DRACO ITALIANA S.p.A. DRAP154B - EPOX INIEZIONE RM2 COMP. B

Revision nr.4 Dated 26/07/2021 Printed on 26/07/2021 Page n. 1 / 15 Replaced revision:3 (Dated 05/08/2020)

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: DRAP154B

Product name EPOX INIEZIONE RM2 COMP. B

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

Intended use Part of a two-component system

1.3. Details of the supplier of the safety data sheet

Name DRACO ITALIANA S.p.A. Full address Via Monte Grappa, 11 D-E

District and Country 20067 Tribiano (MI)

Italia

Tel. +39 02.90632917 Fax +39 02.90631976

e-mail address of the competent person

responsible for the Safety Data Sheet info@draco-edilizia.it

1.4. Emergency telephone number

For urgent inquiries refer to Centro Antiveleni di Bergamo 800883300 (Azienda Ospedaliera Papa Giovanni XXII)

Centro Antiveleni di Firenze 0557947819 (Az. Osp. "Careggi" U.O. Tossicologia

Medica)

Centro Antiveleni di Foggia 80018345 (Az. Osp. Univ. Foggia) Centro Antiveleni di Milano 0266101029 (Osp. Niguarda Ca' Granda) Centro Antiveleni di Napoli 0817472870 (Az. Osp. "A. Cardarelli")

Centro Antiveleni di Pavia 038224444 (CAV Centro Nazionale di Informazione

Tossicologica)

Centro Antiveleni di Roma 063054343 (CAV Policlinico "A. Gemelli") Centro Antiveleni di Roma 0649978000 (CAV Policlinico "Umberto I")

Centro Antiveleni di Roma 06 68593726 (CAV "Osp. Pediatrico Bambino Gesù" Dip.

Emergenza e Accettazione DEA)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Acute toxicity, category 4	H302	Harmful if swallowed.
Specific target organ toxicity - repeated exposure,	H373	May cause damage to organs through prolonged or
category 2		repeated exposure.
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.
toxicity, category 3		

ΕN

DRACO ITALIANA S.p.A.

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SECTION 2. Hazards identification .../>>

2.2. Label elements

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

Hazard pictograms:







Signal words: Danger

Hazard statements:

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P310 Immediately call a POISON CENTER / doctor / . . .

P264 Wash . . . thoroughly after handling.

Contains: Formaldehyde, polymer with benzenamine, hydrogenated

2-piperazin-1-iletilamina

4,4 Methylenebis (cyclohexylamine)

Alcol benzilico

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

Alcol benzilico

CAS 100-51-6 30 ≤ x < 50 Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319

EC 202-859-9

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Reg. no. 01-2119492630-38-XXXX

Formaldehyde, polymer with benzenamine, hydrogenated

CAS 135108-88-2 30 ≤ x < 50 Acute Tox. 4 H302, STOT RE 2 H373, Skin Corr. 1C H314, Eye Dam. 1 H318,

Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC 603-894-6

INDEX

Reg. no. 01-2119983522-33-XXXX

2-piperazin-1-iletilamina

CAS 140-31-8 9 ≤ x < 25 Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318,

Skin Sens. 1 H317, Aquatic Chronic 3 H412

EC 205-411-0 INDEX 612-105-00-4

Reg. no. 01-2119471486-30-XXXX

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SECTION 3. Composition/information on ingredients/>>

2,4,6-Tri-(dimetilaminometil) fenolo

CAS 90-72-2 $3 \le x < 9$ Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 202-013-9 INDEX 603-069-00-0

 Reg. no.
 01-2119560597-27-XXXX

 4,4 Methylenebis (cyclohexylamine)

 CAS
 1761-71-3
 3 ≤ x < 5</td>

Acute Tox. 4 H302, STOT RE 2 H373, Skin Corr. 1B H314, Eye Dam. 1 H318,

Skin Sens. 1 H317

EC 217-168-8

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Reg. no. 01-2119541673-38-XXXX

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

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

INALAZIONE

Portare il soggetto interessato all'aria aperta e tenerlo al caldo e a riposo in posizione che favorisca la respirazione. Sciacquare naso e bocca con acqua. In caso di difficoltà di respirazione, personale adeguatamente addestrato può assistere il soggetto interessato tramite la somministrazione di ossigeno. In caso di arresto respiratorio, praticare la respirazione artificiale. Consultare un medico.

INGESTONI

Sciacquare accuratamente la bocca con acqua. Non somministrare mai nulla per via orale a una persona priva di sensi. Non provocare il vomito. In caso di vomito, tenere la testa in basso per impedire che il vomito entri nei polmoni. Consultare immediatamente un medico.

CONTATTO CON LA PELLE

Togliersi di dosso immediatamente gli indumenti contaminati e lavare la pelle con acqua e sapone. Consultare immediatamente un medico.

CONTATTO CON GLI OCCHI

Togliere le eventuali lenti a contatto e tenere le palpebre ben separate. Sciacquare immediatamente e abbondantemente con acqua. Continuare a sciacquare per almeno 15 minuti. Consultare immediatamente un medico. Continuare a sciacquare.

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

Inalazione: Possono verificarsi ustioni. Può provocare danni alle membrane mucose di naso, gola, polmoni e sistema bronchiale.

Ingestione: Nocivo se ingerito. Provoca gravi ustioni. Può provocare ustioni chimiche in bocca, nell'esofago e nello stomaco.

Contattto con la pelle: Provoca gravi ustioni. Può provocare una reazione allergica cutanea.

Contatto con gli occhi: Provoca gravi lesioni oculari. Può provocare ustioni chimiche degli occhi. Può provocare lesioni permanenti se non si pratica immediatamente il lavaggio oculare.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

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SECTION 5. Firefighting measures .../>>

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIREDo not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

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SECTION 8. Exposure controls/personal protection .../>>

Mormal value in freeh	ncentration -					1	mg/l	
Normal value in fresh							-	
Normal value in marir						0,1	mg/l	
Normal value for fresh						5,27	mg/kg/d	
Normal value for mari						0,527	mg/kg/d	
Normal value for water	,					2,3	mg/l	
Normal value of STP						39	mg/l	
Normal value for the t	terrestrial cor	mpartment				0,466	mg/kg/d	
lealth - Derived no-effe	ect level - DN	NEL / DMEL						
	Effects on	consumers			Effects on wor	rkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		20		4		•		•
o.a.		mg/kg bw/d		mg/kg bw/d				
Inhalation		27		5,4		110		22
milalation		mg/m3		mg/m3		mg/m3		mg/m3
Skin		20		4		40		8
SKIII		mg/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
		mg/kg bw/u		mg/kg bw/u		bw/d		bw/d
						DW/U		DW/U
tradiated no offert com	acontrati	DNEC	2-piperaz	in-1-iletilamina				
Predicted no-effect con		PNEC				0.050	H	
Normal value in fresh						0,058	mg/l	
Normal value in marir						0,0058	mg/l	
Normal value for fresh						215	mg/kg	
Normal value for mari						21,5	mg/kg	
Normal value for water						0,58	mg/l	
Normal value of STP						250	mg/l	
Normal value for the t	terrestrial cor	mpartment				42,9	mg/kg	
Health - Derived no-effe								
	Effects on	consumers			Effects on wor	rkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
reduce or expectation	local	systemic	local	systemic	local	systemic	local	systemic
Oral	iocai	1,5	local	0,3	local	Systemic	iocai	Systemic
Olai		mg/kg bw/d		mg/kg bw/d				
Inhalation		5,3		0,9		21.4		2.6
Inhalation						21,4		3,6
011		mg/m3		mg/m3		mg/m3		mg/m3
Skin	0,02	10	0,003	1,7	0,04	20	0,006	3,3
	mg/cm2	mg/kg bw/d	mg/cm2	mg/kg bw/d	mg/cm2	mg/kg	mg/cm2	mg/kg
						bw/d		bw/d
			4 Methyleneb	is (cyclohexyla	mine)			
			4 Methyleneb	is (cyclohexyla	mine)			
Normal value in fresh	water		4 Methyleneb	is (cyclohexyla	mine)	0,08	mg/l	
Normal value in fresh Normal value in marir	n water ne water	- PNEC	4 Methyleneb	is (cyclohexyla	mine)	0,008	mg/l	
Normal value in fresh	n water ne water	- PNEC	4 Methyleneb	is (cyclohexyla	mine)	0,008 137		
Normal value in fresh Normal value in marir	n water ne water h water sedin	nent	4 Methyleneb	is (cyclohexyla	mine)	0,008	mg/l	
Normal value in fresh Normal value in marir Normal value for fresl	n water ne water h water sedin ine water sed	nent	4 Methyleneb	is (cyclohexyla	mine)	0,008 137	mg/l mg/kg/d	
Normal value in fresh Normal value in marir Normal value for fresh Normal value for marir Normal value for wate	n water ne water h water sedin ine water sed er, intermitten	nent diment nt release	4 Methyleneb	is (cyclohexyla	mine)	0,008 137 13,7 0,08	mg/l mg/kg/d mg/kg/d mg/l	
Normal value in fresh Normal value in marir Normal value for fresh Normal value for mari Normal value for wate Normal value of STP	n water ne water h water sedin rine water sed er, intermitten microorganis	ment diment nt release sms	4 Methyleneb	is (cyclohexyla	mine)	0,008 137 13,7 0,08 3,2	mg/l mg/kg/d mg/kg/d mg/l mg/l	
Normal value in fresh Normal value in marir Normal value for fresh Normal value for marir Normal value for wate Normal value of STP Normal value for the f	n water ne water h water sedin ine water sed er, intermitten microorganis terrestrial con	ment diment nt release sms mpartment	4 Methyleneb	is (cyclohexyla	mine)	0,008 137 13,7 0,08	mg/l mg/kg/d mg/kg/d mg/l	
Normal value in fresh Normal value in marir Normal value for fresh Normal value for marir Normal value for wate Normal value of STP Normal value for the f	n water ne water h water sedin ine water sed er, intermitten microorganis terrestrial con ect level - DN	ment diment nt release sms mpartment NEL / DMEL	4 Methyleneb	is (cyclohexyla		0,008 137 13,7 0,08 3,2 27,2	mg/l mg/kg/d mg/kg/d mg/l mg/l	
Normal value in fresh Normal value in marir Normal value for fresh Normal value for marir Normal value for wate Normal value of STP Normal value for the the the lealth - Derived no-effe	n water ne water h water sedin ine water sed er, intermitten microorganis terrestrial cor ect level - DN Effects on	ment diment nt release sms mpartment NEL / DMEL consumers			Effects on wor	0,008 137 13,7 0,08 3,2 27,2	mg/l mg/kg/d mg/kg/d mg/l mg/l mg/kg/d	Chronio
Normal value in fresh Normal value in marir Normal value for fresh Normal value for marir Normal value for wate Normal value of STP Normal value for the f	n water ne water h water sedin rine water sed er, intermitten microorganis terrestrial cor ect level - DN Effects on Acute	ment diment nt release sms mpartment NEL / DMEL consumers Acute	Chronic	Chronic	Effects on wor	0,008 137 13,7 0,08 3,2 27,2 rkers Acute	mg/l mg/kg/d mg/kg/d mg/l mg/l mg/kg/d	Chronic
Normal value in fresh Normal value in marir Normal value for fresh Normal value for marir Normal value for wate Normal value of STP Normal value for the the the lealth - Derived no-effer	n water ne water h water sedin ine water sed er, intermitten microorganis terrestrial cor ect level - DN Effects on	ment diment nt release sms mpartment NEL / DMEL consumers		Chronic systemic	Effects on wor	0,008 137 13,7 0,08 3,2 27,2	mg/l mg/kg/d mg/kg/d mg/l mg/l mg/kg/d	Chronic systemic
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Normal value in fresh Normal value in marir Normal value for fresh Normal value for marir Normal value for wate Normal value of STP Normal value for the the the lealth - Derived no-effer	n water ne water h water sedin rine water sed er, intermitten microorganis terrestrial cor ect level - DN Effects on Acute	ment diment nt release sms mpartment NEL / DMEL consumers Acute	Chronic	Chronic systemic 0,06 mg/kg bw/d 0,21	Effects on wor	0,008 137 13,7 0,08 3,2 27,2 rkers Acute	mg/l mg/kg/d mg/kg/d mg/l mg/l mg/kg/d	systemic 1
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Normal value in fresh Normal value in marir Normal value for fresh Normal value for marir Normal value for wate Normal value of STP Normal value for the the the lealth - Derived no-effer	n water ne water h water sedin rine water sed er, intermitten microorganis terrestrial cor ect level - DN Effects on Acute	ment diment nt release sms mpartment NEL / DMEL consumers Acute	Chronic	Chronic systemic 0,06 mg/kg bw/d 0,21	Effects on wor	0,008 137 13,7 0,08 3,2 27,2 rkers Acute	mg/l mg/kg/d mg/kg/d mg/l mg/l mg/kg/d	systemic 1
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Normal value in fresh Normal value in marir Normal value for fresh Normal value for marir Normal value for wate Normal value of STP Normal value for the telealth - Derived no-effet Route of exposure Oral Inhalation	n water ne water h water sedin rine water sed er, intermitten microorganis terrestrial cor ect level - DN Effects on Acute	ment diment nt release sms mpartment NEL / DMEL consumers Acute	Chronic	Chronic systemic 0,06 mg/kg bw/d 0,21	Effects on wor	0,008 137 13,7 0,08 3,2 27,2 rkers Acute	mg/l mg/kg/d mg/kg/d mg/l mg/l mg/kg/d	systemic 1 mg/m3

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SECTION 8. Exposure controls/personal protection .../>>

2,4,6-Tri-(dimetilaminometil) fend	olo
Predicted no-effect concentration - PNEC	
Normal value in fresh water	0,084 mg/l
Normal value in marine water	0,0084 mg/l

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

Protezione delle mani

Scegliere i guanti più adatti rivolgendosi al fornitore/produttore dei guanti, che può fornire informazioni sul tempo di fessurazione del materiale con cui sono realizzati i guanti. Indossare guanti impermeabili, resistenti agli agenti chimici e conformi a uno standard approvato se una valutazione dei rischi indica la possibilità di contatto con la pelle. Il tempo di fessurazione dei guanti scelti deve essere pari ad almeno 8 ore. Cloruro di polivinile (PVC). Gomma butilica. Gomma nitrilica. Neoprene. Per proteggere le mani dalle sostanze chimiche, i guanti devono essere conformi allo standard europeo EN374.

Information

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value
Appearance		liquid
Colour		yellow
Odour		ammoniacale
Odour threshold		Not available
рН		8
Melting point / freezing point		Not available
Initial boiling point	>	200 °C
Boiling range		Not available
Flash point	>	100 °C
Evaporation rate		Not available
Flammability (solid, gas)		Not available

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SECTION 9. Physical and chemical properties/>>

Lower inflammability limit
Upper inflammability limit
Not available
Lower explosive limit
Upper explosive limit
Upper explosive limit
Vapour pressure
Vapour density
Relative density
Not available
1,03
Not available
1,03

Solubility insoluble in water
Partition coefficient: n-octanol/water Not available
Auto-ignition temperature Not available
Decomposition temperature Not available
Viscosity Not available
Explosive properties Not available
Oxidising properties Not available

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

Scegliere i guanti più adatti rivolgendosi al fornitore/produttore dei guanti, che può fornire informazioni sul tempo di fessurazione del materiale con cui sono realizzati i guanti. Indossare guanti impermeabili, resistenti agli agenti chimici e conformi a uno standard approvato se una valutazione dei rischi indica la possibilità di contatto con la pelle. Il tempo di fessurazione dei guanti scelti deve essere pari ad almeno 8 ore. Cloruro di polivinile (PVC). Gomma butilica. Gomma nitrilica. Neoprene. Per proteggere le mani dalle sostanze chimiche, i guanti devono essere conformi allo standard europeo EN374.

10.4. Conditions to avoid

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

Evitare il calore eccessivo per periodi prolungati.

10.5. Incompatible materials

Evitare il contatto con i seguenti materiali: Sodium Hypochlorite Acidi - organici. Acidi minerali. Metalli chimicamente attivi. Perossidi. Nitriti organici. Nitriti inorganici. Nitrous acid (HNO2), Nirosating agents Agenti ossidanti forti.

10.6. Hazardous decomposition products

Formaldehyde, polymer with benzenamine, hydrogenated

Organic decomposition products containing nitrogen. carbon monoxide, carbon dioxide

La decomposizione termica o i prodotti di combustione possono includere le seguenti sostanze: Diossido di carbonio (CO2). Monossido di carbonio (CO). Acido nitrico (HNO3). Gas nitrosi (NOx). Ammoniaca o ammine. Aldeidi. Idrocarburi. Under certain conditions the substance can form nitrosamines. Nitrosamines are carcinogenic in animal studies.

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SECTION 11. Toxicological information

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

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

11.1. Information on toxicological effects

Alcol benzilico

Inhalation: Vapor may irritate the respiratory tract / lungs. Vapors can irritate the throat / respiratory tract. Symptoms following overexposure may include the following: Cough. Vapors can cause headache, fatigue, dizziness and nausea. Harmful by inhalation. Ingestion: Harmful if swallowed. Nausea, vomiting. Diarrhea. Headache. The ingestion of large quantities can cause unconsciousness.

Skin contact: Prolonged and frequent contact may cause redness and irritation.

Eye contact: Causes serious eye irritation.

2-piperazin-1-iletilamina

Inhalation: Gases or vapors in high concentrations can irritate the respiratory tract.

Ingestion: Harmful if swallowed.

Skin contact: Causes severe burns. Toxic in contact with the skin. May cause an allergic skin reaction.

Contact with eyes: Causes serious eye damage.

4,4 Methylenebis (cyclohexylamine)

Inhalation: Gas or vapor in high concentrations may irritate the respiratory tract.

Ingestion: Harmful if swallowed. It can cause burns in mucous membranes, in the throat, in the esophagus and in the stomach. May cause damage to organs (Liver) in case of prolonged or repeated exposure if swallowed.

Skin contact: Causes severe burns. May cause sensitization by skin contact.

Eye contact: Causes serious eye damage.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

It can cause damage to the mucous membranes of the nose, throat, lungs and bronchial system. Burns can occur. Overexposure can cause central nervous system depression, causing dizziness and intoxication.

Harmful if swallowed. It can cause chemical burns in the mouth, esophagus and stomach.

Causes severe burns. May cause an allergic skin reaction.

Causes serious eye damage. May cause chemical eye burns.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: 637,51 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

Alcol benzilico

 LD50 (Oral)
 1620 mg/kg Ratto

 LD50 (Dermal)
 2001 mg/kg Ratto

 LC50 (Inhalation)
 11 mg/l Ratto

Formaldehyde, polymer with benzenamine, hydrogenated

 LD50 (Oral)
 > 1000 mg/kg Rat

 LD50 (Dermal)
 2001 mg/kg Rabbit

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4,4 Methylenebis (cyclohexylamine)

 LD50 (Oral)
 625 mg/kg Rat

 LD50 (Dermal)
 2110 mg/kg Rabbit

2,4,6-Tri-(dimetilaminometil) fenolo

LD50 (Oral) 2169 mg/kg

2-piperazin-1-iletilamina

 LD50 (Oral)
 500 mg/kg

 LD50 (Dermal)
 866 mg/kg Rat

Alcol benzilico

Repeated dose toxicity
Species: rat, male and female
NOEX: 400 mg / kg, 1072
Method of application: inhalation
Atomosphere test: dust / fog
Exposure time: 4 w
Number of exhibitions: 6 h
Method: OECD 412

SKIN CORROSION / IRRITATION

Corrosive for the skin

Formaldehyde, polymer with benzenamine, hydrogenated

The substance was corrosive in an in vitro Corrositex test. Signs of irritation / corrosivity were also observed in acute oral and dermal toxicity tests with this material and in tests with similar substances.

Alcol benzilico Species: rabbit

Assessment: no skin irritation

Method: OECD 404

2-piperazin-1-iletilamina Corrosive to the skin.

4,4 Methylenebis (cyclohexylamine)

Corrosive to the skin.

2,4,6-Tri-(dimetilaminometil) fenolo

Corrosive to the skin.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

Alcol benzilico Species: rabbit Evaluation: irritating Method: OECD 405 Result: irritating to the eyes

2-piperazin-1-iletilamina Causes serious eye damage.

4,4 Methylenebis (cyclohexylamine) Risk of serious eye damage.

2,4,6-Tri-(dimetilaminometil) fenolo Causes serious eye damage.

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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2,4,6-Tri-(dimetilaminometil) fenolo

Skin sensitizer.

Skin sensitization Alcol benzilico Species: Guinea pig Method: OECD 406 Result: Not sensitizing.

Species: Guinea pig

Result: does not cause skin sensitization

4,4 Methylenebis (cyclohexylamine)

Sensitizing.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

Alcol benzilico

Method of application: intraperitoneal injection

Dose: 200 mg / kg Method: OECD 474 Result: negative

4,4 Methylenebis (cyclohexylamine)
Genotoxicity - in vitro Ames test: Negative.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Alcol benzilico

NOAEL 200 mg / kg / day, Oral, Mouse OECD 453 $\,$

NOAEL> 400 mg / kg bw / day, Oral, Rat OECD 451 Based on available data the classification criteria are not met.

NOALE: 400 mg / kg, oral, Rat (103 weeks of exposure, 5 times a day). Method: OECD 453 $\,$

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Alcol benzilico

Based on available data, the classification criteria are not met. Fertility - NOAEL 1072 mg / kg bw / day, Inhalation, Rat

Species: mouse, female Method of application: oral

General toxicity in mothers: lowest observed toxicity level: 550 mg / kg bw

Result: no teratogenic effect

Adverse effects on sexual function and fertility

2-piperazin-1-iletilamina

Contiene una sostanza/un gruppo di sostanze che possono nuocere alla fertilità.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

May cause damage to organs

Formaldehyde, polymer with benzenamine, hydrogenated NOAEL 15 mg / kg bw / day, Oral, Rat

Alcol benzilico

NOAEL 400 mg / kg, Oral, Rat

Species: rat, male and female

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NOEC: 400 mg / kgMethod of application: inhalation

Test atmosphere: dust / fog Exposure time: 4 w Exposure number: 6 h Method: OECD 412

4,4 Methylenebis (cyclohexylamine)

May cause damage to organs (Liver) in case of prolonged or repeated exposure if swallowed.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Formaldehyde, polymer with benzenamine, hydrogenated

Acute toxicity microorganisms - EC50, 3 hours: 187 mg / I, activated sludge

Alcol benzilico

It is not considered toxic to fish.

LC50, 96 hours: 10 mg / I, Lepomis macrochirus (Perch)

Acute toxicity microorganisms - CI50, 49 hours: 2100 mg / I, activated sludge

4,4 Methylenebis (cyclohexylamine)

CL0, 96 hours: 46 mg / L, Leuciscus idus (golden Ido)

EC50, 72 hours: 140 - 200 mg / L, Algae

Alcol benzilico

LC50 - for Fish 460 mg/l/96h Pimephales promelas, OECD 203 EC50 - for Crustacea 230 mg/l/48h Daphnia magna, OECD 202

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants

770 mg/l/72h Selenastrum capricornutum, OECD 201, static test
51 mg/l Daphnia magna, 21 d, OECD 211, semistatic test
Chronic NOEC for Algae / Aquatic Plants

310 mg/l Pseudokirchneriella subcapitata, OECD 201

Formaldehyde, polymer with benzenamine, hydrogenated

LC50 - for Fish 63 mg/l/96h Poecilia reticulata EC50 - for Crustacea 15,4 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 43,9 mg/l/72h Algae

4,4 Methylenebis (cyclohexylamine)

LC50 - for Fish > 100 mg/l/96h Leuciscus idus EC50 - for Crustacea 6,84 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 140 mg/l/72h

Chronic NOEC for Crustacea 4 mg/l Daphnia magna, 604 h

2,4,6-Tri-(dimetilaminometil) fenolo

LC50 - for Fish 964 mg/l/96h

2-piperazin-1-iletilamina

LC50 - for Fish 2190 mg/l/96h

EC50 - for Crustacea 58 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Algae

12.2. Persistence and degradability

Alcol benzilico

Degradation 92 - 96%: 14 days OECD 301C Degradation 95 - 97%: 21 days OECD 301A

Inoculum: waste water (STP outflow)

Concentration: 20mg / I Result: rapidly biodegradable

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SECTION 12. Ecological information .../>>

Biodegradation: 95-97%Exposure time: 21 d

Method: OECD 301 A

Alcol benzilico Rapidly degradable

Formaldehyde, polymer with benzenamine, hydrogenated NOT rapidly degradable

4,4 Methylenebis (cyclohexylamine)

NOT rapidly degradable

2-piperazin-1-iletilamina NOT rapidly degradable

12.3. Bioaccumulative potential

4,4 Methylenebis (cyclohexylamine) The product is insoluble in water.

Alcol benzilico

Partition coefficient: n-octanol/water 1,1
BCF 1

4,4 Methylenebis (cyclohexylamine)

Partition coefficient: n-octanol/water 2,03

2,4,6-Tri-(dimetilaminometil) fenolo

Partition coefficient: n-octanol/water -0,66 Log Kow 21,5°C

2-piperazin-1-iletilamina

Partition coefficient: n-octanol/water -1,48 Log Kow

12.4. Mobility in soil

Alcol benzilico

Surface tension 39 mN / m @ 20 $^{\circ}$ C OECD 115

Koc: 5-15

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 2735

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SECTION 14. Transport information .../>>

14.2. UN proper shipping name

ADR / RID: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. IATA: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80 Limited Quantities: 1 L Tunnel restriction code: (E)

Special provision: -

IMDG: EMS: F-A, S-B Limited Quantities: 1 L

IATA: Cargo: Maximum quantity: 30 L Packaging instructions: 855
Pass.: Maximum quantity: 1 L Packaging instructions: 851

Special provision: A3, A803

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3
Contained substance

Point 75 2-piperazin-1-iletilamina

Reg. no.: 01-2119471486-30-XXXX

Point 75 2,4,6-Tri-(dimetilaminometil) fenolo

Reg. no.: 01-2119560597-27-XXXX

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

ΕN

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SECTION 15. Regulatory information .../>>

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

Formaldehyde, polymer with benzenamine, hydrogenated

Alcol benzilico

4,4 Methylenebis (cyclohexylamine)

SECTION 16. Other information

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

Acute Tox. 3 Acute toxicity, category 3
Acute Tox. 4 Acute toxicity, category 4

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B
Skin Corrosion, category 1B
Skin Corr. 1C
Skin corrosion, category 1C
Eye Dam. 1
Eye Irrit. 2
Skin Irrit. 2
Skin Irrit. 2
Skin Sens. 1
Skin corrosion, category 1C
Skin corrosion, category 1C
Skin category 1
Skin corrosion, category 1

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H311 Toxic in contact with skin.
H302 Harmful if swallowed.
H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train

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SECTION 16. Other information .../>>

- TLV: Threshold Limit Value- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Regulation (EU) 2020/217 (XIV Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

03 / 11 / 12 / 14 / 15.