

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878

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

1.1. Product identifier

Code: DRAP236
Product name: EPOBETON C - COMP. B

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

Intended use: Two-component castable epoxy mortar

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.
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 toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:



DRAP236 - EPOBETON C - COMP. B

SECTION 2. Hazards identification ... / >>

Signal words: Danger

Hazard statements:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER / doctor / . . .
P391 Collect spillage.

Contains: 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)
 3-aminometil-3,5,5-trimetilcicloesilamina
 Alcol benzilico
 Salicylic acid

2.3. Other hazards

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

The product contains substances with endocrine disrupting properties in concentration $\geq$ 0.1%.
 Salicylic acid

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Alcol benzilico		
CAS	100-51-6	$30 \leq x < 50$
EC	202-859-9	
INDEX		
REACH Reg.	01-2119492630-38-XXXX	
3-aminometil-3,5,5-trimetilcicloesilamina		
CAS	2855-13-2	$25 \leq x < 30$
EC	220-666-8	
INDEX	612-067-00-9	
REACH Reg.	01-2119514687-32-XXXX	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)		
CAS	113930-69-1	$25 \leq x < 30$
EC	500-302-7	
INDEX		
REACH Reg.	01-2119965162-39-XXXX	
Salicylic acid		
CAS	69-72-7	$1 \leq x < 3$
EC	200-712-3	
INDEX	607-732-00-5	
REACH Reg.	01-2119486984-17-XXXX	

Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319
LD50 Oral: 1620 mg/kg, LC50 Inhalation vapours: 11 mg/l

Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318,
Skin Sens. 1 H317, Aquatic Chronic 3 H412
LD50 Oral: 500 mg/kg, LD50 Dermal: 1100 mg/kg

Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 2 H411

Repr. 2 H361d, Acute Tox. 4 H302, Eye Dam. 1 H318
LD50 Oral: 500 mg/kg

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

DRACO ITALIANA S.p.A.

DRAP236 - EPOBETON C - COMP. B

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EN

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.

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

General informations:

move away from the danger area. Consult your doctor. Show this safety data sheet to your doctor. Treat symptomatically. Get medical attention if symptoms occur.

If inhaled:

Place in the open air. Get medical attention if symptoms occur.

In case of skin contact:

Immediate medical treatment is necessary as the corrosive effects on the skin show a slow and poor healing of the sore.

If in contact with the skin, rinse well with water. If it gets on your clothing, take it off.

In case of eye contact:

Small amounts splashed into the eyes can cause irreversible tissue damage and blindness.

In case of contact with eyes, wash immediately and with plenty of water. Consult a physician.

Continue rinsing your eyes during transport to the hospital. Remove contact lenses.

If irritation persists, consult a physician.

If ingested:

Keep the respiratory tract clean. DO NOT induce vomiting. Do not give anything to an unconscious person. If symptoms persist, consult a doctor.

INFORMAZIONE GENERALE

Allontanare dall'area di pericolo.

Consultare un medico

Mostrare questa scheda dati di sicurezza la medico curante.

Trattare sintomaticamente.

Consultare un medico se si presentano sintomi.

SE INALATO

Portare all'aria aperta.

Consultare un medico se si presentano sintomi.

IN CASO DI CONTATTO CON LA PELLE

Trattamento medico immediato si rende necessario in quanto gli effetti corrosivi sulla pelle mostrano una lenta e cattiva guarigione della piaga.

Se in contatto con la pelle, sciacquare bene con acqua.

Se si deposita sugli indumenti, togliere gli indumenti.

IN CASO DI CONTATTO CON GLI OCCHI

Lavare immediatamente e abbondantemente con acqua e consultare un medico.

Continuare a sciacquare gli occhi durante il trasporto all'ospedale.

Rimuovere le lenti a contatto.

Sciacquare tenendo l'occhio ben spalancato.

Qualora persista l'irritazione agli occhi, consultare un medico.

SE INGERITO

Mantenere il tratto respiratorio pulito.

NON indurre il vomito.

Non somministrare alcunché a persone svenute.

In caso di persistenza dei disturbi consultare un medico.

Portare subito l'infortunato in ospedale.

DRAP236 - EPOBETON C - COMP. B**SECTION 4. First aid measures ... / >>****4.2. Most important symptoms and effects, both acute and delayed**

Small amounts splashed into the eyes can cause irreversible tissue damage and blindness
Immediate medical treatment is necessary as the corrosive effects on the skin show a slow and poor healing of the sore.

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

Treat symptomatically.

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.

MEZZI DI ESTINZIONE IDONEI

Utilizzare sistemi estinguenti a base polvere, CO2, schiuma

MEZZI DI ESTINZIONE NON IDONEI

Getto d'acqua abbondante

5.2. Special hazards arising from the substance or mixture**HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products.

La miscela è classificata come pericolosa dal punto di vista ambientale.

Non permettere che i mezzi di estinzione penetrino nei canali di scolo o nei corsi d'acqua.

Durante la combustione si possono liberare vapori o gas tossici (es. CO e CO2).

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).

Se necessario, indossare un respiratore autonomo per intervenire.

Raccogliere separatamente l'acqua contaminata utilizzata per estinguere l'incendio.

Non scaricarla nella rete fognaria.

Smaltire l'acqua contaminata usata per l'estinzione ed il residuo dell'incendio secondo le norme vigenti.

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.

Usare dispositivi di protezione individuali (vedere sezione 8).

DRAP236 - EPOBETON C - COMP. B**SECTION 6. Accidental release measures ... / >>****6.2. Environmental precautions**

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

Non scaricare il prodotto nelle fogne.

Evitare sversamenti o perdite supplementari, se questo può essere fatto senza pericolo.

In caso di inquinamento di fiumi, laghi o fognature, informare le autorità competenti in conformità alle leggi locali.

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.

Procedura di bonifica (consigliata):

Neutralizzare con acido.

Asciugare con materiali inerti (es. sabbia, gel di silice, leganti per acidi, legante universale, segatura)

Conservare in contenitori adatti e chiusi per lo smaltimento.

6.4. Reference to other sections

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

Sezione 8 e 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.

Non respirare i vapori e le polveri.

Evitare l'esposizione (procurarsi peciali istruzioni prima dell'uso).

Evitare il contatto con gli occhi e con la pelle.

Vedere la Sezione 8 per i dispositivi di protezione individuale.

Non mangiare, bere e fumare durante il lavoro.

Applicare misure di igiene industriale adeguate.

Per evitare fuoriuscite durante l'utilizzo tenere il recipiente in un vassoio metallico.

Smaltire l'acqua di lavaggio secondo le normative nazionali e locali.

Le persone con problemi di sensibilizzazione cutaneo o asmatica, con malattie respiratori croniche non dovrebbero essere impiegate nell'uso di questo prodotto.

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.

Tenere il contenitore ermeticamente chiuso in un ambiente secco e ben ventilato.

Chiudere accuratamente i contenitori aperti e riporli in posizione verticale per evitare perdite.

Osservare le indicazioni riportate sull'etichetta.

Tenere i contenitori appropriatamente etichettati.

Non immagazzinare in prossimità di acidi.

Stabile in condizioni normali

Temperatura di stoccaggio consigliata: 2 - 40°C

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Alcol benzilico

Predicted no-effect concentration - PNEC

Normal value in fresh water	1	mg/l
Normal value in marine water	0,1	mg/l
Normal value for fresh water sediment	5,27	mg/kg/d
Normal value for marine water sediment	0,527	mg/kg/d
Normal value for water, intermittent release	2,3	mg/l
Normal value of STP microorganisms	39	mg/l
Normal value for the terrestrial compartment	0,466	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		20 mg/kg bw/d		4 mg/kg bw/d				
Inhalation		27 mg/m3		5,4 mg/m3		110 mg/m3		22 mg/m3
Skin		20 mg/kg bw/d		4 mg/kg bw/d		40 mg/kg bw/d		8 mg/kg bw/d

3-aminometil-3,5,5-trimetilcicloesilamina

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,06	mg/l
Normal value in marine water	0,006	mg/l
Normal value for fresh water sediment	5,784	mg/kg/d
Normal value for marine water sediment	0,578	mg/kg/d
Normal value of STP microorganisms	3,18	mg/l
Normal value for the terrestrial compartment	1,121	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,526 mg/kg bw/d				
Inhalation					20,1 mg/m3	20,1 mg/m3		

Salicylic acid

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,2	mg/l
Normal value for fresh water sediment	1,42	mg/kg
Normal value for water, intermittent release	1	mg/l
Normal value of STP microorganisms	162	mg/l
Normal value for the terrestrial compartment	0,166	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		4 mg/kg bw/d		1 mg/kg bw/d				
Inhalation			0,2	4 mg/m3			5 mg/m3	5 mg/m3
Skin				1 mg/kg				2,3 mg/kg bw/d

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

DRAP236 - EPOBETON C - COMP. B**SECTION 8. Exposure controls/personal protection ... / >>**

Il monitoraggio della concentrazione di sostanze nella zona di inalazione dei lavoratori o nel luogo di lavoro generale può essere richiesto per confermare la conformità ai limiti di esposizione professionale e l'adeguatezza dei controlli dell'esposizione. Per alcune sostanze può essere appropriato anche il monitoraggio biologico.

I metodi di misurazione dell'esposizione validati devono essere applicati da una persona competente e i campioni devono essere analizzati da un laboratorio accreditato.

Si dovrebbe fare riferimento a standard di monitoraggio, come i seguenti:

Norma EN 689 (Esposizione nei luoghi di lavoro - Misurazione dell'esposizione per inalazione agli agenti chimici - Strategia per la verifica della conformità coi valori limite di esposizione occupazionale)

Norma EN 14042 (Atmosfera nell'ambiente di lavoro - Guida all'applicazione e all'utilizzo di procedimenti per la valutazione dell'esposizione ad agenti chimici e biologici)

Norma EN 482 (Atmosfera nell'ambiente di lavoro - Requisiti generali per la prestazione di procedure per la misurazione di agenti chimici)

Sarà inoltre richiesto il riferimento ai documenti di orientamento nazionali per i metodi per la determinazione delle sostanze pericolose.

Per reperire informazioni al tale riguardo si può consultare:

<http://amcaw.ifa.dguv.de/WForm09.aspx>

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.

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 DEGLI OCCHI

Bottiglia per il lavaggio oculare con acqua pura.

Occhiali di protezione di sicurezza aderenti.

Mettere sul viso uno schermo e indossare un abito protettivo per problemi anomali di lavorazione.

PROTEZIONE DELLE MANI

Materiale: gomma butilica

Tempo di permeazione: > 8 h

Materiale: gomma nitrilica

Tempo di permeazione: 10 - 480 min

Fare riferimento ai fornitori di guanti.

Filtro: ABEK

DRAP236 - EPOBETON C - COMP. B**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	yellow	
Odour	amine	
Odour threshold	Not available	
Melting point / freezing point	Not available	
Initial boiling point	175 °C	
Flammability	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Flash point	117 °C	
Auto-ignition temperature	Not available	
Decomposition temperature	> 96°C °C	
pH	11,1	Concentration: 500 g/l % Temperature: 20 °C
Kinematic viscosity	Not available	
Dynamic viscosity	100-300 mPa.s	
Solubility	Not available	
Partition coefficient: n-octanol/water	Not determined	
Vapour pressure	Not available	
Density and/or relative density	1,05 g/cm3	
Relative vapour density	Not available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

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.

10.4. Conditions to avoid

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

10.5. Incompatible materials

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

Acidi e basi forti.

Acidi forti e basi forti. Agenti ossidanti forti.

10.6. Hazardous decomposition products

DRAP236 - EPOBETON C - COMP. B**SECTION 10. Stability and reactivity ... / >>**

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)
Carbon oxides
Nitrogen oxides (NOx)

Ossidi di carbonio (CO, CO₂), ossidi di azoto (NOx).

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.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

3-aminometil-3,5,5-trimetilcicloesilamina

Repeated dose toxicity

Species: Rat, male and female

NOAEL: 60 mg / kg

Method of application: ingestion

Exposure time: 90d

Doses: 20, 60, 160 mg/kg

Method: OECD 408

Target organ: Kidney

Species: rat, male and female

MOEC: 200

Method of application: inhalation

Atmosphere test: dust / fog

Exposure time: 216 h

Number of exhibitions: 6h

Method: subacute toxicity

Target organs: irritation of the respiratory tract

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:

> 20 mg/l

ATE (Oral) of the mixture:

1032,37 mg/kg

ATE (Dermal) of the mixture:

>2000 mg/kg

DRAP236 - EPOBETON C - COMP. B**SECTION 11. Toxicological information ... / >>**

Alcol benzilico
 LD50 (Oral): 1620 mg/kg Ratto
 LD50 (Dermal): 2001 mg/kg Ratto
 LC50 (Inhalation vapours): 11 mg/l Ratto

3-aminometil-3,5,5-trimetilcicloesilamina
 LD50 (Oral): 500 mg/kg Conversione in stima puntuale della tossicità acuta
 LD50 (Dermal): 1100 mg/kg Conversione in stima puntuale della tossicità acuta

Salicylic acid
 LD50 (Oral): 500 mg/kg Conversione in stima puntuale della tossicità acuta

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

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)
 Repeated dose toxicity
 Species: Rat, male and female
 NOAEL: 10 mg / kg
 LOAEL: 100 mg / kg
 Method of application: oral
 Exposure time: 90 d
 Number of exposures: daily
 Doses: 10, 1100, 300 mg / kg bw / d
 Method: OECD 408

Salicylic acid
 Repeated dose toxicity
 Species: rat, male and female
 NOAEL: 50 mg / kg
 Method of application: oral (food)
 Exposure time: 2 y
 Number of exposures: 7 d
 Doses: 0, 50, 250, 500, 1000 mg / kg bw
 Method: chronic toxicity
 Remarks: Information given is based on data obtained from similar substances.

Species: rat, female
 NOEC: 700
 Application method: inhalation (steam)
 Exposure time: 7h 4w
 Number of exposures: 5 d / w
 Dose: 635 mg / m3
 Method: OECD 414
 Remarks: Information given is based on data obtained from similar substances.

SKIN CORROSION / IRRITATION

Corrosive for the skin

Alcol benzilico
 Species: rabbit
 Assessment: no skin irritation
 Method: OECD 404

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)
 Species: human
 Method: OECD 431
 Result: corrosive after 3 minutes to 1 hour of exposure

DRAP236 - EPOBETON C - COMP. B**SECTION 11. Toxicological information ... / >>**

3-aminometil-3,5,5-trimetilcicloesilamina

Species: rabbit

Evaluation: causes burns

Salicylic acid

Species: rabbit

Method: OECD 404

Result: no skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

Alcol benzilico

Species: rabbit

Evaluation: irritating

Method: OECD 405

Result: irritating to the eyes

Salicylic acid

Species: rabbit

Assessment: Risk of serious eye damage

Result: irreversible effects on the eyes

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

3-aminometil-3,5,5-trimetilcicloesilamina

Route of exposure: skin

Species: guinea pig

Assessment: May cause sensitization by skin contact

Method: OECD 406

Result: causes sensitization

Salicylic acid

Route of exposure: skin

Test Type: Local Lymph Node Assay (LLNA)

Species: mouse

Method: OECD 429

Result: does not cause skin sensitization

Skin sensitization

Alcol benzilico

Species: Guinea pig

Method: OECD 406

Result: Not sensitizing.

Species: Guinea pig

Result: does not cause skin sensitization

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

Possibility or evidence of skin sensitization in humans

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

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4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

Genotossicità in vitro

Tipo di test: test di mutazione genetica

Sistema del test: salmonella typhimurium

Concentrazione: 1.5, 5.0, 15, 50, 150, 500, 15

Con o senza attivazione metabolica

Metodo: OECD 471

Risultato: negativo

3-aminometil-3,5,5-trimetilcicloesilamina

Genotossicità in vitro

tipo di test: in vitro di mutazione genica su cellule di mammifero

Sistema del test: cellule ovariche di criceto cinese

Concentrazione: 2mg/ml

Con o senza attivazione metabolica

Metodo: OECD 476

Risultato: negativo

Tipo di test: aberrazione cromosomica in vitro

Sistema del test: cellule ovariche di criceto cinese

Concentrazione: 1375 µg/l

Con o senza attivazione metabolica

Metodo: OECD 473

Risultato: negativo

Tipo di test: saggio di mutazione inversa

Sistema del test: salmonella typhimurium

Concentrazione: 5000 ug/plate

Con o senza attivazione metabolica

Metodo: OECD 471

Risultato: negativo

Genotossicità in vivo

Tipo di test: test in vivo del micronucleo

Saggio sulla specie: topo (maschio e femmina)

Tipo di cellula: midollo osseo

Modalità di applicazione: orale

Dosi: 500 mg/kg

Metodo: Direttiva 67/548/CEE, Annex V. B.12

Risultato: negativo

Salicylic acid

Genotossicità in vitro

Tipo di test: saggio di mutazione inversa

Sistema del test: salmonella typhimurium and E. Coli

Attivazione metabolica: con o senza attivazione metabolica

Metodo: OECD 471

Risultato: negativo

Tipo di test: Aberrazione cromosomica in vitro

Sistema del test: cellule ovariche di criceto cinese

Attivazione metabolica: con o senza attivazione metabolica

Metodo: OECD 473

Risultato: negativo

Tipo di test: test in vitro di mutazione genetica su cellule di mammifero

Sistema del test: cellule di linfoma murino

Attivazione metabolica: con o senza attivazione metabolica

Metodo: OECD 476

Risultato: negativo

Genotossicità in vivo

Tipo di test: saggio degli scambi tra cromatidi fratelli

Saggio sulla specie: topo (maschio)

Tipo di cellula: midollo osseo

Modalità di applicazione: orale

Dosi: 350 mg/kg

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Metodo: OPPTS 870.59.15

Risultato: negativo

Tipo di test: saggio degli scambi tra cromatidi fratelli

Saggio sulla specie: topo (maschio)

Tipo di cellula: midollo osseo

Modalità di applicazione: iniezione intraperitoneale

Dosi: 20/50/100 mg/kg

Metodo: OPPTS 870.5915

Risultato: negativo

Saggio sulla specie: topo (maschio)

Tipo di cellula: midollo osseo

Modalità di applicazione: iniezione intraperitoneale

Dosi: 50/100/200 mg/kg

Metodo: OECD 475

Risultato: negativo

Saggio sulla specie: Topo (maschio)

Tipo di cellula: midollo osseo

Modalità di applicazione: orale

Dosi: 350 mg/kg

Metodo: OECD 475

Risultato: negativo

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

Salicylic acid

Species: rat, male and female

Method of application: oral

Exposure time: 24 months

Doses: 0, 50, 250, 500, 1000 mg / kg

Frequency of treatment: 7 per day

No observed harm level: 500 mg / kg / bw / d

Result: negative

Remarks: Information given is based on data obtained from similar substances.

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

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

Test type: prenatal

species: rat, female

Method of application: oral

Doses: 25, 100 and 350 mg / kg bw / d

Duration of the single treatment: 18 d

Embryo-fetal toxicity

level within which no effects are observed: 250 mg / kg bw

Method: OECD 414

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Result: There was no effect on fertility and early embryonic development

3-aminometil-3,5,5-trimetilcicloesilamina

Species: rat, female

Method of application: oral

Dose: 10/50/250 mg / kg

General toxicity in mothers:

level within which no effects are observed: 50 mg / kg bw

Method: OECD 414

Result: no teratogenic effect

Salicylic acid

Classificato come H361d da Regolamento (UE) 2018/1480

Informazioni del fornitore:

Specie: coniglio, femmina

Modalità di applicazione: orale

Durata del singolo trattamento: 3 - 13 d

Tossicità generale delle madri: nessun livello di nocività osservato: 125 mg/kg bw

Tossicità per lo sviluppo

Nessun livello di nocività osservato: 250 mg/kg bw

Metodo: OECD 414

Osservazioni: l'informazione data è fornita su dati ottenuti da sostanze simili

Valutazione: alcune prove di effetti nocivi sullo sviluppo, fondate su esperimenti su animali.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Alcol benzilico

NOAEL 400 mg / kg, Oral, Rat

Species: rat, male and female

NOEC: 400 mg / kg

Method of application: inhalation

Test atmosphere: dust / fog

Exposure time: 4 w

Exposure number: 6 h

Method: OECD 412

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny:

Salicylic acid

SECTION 12. Ecological information

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

12.1. Toxicity

Alcol benzilico

It is not considered toxic to fish.

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

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

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4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

Toxicity to fish

LL50: 64 mg / l / 96h

Species: oncorhynchus mykiss

Static test

Method: OECD 203

Toxicity to aquatic invertebrates

EL50: 1.46 mg / l / 48h

Species: daphnia magna

Static test

Method: OECD 202

Toxicity to algae / aquatic plants

EL50> 30 mg / l / 72h

Species: pseudokirchneriella subcapitata

Static test

Method: OECD 201

Toxicity for micro-organisms

EC50: 888.9 mg / l / 3h

Species: activated sludge

Static test

Method: OECD 209

3-aminometil-3,5,5-trimetilcicloesilamina

Toxicity for micro-organisms

EC10: 1120 mg / l

Species: pseudomonas putida

Exposure time: 18 h

Test type: static test

Method: measured

Salicylic acid

Toxicity for micro-organisms

EC50: 380 mg / l / 16h

Species: pseudomonas putida

Test type: static test

Method: chromosomal multiplication inhibition test

Alcol benzilico

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Crustacea

Chronic NOEC for Algae / Aquatic Plants

460 mg/l/96h Pimephales promelas, OECD 203

230 mg/l/48h Daphnia magna, OECD 202

770 mg/l/72h Selenastrum capricornutum, OECD 201, static test

51 mg/l Daphnia magna, 21 d, OECD 211, semistatic test

310 mg/l Pseudokirchneriella subcapitata, OECD 201

3-aminometil-3,5,5-trimetilcicloesilamina

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

EC10 for Algae / Aquatic Plants

Chronic NOEC for Algae / Aquatic Plants

110 mg/l/96h Leuciscus idus, semi-static test. Dir. 67/548/CEE Annex V. C. 1

23 mg/l/48h Daphnia magna. Endpoint: mortality. Static test. OECD 202

37 mg/l/72h Desmodesmus subspicatus. Static test. Dir. 67/648/CEE Annex V. C. 3

11,2 mg/l/72h Demsodesmus subspicatus, Static test. Dir. 67/548/CEE Annex V. C. 3

3 mg/l Daphnia magna, 21 d. Semistatic test. OECD 202

Salicylic acid

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Crustacea

1370 mg/l/96h Pimephales promelas, OECD 203

870 mg/l/48h OECD 202

> 100 mg/l/72h OECD 201

10 mg/l Daphnia magna, 21 d, OECD 202

12.2. Persistence and degradability

Alcol benzilico

Degradation 92 - 96%: 14 days OECD 301C

Degradation 95 - 97%: 21 days OECD 301A

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SECTION 12. Ecological information ... / >>

Inoculum: waste water (STP outflow)

Concentration: 20mg / l

Result: rapidly biodegradable

Biodegradation: 95-97%

Exposure time: 21 d

Method: OECD 301 A

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

Test type: aerobic

Inoculum: activated sludge, not adapted

Concentration: 30.1 mg / l

Result: not immediately biodegradable

Biodegradation: 0%

Exposure time: 28d

3-aminometil-3,5,5-trimetilcicloesilamina

Test type: aerobic

Inoculum: activated sludge

Concentration: 6.9 mg / l

Result: not immediately biodegradable

Biodegradation: 8%

Exposure time: 28d

Method: Directive 67/548 / EEC, Annex V, C.4.A

Salicylic acid

Test: aerobic

Inoculum: mixture

Concentration: 100 mg / l

Result: rapidly biodegradable

Biodegradation: 88.1%

Related to: Biochemical oxygen demand

Exposure time: 14 d

Method: OECD 301 C

Test: aerobic

Inoculum: activated sludge, not adapted

Result: inherently biodegradable

Biodegradation> 90%

Related to: dissolved organic carbon (DOC)

Exposure time: 4 d

Method: Directive 67/548 / EEC, Annex V, C.9

Alcol benzilico

Rapidly degradable

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

NOT rapidly degradable

12.3. Bioaccumulative potential

Alcol benzilico

Partition coefficient: n-octanol/water

1,1

BCF

1

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

Partition coefficient: n-octanol/water

3,6 25°C

3-aminometil-3,5,5-trimetilcicloesilamina

Partition coefficient: n-octanol/water

0,99 Log Kow 23°C, pH: 6,34 OECD 107

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SECTION 12. Ecological information ... / >>

Salicylic acid
Partition coefficient: n-octanol/water 2,25 Kow 25°C, OECD 117

12.4. Mobility in soil

Alcol benzilico
Surface tension 39 mN / m @ 20 ° C OECD 115
Koc: 5-15

3-aminometil-3,5,5-trimetilcicloesilamina
Partition coefficient: soil/water 928 Koc

Salicylic acid
Partition coefficient: soil/water 35 Koc, OECD 121

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 $\geq$ than 0,1%.

12.6. Other adverse effects

Salicylic acid
Biochemical Oxygen Required (BOD): 950 mO₂ / g
Method: Directive 67/548 / EEC, Annex V, C.5

Required chemical oxygen (COD): 1580 mgO₂ / g

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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.

PRODOTTO

Il prodotto non deve entrare nelle fognature, corsi d'acqua o suolo. Non contaminare stagni, canili navigabili o fossati con il prodotto o il contenitore usato.

I rifiuti devono essere eliminati in un centro autorizzato.

CONTENITORI CONTAMINATI

Svuotare i contenuti residui.

Smaltire come prodotto inutilizzato.

Non riutilizzare contenitori vuoti.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 3267

DRAP236 - EPOBETON C - COMP. B**SECTION 14. Transport information ... / >>****14.2. UN proper shipping name**

ADR / RID:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine); 3-aminometil-3,5,5-trimetilcicloesilamina)
IMDG:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine); 3-aminometil-3,5,5-trimetilcicloesilamina)
IATA:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine); 3-aminometil-3,5,5-trimetilcicloesilamina)

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: Environmentally Hazardous



IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80 Special provision: -	Limited Quantities: 1 L	Tunnel restriction code: (E)
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: E2

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

Product

Point 3

Contained substance

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Point 75

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 $\geq$ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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
Alcol benzilico

SECTION 16. Other information

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

Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H361d	Suspected of damaging the unborn child.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- 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%

SECTION 16. Other information ... / >>

- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EU) 790/2009 (I Atp. CLP) 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
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9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
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15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
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20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
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- 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 11.

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:

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EN

SECTION 16. Other information ... / >>

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