

OWATROL POLYTROL - poly01hcs



SAFETY DATA SHEET

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

**1.1. Product identifier**

Product name : OWATROL POLYTROL

Product code : poly01hcs.

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

All supports restorer - Gloss restorer

**1.3. Details of the supplier of the safety data sheet**

Registered company name : DURIEU S.A.: Siège Social.

Address : 2 bis, rue Charles de Gaulle.91070.BONDOUFLE.FRANCE.

Telephone : + 33 (0)1.60.86.48.70. Fax : + 33 (0)1.60.86.84.84.

reglementaire@durieu.com

www.durieu.com

**1.4. Emergency telephone number : + 33 (0)1.45.42.59.59.**

Association/Organisation : INRS / ORFILA www.centres-antipoison.net.

**Other emergency numbers**

UNITED KINGDOM :UK National poisons emergency number: +44 (0) 870 600 6266 IRELAND, EIRE: Ireland National Poisons Information Centre: +353 (0) 1 8379964 AUSTRALIA: Poison Information Centre: 131 126 NEW ZEALAND: Poison Information Centre 0 800 764 766:

SECTION 2 : HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture**

**HCS compliant.**

Flammable liquid, Category 4 (Flam. Liq. 4).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

**2.2. Label elements**

**HCS compliant.**

Signal Word :

WARNING

Hazard statements :

H227 Combustible liquid.

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements - Prevention :

P260 Do not breathe dust vapours.

P262 Do not get in eyes, on skin, or on clothing.

Precautionary statements - Response :

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Precautionary statements - Disposal :

P501 Dispose of contents / container in a waste collection point.

**2.3. Other hazards**

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**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**Composition :**

Identification	Classification HCS	Nota	%
INDEX: PCP186 CAS: 64742-48-9 EC: 918-481-9 REACH: 01-2119457273-39-XXXX  HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS	GHS08 Dgr Asp. Tox. 1, H304		25 <= x % < 50
INDEX: 298 CAS: 1189173-42-9 EC: 918-811-1 REACH: 01-2119463583-34-XXXX  HYDROCARBONS, C10, AROMATICS, <1% NAPHTALENE	GHS07, GHS08 Dgr Asp. Tox. 1, H304 STOT SE 3, H336 Flam. Liq. 4, H227		2.5 <= x % < 10
INDEX: 603-053-00-3 CAS: 107-41-5 EC: 203-489-0 REACH: 01-2119539582-35  2-METHYLPENTANE-2,4-DIOL	GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315	[1]	0.1 <= x % < 0.5
INDEX: 350 CAS: 128-37-0 EC: 204-881-4 REACH: 01-2119565113-46-XXXX  2,6-DI-TERT-BUTYL-P-CRESOL		[1]	0 <= x % < 0.05

**Information on ingredients :**

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

[1] Substance for which maximum workplace exposure limits are available.

**Other data :**

According to Note 4 of Directive 2001/59/CE the preparation is not considered as non viscous (fluid).

**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 splashes or contact with eyes :**

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

**In the event of swallowing :**

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, 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**

Combustible liquid.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

This product is not classed as flammable.

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**5.1. Extinguishing media**

In the event of fire, use specifically suitable extinguishing agents. Never use water.

Keep packages near the fire cool, to prevent pressurised containers from bursting.

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO<sub>2</sub>)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

**Unsuitable methods of extinction**

Direct 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 (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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**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**

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

**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**

Clean preferably with a detergent, do not use solvents.

Although this product is not flammable, rags soaked in it, may spontaneously ignite if improperly discarded. After use, put rags in water or lay rags out flat to dry before discarding.

**6.4. Reference to other sections**

No data available.

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**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.

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

Keep containers tightly closed.

**Fire prevention :**

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

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The mixture can become electrostatically charged: always ground when decanting. Wear antistatic shoes and clothing and make floors of non-conductive

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

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.

Never pour water into this mixture.

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**

Do not keep in plastic containers - may soften plastic.

Part used containers must be properly closed and kept in upright position.

Stock between +5°C and +30°C in a dry, well ventilated place.

**Storage**

Keep out of reach of children.

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

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

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.

Recommended types of packaging :

- Vats
- Drums
- Buckets

Suitable packaging materials :

- Coated steel
- Steel

Unsuitable packaging materials :

- Plastic

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m <sup>3</sup> :	VLE-ppm :	VLE-mg/m <sup>3</sup> :	Notes :	TMP No :
107-41-5	-	-	25	125	-	84
128-37-0	-	10	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
107-41-5	25 ppm 123 mg/m <sup>3</sup>	25 ppm 123 mg/m <sup>3</sup>			
128-37-0	10 mg/m <sup>3</sup>				

**8.2. Exposure controls**

**Personal protection measures, such as personal protective equipment**

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.

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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 in accordance with standard EN166.

### - Hand protection

Type of gloves recommended :

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

- PVA (Polyvinyl alcohol)

Permeability time : >480 min for a thickness >0.45 mm

### - Body protection

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.

### - Respiratory protection

Type of FFP mask :

Wear a disposable half-mask aerosol filter in accordance with standard EN149/A1.

Category :

- FFP2

Type of mask with combined filters :

Wear a half mask in accordance with standard EN140.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

- AX (Brown)

Particle filter according to standard EN143 :

- P2 (White)

CEN recommendations : EN 136, EN 140, EN 405 for masks and EN 143, EN 149 for filters.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

No data available.

#### Physical state

Physical state : Fluid liquid.

#### Colour

Colour : Amber

#### Odour

Odour threshold : Not stated.

#### Melting point

Melting point/melting range : Not relevant.

#### Freezing point

Freezing point / Freezing range : Not stated.

#### Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not relevant.

#### 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.

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**Flash point**

Flash Point Interval : 60°C (140 °F) < FP <= 93°C (199,4 °F)  
Flash Point : 61.00 °C.

**Auto-ignition temperature**

Self-ignition temperature : Not relevant.

**Decomposition temperature**

Decomposition point/decomposition range : Not relevant.

**pH**

pH (aqueous solution) : Not stated.  
pH : Not relevant.

**Kinematic viscosity**

Viscosity :  $\nu > 20.5 \text{ mm}^2/\text{s}$  (40°C)  
Method for determining the viscosity :  
ISO 3104 (Petroleum products - Transparent and opaque liquids -  
Determination of kinematic viscosity and calculation of dynamic viscosity).

**Solubility**

Water solubility : Insoluble.  
Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

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

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : < 1

**Relative vapour density**

Vapour density : Not stated.

**9.2. Other information**

VOC (g/l) : 460  
% VOC : <55%

**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**

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- accumulation of electrostatic charges.
- flames and hot surfaces
- humidity

Protect from moisture. Reaction with water can cause an exothermic reaction.

Keep away from corrosive agents such as strong acids or alkalines to avoid possible leakage or self combustion.

Always stock in its original packaging. Do not transfer in another package.

**10.5. Incompatible materials**

Keep away from :

- water

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**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Splashes in the eyes may cause irritation and reversible damage

**11.1.1. Substances**

**Acute toxicity :**

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE (CAS: 1189173-42-9)

Oral route : LD50 > 5000 mg/kg bodyweight/day  
Species : Rat  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 2000 mg/kg bodyweight/day  
Species : Rabbit  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Vapours) : LC50 = 4.688 mg/l  
Species : Rat  
OECD Guideline 403 (Acute Inhalation Toxicity)  
Duration of exposure : 4 h

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

Oral route : LD50 > 5000 mg/kg bodyweight/day  
Species : Rat  
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 5000 mg/kg bodyweight/day  
Species : Rabbit  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Vapours) : LC50 > 5000 mg/l  
Species : Rat  
OECD Guideline 403 (Acute Inhalation Toxicity)

**Germ cell mutagenicity :**

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE (CAS: 1189173-42-9)

No mutagenic effect.

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

No mutagenic effect.

**Carcinogenicity :**

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE (CAS: 1189173-42-9)

Carcinogenicity Test : Negative.  
No carcinogenic effect.

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

Carcinogenicity Test : Negative.  
No carcinogenic effect.

**Reproductive toxicant :**

HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE (CAS: 1189173-42-9)

No toxic effect for reproduction

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OECD Guideline 414 (Prenatal Developmental Toxicity Study)

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

No toxic effect for reproduction

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

**11.1.2. Mixture**

**11.2. Information on other hazards**

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 128-37-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

**SECTION 12 : ECOLOGICAL INFORMATION**

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity**

Do not leave this product, not diluted or in great quantity, penetrate the ground water, waters or the drains.

**12.1.1. Substances**

HYDROCARBONS, C10, AROMATICS, <1% NAPHTALENE (CAS: 1189173-42-9)

Fish toxicity : Species : Perca fluviatilis

Crustacean toxicity : EC50 <= 10 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

Algae toxicity : ECr50 = 11 mg/l  
Species : Pseudokirchnerella subcapitata  
Duration of exposure : 72 h

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

Fish toxicity : LC50 = 1000 mg/l  
Species : Oncorhynchus mykiss  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 1000 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

Algae toxicity : ECr50 = 1000 mg/l  
Species : Pseudokirchnerella subcapitata  
Duration of exposure : 72 h

**12.1.2. Mixtures**

No aquatic toxicity data available for the substances.

**12.2. Persistence and degradability**

**12.2.1. Substances**

HYDROCARBONS, C10, AROMATICS, <1% NAPHTALENE (CAS: 1189173-42-9)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

Biodegradability : Rapidly degradable.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

Contains volatile products that will disperse in air.

Contains a solid phase.

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**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

The appropriate waste management of the mixture and/or its container must be determined in accordance with local regulations.

Dirty sheets can be burnt but should not be stocked nor thrown into a bin. They should be spread out and dried before. This product dries with air contact producing an exothermic reaction. Danger of auto-ignition if these precautions are not respected.

**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.

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**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number**

-

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

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**14.6. Special precautions for user**

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

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**SECTION 15 : REGULATORY INFORMATION**

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

The following regulations have been used:

- OSHA Hazard Communication Standard 29 CFR 1910.1200

**Container information:**

No data available.

**Particular provisions :**

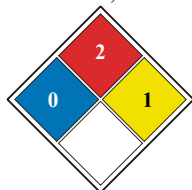
No data available.

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**- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704)**

:

NFPA 704, Labelling: Health=0 Inflammability=2 Instability/Reactivity=1 Specific Risk=none



**- Clean Water Act : Toxic Pollutants (CWA 307A)**

Unlisted.

**- Clean Water Act : Hazardous Substances (CWA 311)**

Unlisted.

**- Clean Water Act : Hazardous Substances (CWA 304b)**

Unlisted.

**- Clean Water Act : Priority Pollutants (CWA Priority)**

Unlisted.

**- Clean Air Act : Hazardous Air Pollutants (CAA 112(b) HAP (188))**

Unlisted.

**- Clean Air Act : Organic Hazardous Air Pollutants National Emission Standards (CAA 112(b) HON (387))**

Unlisted.

**- Clean Air Act : Protection of Stratospheric Ozone (CAA 602)**

Unlisted.

**- SARA 110**

Unlisted.

**- SARA 302/304**

Unlisted.

**- SARA 313**

Unlisted.

**- California proposition 65 : Chemicals known to the state to cause cancer or reproductive toxicity**

Unlisted.

**- Massachusetts : Right to Know**

CAS	Name
107-41-5	2-METHYLPENTANE-2,4-DIOL

**- New Jersey : Right to Know**

CAS	Name
128-37-0	2,6-DI-TERT-BUTYL-P-CRESOL
107-41-5	2-METHYLPENTANE-2,4-DIOL

**- Pennsylvania : Hazardous Substance**

CAS	Name
128-37-0	2,6-DI-TERT-BUTYL-P-CRESOL
107-41-5	2-METHYLPENTANE-2,4-DIOL

**- Rhode Island : Hazardous substance list**

CAS	Name
128-37-0	2,6-DI-TERT-BUTYL-P-CRESOL
107-41-5	2-METHYLPENTANE-2,4-DIOL

**- TSCA (Toxic Substances Control Act) - USA**

CAS	Name
67762-15-6	ALKYD RESIN
67746-08-1	HUILE DE LIN
64742-48-9	HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS
27253-32-3	MANGANESE NEODECANOATE
128-37-0	2,6-DI-TERT-BUTYL-P-CRESOL
107-41-5	2-METHYLPENTANE-2,4-DIOL

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**15.2. Chemical safety assessment**

No data available.

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**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 :**

H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

**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.  
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.  
STEL : Short-term exposure limit  
TWA : Time Weighted Averages  
TMP : French Occupational Illness table  
TLV : Threshold Limit Value (exposure)  
AEV : Average Exposure Value.  
ADR : European agreement concerning the international carriage of dangerous goods by Road.  
IMDG : International Maritime Dangerous Goods.  
IATA : International Air Transport Association.  
ICAO : International Civil Aviation Organisation  
RID : Regulations concerning the International carriage of Dangerous goods by rail.  
PBT: Persistent, bioaccumulable and toxic.  
vPvB : Very persistent, very bioaccumulable.  
HCS : Hazard Communication standard (OSHA).