

INTENSIVE CLEANER

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

>SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : INTENSIVE CLEANER
UFI : 4JD0-109X-J009-EC9G

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

professional use

1.3. Details of the supplier of the safety data sheet

Registered company name : BLANCHON UK.Limited.
Address : Brenchley House, School Road.TN27 0JW.Charing, Kent .United Kingdom.
Telephone : +44 7379 962 642 . Fax : .
fds@blanchon.com
www.ciranova.eu
Head Office - DEBAL COATINGS NV - Industrieweg 29 - 8800 Beveren-Roeselare - Belgium

1.4. Emergency telephone number : +844 892 0111.

Association/Organisation : National Poisons Information Service (Birmingham Unit).

Other emergency numbers

National Poisons Information Service (Birmingham Unit) : 844 892 0111
Poisons Information Centre of Ireland (DUBLIN) : +353 1 809 25 66 or +353 1 837 9964 (medical professionals)

>SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).
Serious eye damage, Category 1 (Eye Dam. 1, H318).
May produce an allergic reaction (EUH208).
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

Detergent mixture (see section 15).

> In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS05

Signal Word :

DANGER

Product identifiers :
EC 605-233-7

POLY(OXY-1,2-ETHANEDIY1), .ALPHA.-(2-PROPYLHEPTYI)-.OMEGA.-HYDROXY-

Additional labeling :
EUH208
EUH208
EUH208

Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.
Contains 2-METHYL-1,2-BENZOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.
Contains MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ;
2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1). May produce an allergic reaction.

Hazard statements :

H315

Causes skin irritation.

H318

Causes serious eye damage.

Precautionary statements - General :

P102

Keep out of reach of children.

Precautionary statements - Prevention :

P271

Use only outdoors or in a well-ventilated area.

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P280

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

Precautionary statements - Response :

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.

Precautionary statements - Disposal :

P501

Dispose of contents / container to an approved landfill.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 59 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances $\geq 0.1\%$ with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

>SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****> Composition :**

Identification	Classification (EC) 1272/2008	Note	%
CAS: 97489-15-1 EC: 307-055-2 REACH: 01-2119489924-20 SULFONIC ACIDS, C14-17 SEC-ALKANE, SODIUM SALTS INDEX: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 REACH: 01-2119475108-36	GHS07, GHS05 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412		10 $\leq$ x % < 25
2-BUTOXYETHANOL CAS: 160875-66-1 EC: 605-233-7	GHS06 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 3, H331	[i]	2.5 $\leq$ x % < 10
POLY(OXY-1,2-ETHANEDIY1), .ALPHA.-(2-PROPYLHEPTYI)-.OMEGA.-HYDRO XY- CAS: 68891-38-3 EC: 500-234-8	GHS07, GHS05 Dgr Acute Tox. 4, H302 Eye Dam. 1, H318		2.5 $\leq$ x % < 10
ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS CAS: 141-43-5 EC: 205-483-3 REACH: 01-21194866455-28	GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412		2.5 $\leq$ x % < 10
2-AMINOETHANOL INDEX: 607-620-00-6 CAS: 5064-31-3 EC: 225-768-6	GHS07, GHS05 Dgr Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 3, H412	[i]	2.5 $\leq$ x % < 10
TRISODIUM NITRILOTRIACETATE INDEX: 603-085-00-8 CAS: 52-51-7 EC: 200-143-0 REACH: 01-2119980938-15	GHS08, GHS07 Wng Carc. 2, H351 Acute Tox. 4, H302 Eye Irrit. 2, H319	[ii]	0 $\leq$ x % < 1
BRONOPOL (INN)	GHS05, GHS07, GHS09 Dgr Acute Tox. 4, H312 Acute Tox. 4, H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 M Acute = 10		0 $\leq$ x % < 1

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INDEX: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9 REACH: 01-2120761540-60 1,2-BENZISOTHIAZOL-3(2H)-ONE	GHS06, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0 <= x % < 0.036
INDEX: 613-336-00-3 CAS: 2527-66-4 2-METHYL-1,2-BENZOTHAZOL-3(2H)-ONE	GHS06, GHS05, GHS09 Dgr Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1 EUH071		0 <= x % < 0.0015
INDEX: 613-167-00-5 CAS: 55965-84-9 REACH: 01-2120764691-48 MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ; 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)	GHS06, GHS05, GHS09 Dgr Acute Tox. 3, H301 Acute Tox. 2, H310 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 M Acute = 100 Aquatic Chronic 1, H410 M Chronic = 100 EUH071	B	0 <= x % < 0.0015

> Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 97489-15-1 EC: 307-055-2 REACH: 01-2119489924-20 SULFONIC ACIDS, C14-17 SEC-ALKANE, SODIUM SALTS	Eye Dam. 1: H318 C>= 15% Eye Irrit. 2: H319 10% <= C < 15%	
INDEX: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0 REACH: 01-2119475108-36 2-BUTOXYETHANOL		inhalation: ATE = 3 mg/l 4h (vapours) oral: ATE = 1200 mg/kg BW
CAS: 141-43-5 EC: 205-483-3 REACH: 01-21194866455-28 2-AMINOETHANOL	STOT SE 3: H335 C>= 5%	inhalation: ATE = 11 mg/l 4h (vapours) dermal: ATE = 1100 mg/kg BW oral: ATE = 1089 mg/kg BW
INDEX: 607-620-00-6 CAS: 5064-31-3 EC: 225-768-6 TRISODIUM NITRILOTRIACETATE	Carc. 2: H351 C>= 5%	
INDEX: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9 REACH: 01-2120761540-60 1,2-BENZISOTHIAZOL-3(2H)-ONE	Skin Sens. 1A: H317 C>= 0.036%	inhalation: ATE = 0.21 mg/l 4h (dust/mist) oral: ATE = 450 mg/kg BW
INDEX: 613-336-00-3 CAS: 2527-66-4 2-METHYL-1,2-BENZOTHAZOL-3(2H)-ONE	Skin Sens. 1A: H317 C>= 0.0015%	dermal: ATE = 1100 mg/kg BW oral: ATE = 175 mg/kg BW

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INDEX: 613-167-00-5 CAS: 55965-84-9 REACH: 01-2120764691-48 MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ; 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)	Skin Corr. 1C: H314 C>= 0.6% Skin Irrit. 2: H315 0.06% <= C < 0.6% Eye Dam. 1: H318 C>= 0.6% Eye Irrit. 2: H319 0.06% <= C < 0.6% Skin Sens. 1A: H317 C>= 0.0015%	
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Information on ingredients :

(Full text of H-phrases: see section 16)

- [i] Substance for which maximum workplace exposure limits are available.
- [ii] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

>SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures**In the event of exposure by inhalation :**

In the event of an allergic reaction, seek medical attention.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

> In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.

>SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media**> Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

> Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)

INTENSIVE CLEANER**5.3. Advice for firefighters**

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

>SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

> 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

> Fire prevention :

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

> Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture at all times.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

> Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

>SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limits :**

- European Union :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
111-76-2	98	20	246	50	-
2-BUTOXYETHANOL					

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141-43-5 2-AMINOETHANOL	2.5	1	7.6	3	-
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- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
111-76-2 2-BUTOXYETHANOL	20 ppm 97 mg/m3				
141-43-5 2-AMINOETHANOL	3 ppm 8 mg/m3	6 ppm 15 mg/m3			

- Ireland :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
111-76-2 2-BUTOXYETHANOL	20 ppm 98 mg/m3	50 ppm 246 mg/m3			
141-43-5 2-AMINOETHANOL	1 ppm 2.5 mg/m3	3 ppm 7.6 mg/m3			

- UK :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
111-76-2 2-BUTOXYETHANOL	25 ppm 123 mg/m3	50 ppm 246 mg/m3			
141-43-5 2-AMINOETHANOL	1 ppm 2.5 mg/m3	3 ppm 7.6 mg/m3			

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

2-AMINOETHANOL (CAS: 141-43-5)

>	Final use:	Workers.
	Exposure method:	Dermal contact.
	Potential health effects:	Long term systemic effects.
	DNEL :	1 mg/kg body weight/day
	Exposure method:	Dermal contact.
	Potential health effects:	Short term systemic effects.
	DNEL :	3 mg/kg body weight/day
	Exposure method:	Inhalation.
	Potential health effects:	Long term systemic effects.
	DNEL :	3.3 mg of substance/m3
	Exposure method:	Inhalation.
	Potential health effects:	Long term local effects.
	DNEL :	1 mg of substance/m3
>	Exposure method:	Inhalation.
	Potential health effects:	Long term local effects.
	DNEL :	0.51 mg of substance/m3
	Final use:	Consumers.
	Exposure method:	Ingestion.
	Potential health effects:	Long term systemic effects.
	DNEL :	1.5 mg/kg body weight/day
	Exposure method:	Dermal contact.
	Potential health effects:	Long term systemic effects.
	DNEL :	0.24 mg/kg body weight/day
	Exposure method:	Inhalation.
	Potential health effects:	Long term systemic effects.
	DNEL :	0.18 mg of substance/m3

SULFONIC ACIDS, C14-17 SEC-ALKANE, SODIUM SALTS (CAS: 97489-15-1)

Final use:	Workers.
Exposure method:	Dermal contact.
Potential health effects:	Short term local effects.
DNEL :	2.8 mg of substance/cm2
Exposure method:	Dermal contact.

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Potential health effects:
DNEL : Long term systemic effects.
5 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL : Dermal contact.
Long term local effects.
2.8 mg of substance/cm2

Exposure method:
Potential health effects:
DNEL : Inhalation.
Long term systemic effects.
35 mg of substance/m3

Final use:

Exposure method:
Potential health effects:
DNEL : **Consumers.**
Ingestion.
Long term systemic effects.
7.1 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL : Dermal contact.
Short term local effects.
2.8 mg of substance/cm2

Exposure method:
Potential health effects:
DNEL : Dermal contact.
Long term systemic effects.
3.57 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL : Dermal contact.
Long term local effects.
2.8 mg of substance/cm2

Exposure method:
Potential health effects:
DNEL : Inhalation.
Long term systemic effects.
12.4 mg of substance/m3

|> Predicted no effect concentration (PNEC):**2-AMINOETHANOL (CAS: 141-43-5)**

Environmental compartment:
PNEC : Soil.
1.29 mg/kg

Environmental compartment:
PNEC : Fresh water.
0.07 mg/l

Environmental compartment:
PNEC : Sea water.
0.007 mg/l

Environmental compartment:
PNEC : Intermittent waste water.
0.028 mg/l

Environmental compartment:
PNEC : Fresh water sediment.
0.357 mg/kg

Environmental compartment:
PNEC : Marine sediment.
0.036 mg/kg

Environmental compartment:
PNEC : Waste water treatment plant.
100 mg/l

SULFONIC ACIDS, C14-17 SEC-ALKANE, SODIUM SALTS (CAS: 97489-15-1)

Environmental compartment:
PNEC : Soil.
9.4 mg/kg

Environmental compartment:
PNEC : Fresh water.
0.04 mg/l

Environmental compartment:
Sea water.

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PNEC :	0.004 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 9.4 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.94 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 600 mg/l

8.2. Exposure controls**Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard ISO 16321.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

|> - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- PVA (Polyvinyl alcohol)

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

|>SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****Physical state**

Physical state : Fluid liquid.

Colour

Colorless

Odour

Odour threshold : Not stated.

low odour

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Melting point/melting range : Not specified.

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not specified.

> Flammability

Flammability (solid, gas) : Not stated.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

Flash point

Flash Point Interval : FP > 100°C.

Auto-ignition temperature

Self-ignition temperature : Not specified.

> Decomposition temperature

Decomposition point/decomposition range : Not specified.

> pH

pH : Not stated.

Neutral.

pH (aqueous solution) : Not stated.

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Dilutable.

Fat solubility : Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

Vapour pressure

Vapour pressure (50°C) : Above 300 kPa (3 bar).

Density and/or relative density

Density : > 1

Relative vapour density

Vapour density : Not stated.

Particle characteristics

The mixture does not contain nanoforms.

9.2. Other information

No data available.

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

>SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

> 10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Avoid :

- frost

10.5. Incompatible materials

No data available.

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10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

>SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****11.1.1. Substances****a) Acute toxicity :**

2-METHYL-1,2-BENZOTHAZOL-3(2H)-ONE (CAS: 2527-66-4)

Oral route : LD50 = 175 mg/kg body weight

Dermal route : LD50 = 1100 mg/kg body weight

1,2-BENZISOTHAZOL-3(2H)-ONE (CAS: 2634-33-5)

Oral route : LD50 = 450 mg/kg body weight

Inhalation route (Dusts/mist) : LC50 = 0.21 mg/l
Duration of exposure : 4 h

2-AMINOETHANOL (CAS: 141-43-5)

Oral route : LD50 = 1089 mg/kg body weight
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 = 1100 mg/kg body weight

Inhalation route (Vapours) : LC50 = 11 mg/l
Duration of exposure : 4 h

POLY(OXY-1,2-ETHANEDIY1), .ALPHA.-(2-PROPYLHEPTYI)-.OMEGA.-HYDROXY- (CAS: 160875-66-1)

Oral route : 300 < LD50 <= 2000 mg/kg
Species : Rat
OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method)

2-BUTOXYETHANOL (CAS: 111-76-2)

Oral route : LD50 = 1200 mg/kg body weight

Inhalation route (Vapours) : LC50 = 3 mg/l
Duration of exposure : 4 h

> b) Skin corrosion/skin irritation :

2-AMINOETHANOL (CAS: 141-43-5)

Corrosivity : Causes severe skin burns.
Species : Rabbit
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

> c) Serious damage to eyes/eye irritation :

2-AMINOETHANOL (CAS: 141-43-5)

Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

d) Respiratory or skin sensitisation :

No data available.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

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h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

No data available.

11.1.2. Mixture

11.1.2.1 Information on hazard classes

|> a) Acute toxicity :

Oral route : No data available.

Dermal route : No data available.

Inhalation route (Dusts/mist) : No data available.

|> b) Skin corrosion/skin irritation :

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

c) Serious damage to eyes/eye irritation :

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

d) Respiratory or skin sensitisation :

Contains at least one sensitising substance. May cause an allergic reaction.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

No data available.

11.1.2.2 Other information

|> Symptoms related to the physical, chemical and toxicological characteristics

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

11.2. Information on other hazards

No other hazards known according to Regulation (EC) No 1272/2008

Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

|>SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

POLY(OXY-1,2-ETHANEDIY1), .ALPHA.-(2-PROPYLHEPTYI)-.OMEGA.-HYDROXY- (CAS: 160875-66-1)

Fish toxicity : NOEC > 1 mg/l

Crustacean toxicity : EC50 = 100 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

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Algae toxicity :
NOEC > 1 mg/l
Species : *Daphnia magna*
ECr50 = 100 mg/l
Species : *Scenedesmus subspicatus*
Duration of exposure : 72 h

2-AMINOETHANOL (CAS: 141-43-5)
Fish toxicity :
LC50 = 170 mg/l
Species : *Carassius auratus*
Duration of exposure : 96 h
Other guideline

Crustacean toxicity :
NOEC = 1.2 mg/l
Species : *Oryzias latipes*
Duration of exposure : 28 days
EC50 = 65 mg/l
Species : *Daphnia magna*
Duration of exposure : 48 h
Other guideline

Algae toxicity :
NOEC = 0.85 mg/l
Species : *Daphnia magna*
Duration of exposure : 21 days
OECD Guideline 211 (*Daphnia magna* Reproduction Test)
ECr50 = 22 mg/l
Species : *Scenedesmus subspicatus*
Duration of exposure : 72 h
Other guideline

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

POLY(OXY-1,2-ETHANEDIY1), .ALPHA.-(2-PROPYLHEPTYI)-.OMEGA.-HYDROXY- (CAS: 160875-66-1)
Biodegradability : Rapidly degradable.

2-AMINOETHANOL (CAS: 141-43-5)
Five-day biochemical oxygen demand : DBO5 800 g/kg
Biodegradability : Rapidly degradable.

12.3. Bioaccumulative potential

|> 12.3.1. Substances

2-AMINOETHANOL (CAS: 141-43-5)
Octanol/water partition coefficient : log K_{ow} = 2.3
OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.

12.7. Other adverse effects

No data available.

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German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 2 : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :

15 01 10 * packaging containing residues of or contaminated by dangerous substances

07 06 01 * aqueous washing liquids and mother liquors

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number or ID number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Maritime transport in bulk according to IMO instruments

-

>SECTION 15 : REGULATORY INFORMATION

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

> Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2024/2564. (ATP 22)

Container information:

No data available.

Particular provisions :

No data available.

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):
<https://echa.europa.eu/substances-restricted-under-reach>.

> Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006: <https://echa.europa.eu/fr/authorisation-list>.

> Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol) :

The mixture does not contain any substance posing a risk to the ozone layer.

Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

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> PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The mixture is not subject to the Prior Informed Consent (PIC) procedure.

Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

> Labelling for detergents (EC Regulation No. 648/2004,907/2006) :

- 15 % or over but less than 30 % : anionic surfactants
- 5 % or over but less than 15 % : non-ionic surfactants
- less than 5 % : NTA (nitrilotriacetic acid) and salts thereof
- perfumes
- preservatives
- 2-bromo-2-nitropropane-1,3-diol
- benzisothiazolinone
- mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one ; 2-methyl-2h-isothiazol-3-one (3:1)
- 2-methyl-1,2-benzothiazol-3(2h)-one
- dithiomethylbenzamide

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 2 : Hazardous for water.

Swiss ordinance on the incentive tax on volatile organic compounds :

- | | |
|----------|---------------------------------------|
| 111-76-2 | 2-n-butoxyéthanol |
| 138-86-3 | DL-limonène ([RS]-p-mentha-1,8-diene) |

15.2. Chemical safety assessment

No data available.

>SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

> Wording of the phrases mentioned in section 3 :

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

> Abbreviations and acronyms :

- LD50 : The dose of a test substance resulting in 50% lethality in a given time period.
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.
EC50 : The effective concentration of substance that causes 50% of the maximum response.
ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.
NOEC : The concentration with no observed effect.
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.
ATE : Acute Toxicity Estimate

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BW : Body Weight
DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
CMR: Carcinogenic, mutagenic or reprotoxic.
UFI : Unique formulation identifier.
STEL : Short-term exposure limit
TWA : Moyenne pondérée dans le temps
TLV : Threshold Limit Value (exposure)
AEV : Average Exposure Value.
ADR : European agreement concerning the international carriage of dangerous goods by Road.
GHS05 : Corrosion
IATA : International Air Transport Association.
IMDG : International Maritime Dangerous Goods.
ICAO : International Civil Aviation Organisation
PBT: Persistent, bioaccumulable and toxic.
PIC: Prior Informed Consent.
POP: Persistent Organic Pollutant.
RID : Regulations concerning the International carriage of Dangerous goods by rail.
SVHC : Substances of very high concern.
AK-erteK : Permissible average concentration
WGK : Wassergefährdungsklasse (Water Hazard Class).
> Modification compared to the previous version