesive for the placement of the construction tape and / or DRYtape expansion.
DRYpox is chemically inert and stable and can be used on substrates in contact with wastewater and wastewater.

PREPARATION OF THE SUBSTRATE

The substrate must be solid and clean. The concrete surface must be free of cement laitance, voids, large cracks or roughness. At the time of installation, the substrate must not exceed 4% humidity. Any residual oil, grease, paint or latex must be removed from the support, as they reduce the adhesion of DRYtape to the support.

PREPARATION OF THE PRODUCT

DRYpox A three parts by weight: DRYpox B one part by weight (e.g. : 4.5 kg Resin: 1.5 kg Hardener).

The two components must be mixed first individually and then together.
DRYpox A Resin (white) is added to DRYpox B Catalyst (gray).
The components are carefully mixed with a mechanical mixer (max 400 rpm).
The adhesive is ready when the mixture takes on a uniform gray color, free of streaks.



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PLACEMENT

Apply DRYpox with a flat or notched trowel on the contact surfaces and level the product. For expansion joints, the expansion zone must be left without adhesive. Press DRYtape on DRYpox by exerting light pressure on the sides. Let out all the air left inside. After fixing DRYtape, cover the ends with the DRYpox epoxy adhesive and, if other overlays are required, the resin must be covered with quartz sand while it is still fresh.

CONSUMPTIONS

1.60-1.65 kg / m² per mm of thickness.
6 kg pack, consisting of: DRYpox A Resin = 4.5 kg
DRYpox B Catalyst = 1.5 kg

STORAGE

The components of DRYpox, if stored in their original packaging, in environments with temperatures between +5 ° C and +30 ° C, have a shelf life of 24 months.

HEALTH & SAFETY

DRYpox is Irritating and dangerous for the environment. Irritant for eyes and skin. It can cause long-term adverse effects in the aquatic environment and is toxic to aquatic organisms. Avoid contact with skin. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with the skin, wash immediately with plenty of water and soap. Wear suitable clothing, protective gloves and goggles for the eyes and face. In the event of an accident or if you feel unwell, consult a doctor immediately and show the product label. For further information please refer to the safety data sheet.

TECHNICAL DATA

OWNERSHIP OF THE INDIVIDUAL COMPONENTS	DRYPOX A	DRYPOX B
Consistency	Thick paste	Thick paste
Color	Grey	White
Density kg/l	ca. 1,70	ca. 1,65
DOUGH PROPERTIES	DRYPOX	
Consistency	Thixotropic paste	
Color	Grey	
Density	kg/l ca. 1,65	
Workability time	min. 45 (a +30 °C) min. 70 (a +23 °C) min. 150 (a +10 °C)	
laying temperature	5 °C - 30 °C	
FINAL PROPERTIES		
Adhesion to concrete	N/mm ² > 3	
Shear resistance	N/mm ² > 9	
Elastic module	N/mm ² 5.000	
Compressive strength	N/mm ² > 60	

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The above data was obtained under laboratory conditions. In practice, climatic variations such as temperature, humidity and porosity of the substrate can influence these values.

*Notes: the preparation of the support and the placement must be observed.
Consumption may vary according to the roughness of the surfaces.*

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 PRODUCT IDENTIFIER	Commercial Product Name:	DRYpox A
1.2 RELEVANT USES IDENTIFIED OF THE SUBSTANCE OR MIXTURE AND USES NOT RECOMMENDED	Recommended uses:	Epoxy adhesive
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET	Company:	Drytech International SA via Industrie 12 CH-6930 Bedano TI SVIZZERA
	T	+41 (0)91 960 23 49
	@	info@drytechinternational.com
1.4 EMERGENCY TELEPHONE NUMBER	Switzerland: 145 From abroad: +41 44 251 51 51	

2. HAZARDS IDENTIFICATION

2.1 SUBSTANCE OR MIXTURE CLASSIFICATION	Classification according to Regulation (EC) No. 1272/2008	Skin Irrit. 2, Causes skin irritation
		Eye Irrit. 2, Causes serious eye irritation
		Skin Sens. 1, It can cause an allergic reaction cutaneous
		Aquatic Chronic 2, Toxic to aquatic life with long lasting effects
	Physico-chemical effects harmful to human health and the environment:	No other danger

2.2. Label elements

Hazard pictogram



Signal word



Danger

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<i>Hazard statements:</i>	H315 Causes skin irritation H319 Causes serious eye irritation H317 May cause an allergic skin reaction H411 Toxic to aquatic life with long lasting effects.
<i>Precautionary advice:</i>	P273 Do not disperse in the environment P280 Wear protective gloves / clothing / eye protection / face P333+P313 If skin irritation or rash occurs: seek medical attention. P337+P313 If eye irritation persists: seek medical attention. P391 Collect spilled material. P501 Dispose of the product / container in accordance with the regulations.
<i>Special provisions:</i>	EUH205 Contains epoxy components. It can cause an allergic reaction.
<i>Contains:</i>	Oxirane, mono [(C12-14 -alkyloxy) methyl] derivatives Reaction product: bisphenol-A-epichlorohydrin; epoxy resins (number average molecular weight <= 700): may cause an allergic reaction. Bisphenol F - epoxy resin: may cause an allergic reaction.
<i>Special provisions based on Annex XVII of REACH and subsequent amendments:</i>	None.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

N.A.

3.2 MIXTURES

Hazardous components within the meaning of the CLP Regulation and related classification:

20% - <25% reaction product: bisphenol-A-epichlorohydrin.
Epoxy resins (average molecular weight <= 700).

REACH No.: 01-2119456619-26-xxxx,
Number Index: 603-074-00-8, CAS:
25068-38-6, EC: 500-033-5

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	<p>Eye Irrit. 2 H319 Skin Irrit. 2 H315 Skin Sens. 1, 1A, 1B H317 Aquatic Chronic 2 H411</p> <p>≥20% - <25% crystalline silica (Ø > 10 µ)</p>
CAS:	14808-60-7
EC:	238-878-4
<p>The product is not considered dangerous according to Regulation EC 1272/2008 (CLP).</p>	
	<p>≥5% - <10% oxirane, mono [(C12-14 - alkyloxy) methyl] derivatives</p>
REACH No.:	01-21194852289-22-xxxx, Number Index: 603-103-00-4, CAS: 68609-97-2, EC: 271-846-8
	<p>Skin Irrit. 2 H315 Skin Sens. 1A H317</p>
	<p>≥2.5% - <5.0% bisphenol F - epoxy resin</p>
REACH No:	01-2119454392-40-0006, CAS: 28064-14-4, EC: 500-006-8 Skin Irrit. 2 H315 Skin Sens. 1, 1A, 1B H317 Aquatic Chronic 2 H411
	<p>≥0.1% - <0.25% crystalline silica (Ø <10 µ) (*) CAS:14808-60-7, EC: 238-878-4 STOT RE 1 H372</p>

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	Inhalation:	Take the injured person to fresh air and keep him warm and at rest.
	Skin contact:	Immediately take off contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly soap. Wash the body completely (shower or bath). Remove contaminated clothing immediately and dispose of safely. In case of contact with the skin, wash immediately with plenty of water and soap.

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	<i>Eye contact:</i>	In case of contact with the eyes, rinse them with water for an adequate amount of time and keeping the eyelids open, then immediately consult an ophthalmologist. Protect the uninjured eye. Immediately flush with toilet for at least 10 minutes.
	<i>Ingestion:</i>	Never induce vomiting. SEEK MEDICAL EXAMINATION IMMEDIATELY. Activated charcoal suspended in toilet water or medicinal mineral vaseline oil can be administered.
4.2. MAIN SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED		If brought into contact with the eyes, the product causes irritation that can last for more than 24 hours, and if brought into contact with the skin it causes considerable inflammation, erythema, scabs or edema. If brought into contact with the skin, the product may cause skin Sensitization. The product contains low molecular weight epoxy resins, which can cause cross sensitization with other epoxy compounds. Also avoid breathing vapors.
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	<i>Immediate medical attention:</i>	In the event of an accident or discomfort, consult a doctor immediately (if possible show the instructions for use or the safety data sheet). Treatment: (see point 4.1).
5. FIREFIGHTING MEASURES		
5.1 EXTINGUISHING MEDIA	<i>Suitable extinguishing media</i>	Water, CO ₂ , powder fire extinguisher.
	<i>Inadequate extinguishing media:</i>	No one in particular.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE		Do not inhale the gases produced by the explosion and combustion. Burning produces heavy smoke. The fumes released during a fire may contain ingredients as they are or unidentified toxic and / or irritating compounds.
5.3 ADVICE FOR FIREFIGHTERS		Use suitable respiratory equipment. Collect contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system. If feasible from a safety point of view, move undamaged containers from the area of immediate danger.

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6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	<i>Personal precautions:</i>	Wear personal protective equipment. Move people to a safe place. Consult the protective measures set out in points 7 and 8.
6.2 ENVIRONMENTAL PRECAUTIONS	<i>Environmental Precautions:</i>	Contain the spillage with earth or sand. Prevent penetration into the soil / subsoil. Prevent run-off into surface water or the sewer system. In the event of a gas leak or penetration into water courses, soil or the sewer system, inform the responsible authorities.
6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP		Quickly collect the product wearing protective clothing. Material suitable for collection: absorbent, organic, sand. Wash with plenty of water. Retain contaminated washing water and dispose of it.
6.4. REFERENCE TO OTHER SECTIONS		See also paragraphs 8 and 13

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING	<i>Advice on safe handling:</i>	Avoid contact with the skin and eyes, the inhalation of vapors and mists. Do not use empty containers before they have been cleaned. Before transferring operations, make sure that there are no incompatible residual materials in the containers. Contaminated clothing must be replaced before entering the dining areas. At work do not eat or drink. See also paragraph 8 for recommended protective devices.
7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES		<i>Always keep containers tightly closed. Keep away from food, drink and feed. Incompatible matters: No one in particular. Indication for the premises: Adequately ventilated premises.</i>
7.3. SPECIFIC END USES		No particular use

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8. EXPOSURE CONTROLS/
PERSONAL
PROTECTION

8.1 CONTROL PARAMETERS Crystalline silica ($\text{Ø} > 10 \mu$) - CAS: 14808-60-7 ACGIH - LTE $\text{mg/m}^3(8\text{h})$: 0,025 mg/m^3 – Note: A2 (R) - Pulm fibrosis, lung cancer

Crystalline silica ($\text{Ø} > 10 \mu$) - CAS: 14808-60-7 ACGIH - LTE $\text{mg/m}^3(8\text{h})$: 0,025 mg/m^3 – Note: A2 (R) - Pulm fibrosis, lung cancer

UE – LTE $\text{mg/m}^3(8\text{h})$: 0,025 mg/m^3 – Note: A2 (R) - Pulm fibrosis, lung cancer

DNEL exposure limit values

Reaction product: BISPHENOL-A-EPICHLOROHYDRIN

Epoxy resins: Average molecular weight ≤ 700

CAS: 25068-38-6

Value	Target group	Exposure via	Exposure frequency
8.3 mg/kg	Workers	Skin	Short-term, systemic effects
12.25 mg/m^3	Workers	Inhalation	Short-term, systemic effects
8.3 mg/kg	Workers	Skin	Long-term systemic effects
12.25 mg/m^3	Workers	Inhalation	Long-term systemic effects
3.571 mg/kg	Consumers	Skin	Long-term effects, systemic effects
0.75 mg/m^3	Consumers	Oral	Long-term effects, systemic effects
3.571 mg/kg	Consumers	Skin	Long-term effects, systemic effects
0.75 mg/m^3	Consumers	Oral	Long-term effects, systemic effects

OSSIRANO, MONO[(C12-14 – ALCHILLOSSI)METIL] DERIVATI

CAS: 68609-97-2

Value	Target group	Exposure via	Exposure frequency
17 mg/kg	Industrial worker:	Human Skin	Short-term systemic effects
0.029 mg/l	Industrial worker:	Human Inhalation	Short-term systemic effects
0.0098 mg/l	Industrial worker:	Human Inhalation	Short-term systemic effects
3.9 mg/kg	Industrial worker:	Human Skin	Long-term systemic effects
0.0138 mg/l	Industrial worker:	Human Inhalation	Long-term systemic effects
1.7 mg/kg	Industrial worker:	Human Skin	Long-term systemic effects
0.00098 mg/l	Industrial worker:	Human Inhalation	Long-term systemic effects

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10 mg/kg	Consumer:	Human Skin	Short-term systemic effects
0.0076 mg/m ³	Consumer:	Human Inhalation	Short-term systemic effects
1219 mg/kg	Consumer:	Human Oral	Short-term systemic effects
40 mg/kg	Consumer:	Human Skin	Short-term systemic effects
0.0029 mg/l	Consumer:	Human Inhalation	Short-term systemic effects
2.35 mg/kg	Consumer:	Human Skin	Long-term systemic effects
0.0041 mg/l	Consumer:	Human Inhalation	Long-term systemic effects
1 mg/kg	Consumer:	Oral Human	Long-term systemic effects

BISPHENOL-F - EPOXY
RESIN

CAS: 28064-14-4

Value	Target group	Exposure via	Exposure frequency
0.0083 mg/cm ²	Industrial worker:	Human Skin	Short-term systemic effects
104.15 mg/kg	Industrial worker:	Human Skin	Long-term systemic effects
29.39 mg/m ³	Industrial worker:	Inhalation Umana	Long-term systemic effects
62.5 mg/kg	Consumer:	Human Skin	Long-term systemic effects
8.7 mg/m ³	Consumer:	Human Inhalation	Long-term systemic effects
6.25 mg/kg	Consumer:	Human Oral	Long-term systemic effects

PNEC Exposure Limit Values

Reaction product: BISPHENOL-A-EPICHLOROHYDRIN

Epoxy resins: Average molecular weight <= 700

CAS: 25068-38-6

Target	Value
Freshwater	0.006 mg/l
Marine water	0.0006 mg/l
Freshwater sediments	0.0627 mg/kg
Marine water sediments	0.00627 mg/kg

OXIRANE, MONO
[(C12-14 -
ALKYLOXY) METHYL]
DERIVATIVES

CAS: 68609-97-2

Target	Value
Freshwater	0.0072 mg/l
Marine water	0.00072 mg/l
Occasional release	0.072 mg/l
Freshwater sediments	66.77 mg/kg

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Marine water sediments	6.677 mg/kg
Farmland	80.12 mg/kg
Microorganisms in wastewater treatment	10 mg/l

BISPHENOL-F - EPOXY RESIN

CAS:	28064-14-4
Target	Value
Freshwater	0.003 mg/l
Marine water	0.0003 mg/l
Occasional release	0.0254 mg/l
Freshwater sediments	0.294 mg/kg
Marine water sediments	0.0294 mg/kg
Farmland	0.237 mg/kg

8.2 EXPOSURE CONTROLS

Respiratory protection:	Not necessary for normal use.
Eye protection:	Use closed safety goggles, do not use contact lenses.
Skin protection:	Wear clothing that guarantees total protection for the skin, eg. in cotton, rubber, PVC or viton.
Hand protection:	Use protective gloves that guarantee total protection, eg. in PVC, neoprene or rubber. LLPDE (0.06mm), nitrile (0.4mm) or butyl (0.5mm) gloves are recommended. Latex gloves are not recommended.

All personal protective equipment must comply with the relevant CE standards (such as EN 374 for gloves and EN 166 for goggles), kept efficient and stored appropriately. The duration of use of protective devices against chemical agents depends on various factors (type of use, climatic factors and storage methods), which can also significantly reduce the usability time required by CE standards. Always consult the supplier of the protective equipment. Instruct the worker in the use of the devices provided.

Thermal risks:	None
Environmental exposure controls:	None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pasta
Color:	Grey
Odour:	Characteristic
Odor threshold:	N.A.
pH:	N.A.

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Melting point/freezing:	N.A.
Boiling point iniziale and boiling range:	== °C
Solid / gas flammability:	N.A.
Upper / lower limit of flammability or explosion:	N.A.
Density of vapors:	N.A.
Flash point:	== °C
Evaporation rate:	N.A.
Remarks:	<0.01 kPa (23 °C)
Distribution coefficient (n-octanolo/ water) (log P O/W):	1,70-1,75 g/cm ³ (23 °C)
Dynamic viscosity [kg/(m*s)]	N.A.
Vapor pressure:	Insoluble
Relative density:	<0.01 kPa (23 °C)
Density of vapors relativa all'aria:	1,70-1,75 g/cm ³ (23 °C)
Water solubility:	N.A.
Solubility in oil:	Insoluble
Viscosity:	Soluble
Self-ignition temperatures:	650 mPa.s (23 °C)
Flammability limits in the air (% in vol.):	==
Decomposition temperatures:	==
Partition coefficient (n-ottanolo/water):	N.A.
Explosive properties:	N.A.
Oxidizing properties:	==
9.2. OTHER INFORMATION	N.A.
Miscibility:	N.A.
Fat solubility:	N.A.
Conductivity:	N.A.
Characteristic properties of groups of substances:	N.A.

10. STABILITY AND
REACTIVITY

Partition coefficient (n-ottanolo/water):

10.1. REACTIVITY

Stable under normal conditions

10.2. CHEMICAL STABILITY

Stable under normal conditions

10.3 POSSIBILITY OF
HAZARDOUS
REACTIONS

Può infiammarsi a contatto con agenti ossidanti forti.

10.4 CONDITIONS TO AVOID

Stable under normal conditions.

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10.5 INCOMPATIBLE MATERIALS No one in particular.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS None.

11. TOXICOLOGICAL INFORMATION**11.1 TOXICOLOGICAL INFORMATION***Routes of penetration:*

Ingestion: Yes

Inhalation: Yes

Contact: Yes

Toxicological information related to the preparation: No toxicological data are available on the mixture as such. Therefore, keep in mind the concentration of the individual substances in order to evaluate the toxicological effects resulting from exposure to the mixture.

The toxicological information regarding the main substances present in the preparation is given below:

Toxicological information of the mixture: N.A.

Toxicological information concerning the main substances present in the mixture:

BISFENOLO-A-EPICLORIDRINA

Epoxy resins: Average molecular weight <= 700

CAS: 25068-38-6

a) Acute Toxicity [mg/kg]	Test	Via	Test species
> 15000	LD50	Oral	Rat
23000	LD50	Skin	Rabbit

OSSIRANO, MONO[(C12-14 – ALCHILOSSI)METIL] DERIVATI

CAS: 68609-97-2

a) Acute Toxicity [mg/kg]	Test	Via	Test species
> 26800	LD50	Oral	Rat

BISPHENOL-F - EPOXY RESIN

CAS: 28064-14-4

a) Acute Toxicity [mg/kg]	Test	Via	Test species
> 2000	LD50	Oral	Rat

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11.2 Additional information	Experience in practice	Symptoms of overexposure can be headache, dizziness, fatigue, nausea and vomiting. Irritant for eyes, respiratory tract and skin. Irritant for mucous membranes.
	Corrosivity / Irritating power:	
	Skin:	Contact can cause irritation.
	Eye:	Direct contact can cause irritation.
	Sensitizing power:	Possible for repeated contact.
	Carcinogenesis:	No effect evidenced.
	Mutagenesis:	No effect evidenced.
	Teratogenesis:	No effect evidenced.
	Other information:	The epoxy resins contained in this product are only slightly irritating. All epoxies, however, can cause Sensitization of the skin. The predisposition to Sensitization of the skin varies from individual to individual. In a sensitized person, allergic dermatitis may not manifest initially and appear only after several days or weeks of frequent and prolonged contact. For this reason, contact with the skin must be carefully avoided. Once Sensitization has occurred, even exposure to very small amounts of material can locally cause edema and erythema.
	Unless otherwise specified, the data required by Regulation 453/2010 / EC indicated below are to be understood as N.A. .:	<ul style="list-style-type: none"> a) acute toxicity; b) skin corrosion / irritation; c) serious eye damage / eye irritation; d) respiratory or skin sensitization; e) germ cell mutagenicity; f) carcinogenicity; g) reproductive toxicity; h) specific target organ toxicity (STOT) - single exposure; i) specific target organ toxicity (STOT) - repeated exposure; j) danger in case of aspiration.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY	Use according to good working practices, avoiding to disperse the product in the environment.
Data on the mixture:	Data not available
Biodegradability:	Not readily biodegradable.

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Toxic to aquatic organisms, it can cause long-term adverse effects in the aquatic environment.

Reaction product: BISPHENOL-A-EPICHLOROHYDRIN

Epoxy resins: Average molecular weight <= 700

CAS: 25068-38-6

a) Acute aquatic toxicity:

<i>Endpoint:</i>	<i>Species:</i>	<i>mg/l:</i>	<i>Duration h:</i>
LC50	Fish	> 1.5 mg/l	96 h
EC50	Dafnie	> 1.8 mg/l	48 h
EC50	Algae	> 11 mg/l	72 h

12.2. PERSISTENCE AND DEGRADABILITY:

N.A.

12.3. POTENTIAL OF BIOACCUMULATION:

N.A.

12.4. MOBILITY IN THE SOIL:

N.A.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

Substances vPvB:

None

Substances PBT:

None

12.6. OTHER ADVERSE EFFECTS

None.
Data not available on the mixture

13. CONSIDERATIONS ON DISPOSAL

13.1 WASTE TREATMENT METHODS

Recover if possible.
Operate according to local and national regulations.
Dispose of this material and its containers at a hazardous or special waste collection point.
Do not dispersed in the environment.
Refer to special instructions / safety data sheets.

RS 814.610

Ordinance on the traffic of waste (OTWas)

RS 814.600

Ordinance on the traffic of waste (OTWas)

RS 814.610.1

DETEC ordinance on waste traffic lists

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14. TRANSPORT INFORMATION

14.1. NUMBER ONU		3082
14.2. UN SHIPPING NAME	ADR-Shipping Name:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. DANGER CLASSES CONNECTED TO TRANSPORT	RID/ADR:	9, III
	ADR-Top number:	NA
	Airplane transport (ICAO/IATA):	9, III
	IMO/IMDG:	9, III
	LIMITED QUANTITY	(3.4.6. ADR e 3.4.2. IMDG) Dangerous goods in limited quantities.
14.4. PACKAGING GROUP		
14.5. DANGERS FOR THE ENVIRONMENT	Marine pollutant:	Yes
14.6. SPECIAL PRECAUTIONS FOR USERS		
14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE		N.A.
	HS-Code:	35069190

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	D.Lgs. 9/4/2008 n. 81
	D.M. Work 02/26/2004 (Occupational Exposure Limits)
	D.M. 03/04/2007 (Implementation of the directive n. 2006/8/CE)
	Regulation (CE) n. 1907/2006 (REACH)
	Regulation (CE) n. 1272/2008 (CLP) Regulation (CE) n. 790/2009 (ATP 1 CLP) Regulation (UE) n. 453/2010 (Allegato I)
	Regulation (UE) n. 282/2011 (ATP 2 CLP)
	Regulation (UE) n. 618/2012 (ATP 3 CLP)
Regulation (UE) n. 487/2013 (ATP 4 CLP)	
Regulation (UE) n. 944/2013 (ATP 5 CLP)	

Restrictions relating to the product or substances contained in accordance with Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent amendments:

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<i>Restrictions related to the product:</i>	Restriction 3
<i>Restrictions relating to the substances contained:</i>	None
Legislative Decree no.81 of 9 April 2008 Title IX, "dangerous substances - Chapter I - Protection from chemical agents"	
Directive 2000/39 / EC and subsequent amendments (Occupational Exposure Limits) 152 of 3 April 2006, as amended (Environmental regulations)	
Directive 2012/18 / EU (Seveso III)	
ADR Agreement - IMDG Code - IATA Regulation	
<i>Water hazard class:</i>	2
<i>VOC (2004/42/EC):</i>	N.A. g/l
<i>National and local regulations must be respected.</i>	

15.2. CHEMICAL SAFETY ASSESSMENT	No
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16. OTHER INFORMATION	Text of the sentences used in paragraph 3:	H319 Causes serious eye irritation.
		H315 Causes skin irritation.
		H317 May cause an allergic skin reaction.
		H411 Toxic to aquatic life with long lasting effects.
		H372 Causes damage to organs through prolonged or repeated exposure.
		NIOSH - Registry of toxic effects of chemical substances
		ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
		SAX'S - Dangerous properties of industrial materials
		Superior Institute of Health - National Inventory of Chemical Substances

The information contained herein is based on our knowledge as of the above date. They refer only to the product indicated and do not constitute a guarantee of particular quality. This sheet supersedes any previous edition.

Safety data sheet

DRYpox B



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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/

UNDERTAKING

1.1 PRODUCT IDENTIFIER	Commercial Product Name:	DRYpox B
1.2 RELEVANT USES IDENTIFIED OF THE SUBSTANCE OR MIXTURE AND USES NOT RECOMMENDED	Identified uses:	Hardener for epoxy compounds.
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET	Company:	Drytech International SA via Industrie 12 CH-6930 Bedano TI SVIZZERA
	T	+41 (0)91 960 23 49
	@	info@drytechinternational.com
1.4 EMERGENCY TELEPHONE NUMBER	Switzerland: 145 From abroad: +41 44 251 51 51	

2. HAZARDS IDENTIFICATION

2.1 SUBSTANCE OR MIXTURE CLASSIFICATION	Classification according to Regulation (EC) No. 1272/2008	Skin Corr. 1A, Causes severe skin burns and eye damage. Eye Dam. 1, Causes serious eye damage. Skin Sens. 1A, May cause an allergic skin reaction. Aquatic Chronic 3, Harmful to aquatic life with long lasting effects	
	Physico-chemical effects harmful to human health and the environment:	No other danger	
2.2 LABEL ELEMENTS	Hazard pictograms:		
		GHS07	GHS09
		Signal word	Danger
H-statement(s)		H314 causes severe skin burns and severe eye damage H317 May cause an allergic skin reaction H412 Harmful for aquatic life with long lasting effects	

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<i>P-statement(s)</i>	P260 Do not breathe the vapors P261 Avoid breathing vapors P273 Do not disperse in the environment P280 Wear protective gloves / clothing / eye protection / face
<i>Precautionary advice:</i>	P303+P361+P353 IN CASE OF CONTACT WITH HAIR (or hair): immediately remove all contaminated clothing. Rinse the skin / take a shower. P305+P351+P338 IN CASE OF CONTACT WITH THE EYES: rinse thoroughly for several minutes. Remove any contact lenses if easy to do. Continue rinsing. P310 Immediately contact a POISON CENTER.
<i>Special provisions:</i>	None
<i>Contains:</i>	trimethylhexamethylenediamine; 2,4,6-tri(dimethyl-aminomethyl) phenol; phenol styrenate.
	It can cause an allergic reaction
<i>Special provisions based on Annex XVII of REACH and subsequent amendments:</i>	None
2.3 OTHER DANGERS	<i>Substances vPvB:</i> None <i>Substances PBT:</i> None <i>Altri pericoli:</i> No other danger

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 SUBSTANCES	N.A.
3.2 MIXTURES	<i>Hazardous components within the meaning of the CLP Regulation and related classification:</i>
	<i>Ingredient</i> ≥10% - <20% TRIMETHYLHEXAMETHYLENEDIAMINE
	<i>CAS-Nr.</i> 25513-64-8
	<i>CE-Nr.</i> 247-063-2
	<i>REACH-Nr.:</i> 01-2119560598-25-XXXX

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	<p>Oral Acute Tox. 4 H302 Eye Dam. 1 H318 Skin Corr. 1A H314 Skin Sens. 1A H317 Aquatic Chronic 3 H412</p>
<i>Ingredient:</i>	≥5% - <10% ALCOOL BENZILICO
<i>Number Index:</i>	603-057-00-5
<i>CAS-Nr.</i>	100-51-6
<i>CE-Nr.</i>	202-859-9
<i>Nr. REACH</i>	01-2119492630-38-XXXX
	<p>Inhal Acute Tox. 4 H332 Eye Irrit. 2 H319 Oral Acute Tox. 4 H302</p>
<i>Ingredient:</i>	≥1% - <2.5% 2,4,6-TRI(DIMETIL-AMINO-METIL) FENOLO
<i>CAS-Nr.</i>	90-72-2
<i>CE-Nr.</i>	202-013-9
<i>Nr. REACH</i>	01-2119560597-27-xxxx
	<p>Skin Corr. 1B H314 Skin Sens. 1A H317 Aquatic Chronic 3 H412</p>
<i>Ingredient:</i>	≥1% - <2.5% PHENOL, STYRENATE
<i>CAS-Nr.</i>	61788-44-1
<i>CE-Nr.</i>	262-975-0
<i>Nr. REACH</i>	02-2119629611-43-0000
	<p>Skin Irrit. 2 H315 Skin Sens. 1, 1A, 1B H317 Aquatic Chronic 2 H411</p>

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	<i>Inhalation:</i>	In case of irregular or absent breathing, give artificial respiration. In case of inhalation, consult a doctor immediately and show him the packaging or the label.
	<i>Skin contact:</i>	Immediately take off contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. SEE A DOCTOR IMMEDIATELY. Thoroughly wash the body (shower), contaminated clothing and dispose of them safely.

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In case of contact with the skin, wash immediately with plenty of water and soap.

Eye contact:

In case of contact with the eyes, rinse them with water for an adequate amount of time and keeping the eyelids open, then immediately consult an ophthalmologist. Protect the uninjured eye.

Ingestion:

DO NOT induce vomiting. Do not give anything to eat or drink. Absolutely do not provoke vomiting. SEEK MEDICAL EXAMINATION IMMEDIATELY. Activated charcoal suspended in toilet water or medicinal mineral vaseline oil can be administered.

4.2. MAIN SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The product is harmful following acute exposure to it and poses serious health risks if inhaled or ingested. The product is corrosive and, if brought into contact with the skin, causes burns, destroying the entire thickness of the skin tissue. If brought into contact with the skin, the product may cause skin Sensitization.

4.3. INDICATION OF ANY NEED TO SEE A DOCTOR IMMEDIATELY AND SPECIAL TREATMENTS

In the event of an accident or discomfort, consult a doctor immediately (if possible show the instructions for use or the safety data sheet). Treatment: (see point 4.1).

5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media
Extinguishing media which must not be used for safety reasons:

No one in particular. Water.

No one in particular.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Do not inhale the gases produced by the explosion and combustion. Burning produces heavy smoke. The fumes released during a fire may contain ingredients as they are or unidentified toxic and / or irritating compounds.

5.3 ADVICE FOR FIREFIGHTERS

Use suitable respiratory equipment. Collect contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system. If feasible from a safety point of view, move undamaged containers from the area of immediate danger.

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6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear personal protective equipment. If exposed to vapors / dusts / aerosols wear respiratory equipment. Provide adequate ventilation. Use adequate respiratory protection. Consult the protective measures set out in points 7 and 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Contain the spillage with earth or sand. Prevent penetration into the soil / subsoil. Prevent run-off into surface water or the sewer system. In the event of a gas leak or penetration into water courses, soil or the sewer system, inform the responsible authorities.
Material suitable for collection: organic absorbent material, sand.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Quickly collect the product wearing protective clothing. Material suitable for collection: absorbent, organic, sand. Wash with plenty of water. Retain contaminated washing water and dispose of it.

6.4. REFERENCE TO OTHER SECTIONS

See also paragraphs 8 and 13

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with the skin and eyes, the inhalation of vapors and mists. Use localized ventilation system. Do not use empty containers before they have been cleaned. Before transferring operations, make sure that there are no incompatible residual materials in the containers. Contaminated clothing must be replaced before entering the dining areas. At work do not eat or drink. See also paragraph 8 for recommended protective devices.

Precautions for storage rooms and containers:

Store in original containers. Keep container tightly closed in a dry and well-ventilated place.

Indications against fires and explosions

Take precautionary measures against static discharges. Vapours may form explosive mixture with air. Use water spray to cool unopened containers.

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7.2. **CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES** Always keep containers tightly closed. Keep away from food, drink and feed.

Incompatible materials: No one in particular.

Indication for the premises: Adequately ventilated rooms.

7.3. **SPECIFIC END USES** No particular use

**8. EXPOSURE CONTROLS/
PERSONAL
PROTECTION**

8.1 **CONTROL PARAMETERS** There are no occupational exposure limits available

DNEL exposure limit values

TRIMETHYLHEXAMETHYLENE-
DIAMINE

CAS: 25513-64-8

Value	Target group	Exposure via	Effects
0.05 mg/kg	Workers	Human Oral	Long-term systemic effects

PNEC Exposure Limit Values

TRIMETHYLHEXAMETHYLENE-
DIAMINE

CAS: 25513-64-8

Target	Value
Freshwater	0.0295 mg/l
Marine water	0.00295 mg/l
Freshwater sediments	0.18 mg/kg
Marine water sediments:	0.018 mg/kg
Farmland	0.019 mg/kg

8.2 **EXPOSURE CONTROLS** *Respiratory protection:* Use adequate respiratory protection device.

Hand protection: Use protective gloves that guarantee total protection, eg. in PVC, neoprene or rubber. LLPDE (0.06mm), nitrile (0.4mm) or butyl (0.5mm) gloves are recommended. Latex gloves are not recommended.

Skin protection: Wear clothing that guarantees total protection for the skin, eg. in cotton, rubber, PVC or viton.

Eye protection: Safety glasses. Use closed safety goggles, do not use contact lenses.

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All personal protective equipment must comply with the relevant CE standards (such as EN 374 for gloves and EN 166 for goggles), kept efficient and stored appropriately. The duration of use of protective devices against chemical agents depends on various factors (type of use, climatic factors and storage methods), which can also significantly reduce the usability time required by CE standards. Always consult the supplier of the protective equipment. Instruct the worker in the use of the devices provided.

<i>Thermal risks:</i>	None
<i>Environmental exposure controls:</i>	None
	In case of insufficient ventilation use mask with AK2 filters (EN 141).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance:</i>	Pasta
<i>Color:</i>	White
<i>Odour:</i>	Ammoniacal
<i>Odor threshold:</i>	N.A.
<i>pH:</i>	11
<i>Melting point/freezing:</i>	N.A.
<i>Boiling point iniziale and boiling range:</i>	N.A.
<i>Solid / gas flammability:</i>	N.A.
<i>Upper / lower limit of flammability or explosion:</i>	N.A.
<i>Density of vapors:</i>	N.A.
<i>Flash point:</i>	N.A.
<i>Evaporation rate:</i>	N.A.
<i>Vapor pressure:</i>	N.A.
<i>Relative density:</i>	1,60 g/cm ³ (23 °C)
<i>Density of vapors relativa all'aria:</i>	N.A.
<i>Water solubility:</i>	Partially soluble
<i>Solubility in oil:</i>	Insoluble
<i>Viscosity:</i>	300000 - 400000 mPa.s (23°C)
<i>Self-ignition temperatures:</i>	== °C
<i>Flammability limits in the air (% in vol.):</i>	==
<i>Decomposition temperatures:</i>	N.A.
<i>Partition coefficient (n-ottanolo/water):</i>	N.A.
<i>Explosive properties:</i>	==
<i>Oxidizing properties:</i>	N.A.

9.2. OTHER INFORMATION

<i>Miscibility:</i>	N.A.
<i>Fat solubility:</i>	N.A.

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<i>Conductivity:</i>	N.A.
<i>Characteristic properties of groups of substances:</i>	N.A.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY	Stable under normal conditions
10.2. CHEMICAL STABILITY	Stable under normal conditions
10.3. POSSIBILITY OF HAZARDOUS REACTIONS	It can generate flammable gases in contact with elementary metals (alkali and alkaline earths), strong reducing agents. It can generate toxic gases in contact with oxidizing mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, strong oxidizing agents. It can catch fire on contact with strong oxidizing agents.
10.4 CONDITIONS TO AVOID	Stable under normal conditions
10.5 Incompatible materials	No one in particular.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	None.

11. TOXICOLOGICAL INFORMATION

11.1 TOXICOLOGICAL INFORMATION	<i>Routes of penetration:</i>	
	<i>Ingestion:</i>	Yes
	<i>Inhalation:</i>	Yes
	<i>Contact:</i>	Yes
	<i>Toxicological information related to the preparation:</i>	Non sono disponibili dati tossicologici sulla miscela in quanto conto. Si tenga, quindi, presente la concentrazione delle singole sostanze al fine di sottovalutare gli effetti tossicologici derivanti dall'esposizione alla miscela.
	<i>The toxicological information regarding the main substances present in the preparation is given below:</i>	
	<i>Informazioni tossicologiche riguardanti la miscela:</i>	N.A.

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Toxicological information concerning the main substances present in the mixture:

TRIMETHYLHEXAMETHYLE-NEDIAMINE

CAS: 25513-64-8

Acute toxicity

Test	Via	Test species	Acute Toxicity [mg/kg]
LD50	Oral	Rat	910 mg/kg

ALCOOL BENZILICO

CAS: 100-51-6

Acute Toxicity

Test	Via	Test species	Acute Toxicity [mg/kg]
LD50	Skin	Rabbit	2000 mg/kg
LD50	Oral	Rat	1230 mg/kg
LC50	Inhalation	Rat	> 4.1 mg/l – Duration 4h

Acute Toxicity

Test	Via	Test species	Acute Toxicity [mg/kg]
LD50	Oral	Rat	2169 mg/kg

PHENOL, STYRENATE

CAS: 61788-44-1

Acute toxicity

Test	Via	Test species	Acute Toxicity [mg/kg]
LD50	Skin	Rat	> 2000 mg/kg
LD50	Oral	Rat	> 2000 mg/kg
LC50	Inhalation	Rat	> 5 mg/kg

CORROSIVITY / IRRITATING POWER:

Skin: Corrosive. Contact can cause burns.

Eye: Direct contact can cause serious eye damage.

Sensitizing power.: Possible for repeated contact.

Carcinogenesis: No effect evidenced

Mutagenesis: No effect evidenced.

Teratogenesis: No effect evidenced.

Other information

The predisposition to Sensitization of the skin varies from individual to individual. In a sensitized person, allergic dermatitis may not initially manifest and appear only after several days or weeks of frequent and prolonged contact. For this reason, contact with the skin must be carefully avoided.

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Once Sensitization has occurred, even exposure to very small amounts of material can locally cause edema and erythema. Unless otherwise specified, the data required by Regulation 453/2010 / EC indicated below are to be understood as N.A.:

- a) acute toxicity;
- b) skin corrosion / irritation;
- c) serious eye damage / eye irritation;
- d) Respiratory or skin sensitization;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) specific target organ toxicity (STOT) - single exposure;
- i) specific target organ toxicity (STOT) - repeated exposure;
- j) danger in case of aspiration.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Data not available on the mixture

Use according to good working practices, avoiding to disperse the product in the environment. Harmful for aquatic organisms, it can cause long-term adverse effects on the aquatic environment.

TRIMETHYLHEXAMETHYLENE-DIAMINE

CAS: 25513-64-8

a) Acute aquatic toxicity:

Test	Species	Toxicity mg/l	Duration h
LC50	Fish	174 mg/l	48 h
EC50	Dafnie	31.5 mg/l	24 h

ALCOOL BENZILICO

CAS: 100-51-6

a) Acute aquatic toxicity:

Test	Species	Toxicity mg/l	Duration h
LC50	Fish	10 mg/l	96 h
LC50	Fish	460 mg/l	96 h
EC50	Algae	700 mg/l	72 h

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2,4,6-TRI (DIMETHYLAMINO-METHYL) PHENOL

CAS: 90-72-2

a) Acute aquatic toxicity:

Test	Species	Toxicity mg/l	Duration h
LC50	Fish	175 mg/l	96 h
EC50	Algae	84 mg/l	72 h

PHENOL, STRETCHED

CAS: 61788-44-1

Test	Species	Toxicity mg/l	Duration h
LC50	Dafnie	1-10 mg/l	48 h
LC50	Algae	3.14 mg/l	72 h
EC50	Fish	14.8 mg/l	96 h

12.2. PERSISTENCE AND DEGRADABILITY

N.A.

12.3. POTENTIAL OF BIOACCUMULATION

N.A.

12.4. MOBILITY IN THE SOIL

N.A.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

Substances vPvB:
Substances PBT:

None

None

12.6. OTHER EFFECTS ADVERSE

None. Data not available on the mixture

13. CONSIDERATIONS ON DISPOSAL

13.1 WASTE TREATMENT METHODS

Recover if possible. Send to authorized disposal plants or for incineration under controlled conditions. Operate according to local and national regulations. Dispose of this material and its containers at a hazardous or special waste collection point. Do not dispersed in the environment. Refer to special instructions / safety data sheets.

RS 814.610 Ordinance on the traffic of waste (OTWas)

RS 814.600 Ordinance on the traffic of waste (OTR)

RS 814.610.1 DETEC ordinance on waste traffic lists

14. TRANSPORT INFORMATION

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14.1. NUMBER ONU	Number ONU:	2327
14.2. UN SHIPPING NAME	ADR-Shipping Name:	UN 2327 TRIMETHYLESAMETHYLEN-DIAMINE
14.3. DANGER CLASSES CONNECTED TO TRANSPORT	RID/ADR:	8, III
	ADR-Top number:	N.A.
	Airplane transport (ICAO/IATA):	8, III
	IMO/IMDG:	8, III
	LIMITED QUANTITY	(3.4.6. ADR e 3.4.2. IMDG)
	Dangerous goods in limited quantities:	N.A.
14.4. PACKAGING GROUP		
14.5. DANGERS FOR THE ENVIRONMENT		
14.6. PRECAUTIONS SPECIAL FOR THE USERS		
14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE		N.A.
	HS-Code:	35069190

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	<p>D.Lgs. 9/4/2008 n. 81 D.M. Work 02/26/2004 (Occupational Exposure Limits) D.M. 03/04/2007 (Implementation of the directive n. 2006/8/CE) Regulation (CE) n. 1907/2006 (REACH) Regulation (CE) n. 1272/2008 (CLP) Regulation (CE) n. 790/2009 (ATP 1 CLP) Regulation (UE) n. 453/2010 (Allegato I) Regulation (UE) n. 282/2011 (ATP 2 CLP) Regulation (UE) n. 618/2012 (ATP 3 CLP) Regulation (UE) n. 487/2013 (ATP 4 CLP) Regulation (UE) n. 944/2013 (ATP 5 CLP)</p>
	<p><i>Restrictions relating to the product or substances contained in accordance with Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent amendments:</i></p>
	<p><i>Restrictions related to the product:</i> Restriction 3</p>
	<p><i>Restrictions relating to the substances contained:</i> None</p>
	<p>Legislative Decree no.81 of 9 April 2008 Title IX, "dangerous substances - Chapter I - Protection from chemical agents"</p>
	<p>Directive 2000/39 / EC and subsequent amendments (Occupational Exposure Limits)</p>

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ADR Agreement - IMDG Code - IATA Regulation

Water hazard class: 2

VOC (2004/42/EC) : N.A. g/l

National and local regulations must be respected.

16. OTHER INFORMATION

Relevant H-phrases

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H314 It causes serious skin burns and serious eye injuries.

H317 May cause an allergic skin reaction.

H412 Harmful for aquatic life with long lasting effects.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances
 ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
 SAX'S - Dangerous properties of industrial materials
 Superior Institute of Health - National Inventory of Chemical Substances

The information contained herein is based on our knowledge as of the above date. They refer only to the product indicated and do not constitute a guarantee of particular quality. This sheet supersedes any previous edition.

As of the date of publication, the information provided in this SDS is correct to the best of our knowledge, information and belief. The information provided is intended only as a guide to safety in handling, use, processing, storage, transport, disposal and distribution and must not be construed as guarantee and quality specifications. The information refers only to the specific material indicated and may not be valid for such material when used in combination with other materials or in other processes, unless otherwise specified in the text.