WETOR 2310 - POLYMERIZATION LIQUID FOR HEADLIGHT

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

1.1 Product identifier: WETOR 2310 - POLYMERIZATION LIQUID FOR HEADLIGHT

Art. F3964 893 104

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

Relevant uses:

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Wetor, Car Repair Products, Lda
Rua das Indústrias, Lote 12, Parque Industrial de Frossos
4700-110 Braga - Portugal
Phone.: (+351) 253 300 340 - Fax: (+351) 253 625 560
info@wetor.eu
www.wetor.eu

1.4 Emergency telephone number:

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Carc. 2: Carcinogenicity, Category 2, H351
STOT RE 1: Specific target organ toxicity by inhalation, repeated exposure, Category 1, H372

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger

Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
Carc. 2: H351 - Suspected of causing cancer
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation)

Precautionary statements:

P201+P202: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood
P260: Do not breathe dust/fume/gas/mist/vapours/spray
P264: Wash thoroughly after handling
P273: Avoid release to the environment
P301+P330: IF SWALLOWED: Rinse mouth
P304+P312: IF INHALED: Call a POISON CENTER/doctor if you feel unwell
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Supplementary information:

EUH208: Contains 4-aminobenzoic acid, Dipentene. May produce an allergic reaction

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Chemical description:

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 75-09-2 EC: 200-838-9 Index: 602-004-00-3 REACH: 01-2119480404-41-XXXX	**Dichloromethane**[1]	ATP CLP00	**60 - <80 %**
	Regulation 1272/2008	Carc. 2: H351 - Warning	
CAS: 5949-29-1 EC: 201-069-1 Index: Non-applicable REACH: 01-2119457026-42-XXXX	**Citric Acid monohidrated**[1]	Self-classified	**<5 %**
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	
CAS: 67-64-1 EC: 200-662-2 Index: 606-001-00-8 REACH: 01-2119471330-49-XXXX	**Acetone**[1]	ATP CLP00	**<5 %**
	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	
CAS: 56-23-5 EC: 200-262-8 Index: 602-008-00-5 REACH: 01-2119486131-44-XXXX	**Carbon tetrachloride**[1]	ATP CLP00	**<5 %**
	Regulation 1272/2008	Acute Tox. 3: H301+H311+H331; Aquatic Chronic 3: H412; Carc. 2: H351; Ozone 1: H420; STOT RE 1: H372 - Danger	
CAS: 138-86-3 EC: 205-341-0 Index: 601-029-00-7 REACH: Non-applicable	**Dipentene**[1]	ATP CLP00	**<5 %**
	Regulation 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	
CAS: 150-13-0 EC: 205-753-0 Index: Non-applicable REACH: 01-2119939912-30-XXXX	**4-aminobenzoic acid**[1]	Self-classified	**<5 %**
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Warning	

[1] Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	Specific concentration limit
Carbon tetrachloride CAS: 56-23-5 EC: 200-262-8	% (w/w) >=1: STOT RE 1 - H372 0,2<= % (w/w) <1: STOT RE 2 - H373

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

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SECTION 4: FIRST AID MEASURES (continued)

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

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SECTION 7: HANDLING AND STORAGE (continued)

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 ºC

Maximum Temp.: 30 ºC

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

Identification	Environmental limits		
Dichloromethane	IOELV (8h)	100 ppm	353 mg/m³
CAS: 75-09-2 EC: 200-838-9	IOELV (STEL)	200 ppm	706 mg/m³
Acetone	IOELV (8h)	500 ppm	1210 mg/m³
CAS: 67-64-1 EC: 200-662-2	IOELV (STEL)		
Carbon tetrachloride	IOELV (8h)	1 ppm	6.4 mg/m³
CAS: 56-23-5 EC: 200-262-8	IOELV (STEL)	5 ppm	32 mg/m³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Dichloromethane	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 75-09-2	Dermal	Non-applicable	Non-applicable	4750 mg/kg	Non-applicable
EC: 200-838-9	Inhalation	706 mg/m³	Non-applicable	353 mg/m³	Non-applicable
Acetone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 67-64-1	Dermal	Non-applicable	Non-applicable	186 mg/kg	Non-applicable
EC: 200-662-2	Inhalation	Non-applicable	2420 mg/m³	1210 mg/m³	Non-applicable
Carbon tetrachloride	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 56-23-5	Dermal	Non-applicable	Non-applicable	0,91 mg/kg	Non-applicable
EC: 200-262-8	Inhalation	Non-applicable	Non-applicable	6,4 mg/m³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Dichloromethane	Oral	Non-applicable	Non-applicable	0,06 mg/kg	Non-applicable
CAS: 75-09-2	Dermal	Non-applicable	Non-applicable	2395 mg/kg	Non-applicable
EC: 200-838-9	Inhalation	353 mg/m³	Non-applicable	88,3 mg/m³	Non-applicable
Acetone	Oral	Non-applicable	Non-applicable	62 mg/kg	Non-applicable
CAS: 67-64-1	Dermal	Non-applicable	Non-applicable	62 mg/kg	Non-applicable
EC: 200-662-2	Inhalation	Non-applicable	Non-applicable	200 mg/m³	Non-applicable
Carbon tetrachloride	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 56-23-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-262-8	Inhalation	Non-applicable	Non-applicable	1,6 mg/m³	Non-applicable

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

PNEC:

Identification				
Dichloromethane	STP	26 mg/L	Fresh water	0,54 mg/L
CAS: 75-09-2	Soil	0,583 mg/kg	Marine water	0,194 mg/L
EC: 200-838-9	Intermittent	0,27 mg/L	Sediment (Fresh water)	4,47 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	1,61 mg/kg
Citric Acid monohidrated	STP	1000 mg/L	Fresh water	0,44 mg/L
CAS: 5949-29-1	Soil	33,1 mg/kg	Marine water	0,044 mg/L
EC: 201-069-1	Intermittent	Non-applicable	Sediment (Fresh water)	34,6 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	3,46 mg/kg
Acetone	STP	100 mg/L	Fresh water	10,6 mg/L
CAS: 67-64-1	Soil	29,5 mg/kg	Marine water	1,06 mg/L
EC: 200-662-2	Intermittent	21 mg/L	Sediment (Fresh water)	30,4 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	3,04 mg/kg
Carbon tetrachloride	STP	30 mg/L	Fresh water	0,22 mg/L
CAS: 56-23-5	Soil	Non-applicable	Marine water	0,022 mg/L
EC: 200-262-8	Intermittent	0,2 mg/L	Sediment (Fresh water)	Non-applicable
	Oral	0,222 g/kg	Sediment (Marine water)	Non-applicable

8.2 Exposure controls:

A.- General security and hygiene measures in the work place

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.
All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	CE CAT III	EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	NON-disposable chemical protective gloves	CE CAT III	EN ISO 374-1:2016 EN 16523-1:2015 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face shield	CE CAT II	EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	CE CAT III	EN 13034:2005+A1:2009 EN 168:2001 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer´s instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	CE CAT III	EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	63 % weight
V.O.C. density at 20 ºC:	750,84 kg/m³ (750,84 g/L)
Average carbon number:	1,48
Average molecular weight:	88,96 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 ºC:	Liquid
Appearance:	Fluid
Colour:	Blue
Odour:	Not available
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	52 ºC
Vapour pressure at 20 ºC:	14213 Pa
Vapour pressure at 50 ºC:	47246 Pa (47,25 kPa)
Evaporation rate at 20 ºC:	Non-applicable *

Product description:

Density at 20 ºC:	1192 kg/m³
Relative density at 20 ºC:	1,25 - 1,35
Dynamic viscosity at 20 ºC:	0,86 cP
Kinematic viscosity at 20 ºC:	0,72 cSt
Kinematic viscosity at 40 ºC:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 ºC:	Non-applicable *
Solubility in water at 20 ºC:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Flammability:	
Flash Point:	Non Flammable (>60 ºC)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	255 ºC
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *
Explosive:	
Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *

9.2 Other information:

Surface tension at 20 ºC:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.
  IARC: Dichloromethane (2A); Carbon tetrachloride (2B); 4-aminobenzoic acid (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Serious health effects in the case of prolonged inhalation, including death, serious functional disorders or morphological changes of toxicological importance.
- Skin: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Acetone	LD50 oral	5800 mg/kg	Rat
CAS: 67-64-1	LD50 dermal	7426 mg/kg	Rabbit
EC: 200-662-2	LC50 inhalation	76 mg/L (4 h)	Rat

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
Carbon tetrachloride	LD50 oral	100 mg/kg	Rat
CAS: 56-23-5	LD50 dermal	300 mg/kg (ATEi)	Rat
EC: 200-262-8	LC50 inhalation	3 mg/L (4 h) (ATEi)	
Citric Acid monohidrated	LD50 oral	3000 mg/kg	Rat
CAS: 5949-29-1	LD50 dermal	5500 mg/kg	Rat
EC: 201-069-1	LC50 inhalation	Non-applicable	
Dichloromethane	LD50 oral	Non-applicable	
CAS: 75-09-2	LD50 dermal	Non-applicable	
EC: 200-838-9	LC50 inhalation	86 mg/L (4 h)	Rat
4-aminobenzoic acid	LD50 oral	2850 mg/kg	Mouse
CAS: 150-13-0	LD50 dermal	Non-applicable	
EC: 205-753-0	LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Identification	Acute toxicity		Species	Genus
Dichloromethane	LC50	330 mg/L (96 h)	Pimephales promelas	Fish
CAS: 75-09-2	EC50	270 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-838-9	EC50	2300 mg/L (3 h)	Chlorella vulgaris	Algae
Citric Acid monohidrated	LC50	1516 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 5949-29-1	EC50	120 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-069-1	EC50	Non-applicable		
Acetone	LC50	5540 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 67-64-1	EC50	23.5 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-662-2	EC50	3400 mg/L (48 h)	Chlorella pyrenoidosa	Algae
Carbon tetrachloride	LC50	27 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 56-23-5	EC50	29 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-262-8	EC50	Non-applicable		
Dipentene	LC50	38.5 mg/L (96 h)	Pimephales promelas	Fish
CAS: 138-86-3	EC50	0.7 mg/L (48 h)	Daphnia magna	Crustacean
EC: 205-341-0	EC50	1.6 mg/L (48 h)	Selenastrum capricornutum	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Dichloromethane	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 75-09-2	COD	Non-applicable	Period	28 days
EC: 200-838-9	BOD5/COD	Non-applicable	% Biodegradable	13 %
Citric Acid monohidrated	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 5949-29-1	COD	Non-applicable	Period	5 days
EC: 201-069-1	BOD5/COD	Non-applicable	% Biodegradable	72 %
Acetone	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 67-64-1	COD	Non-applicable	Period	28 days
EC: 200-662-2	BOD5/COD	0.96	% Biodegradable	96 %
Dipentene	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 138-86-3	COD	Non-applicable	Period	14 days
EC: 205-341-0	BOD5/COD	Non-applicable	% Biodegradable	69 %
4-aminobenzoic acid	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 150-13-0	COD	Non-applicable	Period	28 days
EC: 205-753-0	BOD5/COD	Non-applicable	% Biodegradable	84 %

12.3 Bioaccumulative potential:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
Dichloromethane	BCF	6
CAS: 75-09-2	Pow Log	1.25
EC: 200-838-9	Potential	Low
Citric Acid monohidrated	BCF	3
CAS: 5949-29-1	Pow Log	-1.64
EC: 201-069-1	Potential	Low
Acetone	BCF	1
CAS: 67-64-1	Pow Log	-0.24
EC: 200-662-2	Potential	Low
Carbon tetrachloride	BCF	3
CAS: 56-23-5	Pow Log	2.83
EC: 200-262-8	Potential	Low
Dipentene	BCF	660
CAS: 138-86-3	Pow Log	4.57
EC: 205-341-0	Potential	High
4-aminobenzoic acid	BCF	3
CAS: 150-13-0	Pow Log	0.83
EC: 205-753-0	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Dichloromethane	Koc	Non-applicable	Henry	Non-applicable
CAS: 75-09-2	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 200-838-9	Surface tension	2,877E-2 N/m (25 ºC)	Moist soil	Non-applicable
Citric Acid monohidrated	Koc	3.1	Henry	4,3E-14 Pa·m³/mol
CAS: 5949-29-1	Conclusion	Very High	Dry soil	No
EC: 201-069-1	Surface tension	Non-applicable	Moist soil	No
Acetone	Koc	1	Henry	2,93 Pa·m³/mol
CAS: 67-64-1	Conclusion	Very High	Dry soil	Yes
EC: 200-662-2	Surface tension	2,304E-2 N/m (25 ºC)	Moist soil	Yes
Carbon tetrachloride	Koc	71	Henry	2796,57 Pa·m³/mol
CAS: 56-23-5	Conclusion	Very High	Dry soil	Yes
EC: 200-262-8	Surface tension	2,629E-2 N/m (25 ºC)	Moist soil	Yes
Dipentene	Koc	1300	Henry	3242,4 Pa·m³/mol
CAS: 138-86-3	Conclusion	Low	Dry soil	Yes
EC: 205-341-0	Surface tension	Non-applicable	Moist soil	Yes
4-aminobenzoic acid	Koc	67	Henry	3,85E-6 Pa·m³/mol
CAS: 150-13-0	Conclusion	High	Dry soil	No
EC: 205-753-0	Surface tension	Non-applicable	Moist soil	No

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP7 Carcinogenic

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

14.1	**UN number:**	Non-applicable
14.2	**UN proper shipping name:**	Non-applicable
14.3	**Transport hazard class(es):**	Non-applicable
	Labels:	Non-applicable
14.4	**Packing group:**	Non-applicable
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Special regulations:	Non-applicable
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

14.1	**UN number:**	Non-applicable
14.2	**UN proper shipping name:**	Non-applicable
14.3	**Transport hazard class(es):**	Non-applicable
	Labels:	Non-applicable
14.4	**Packing group:**	Non-applicable
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Special regulations:	Non-applicable
	EmS Codes:	
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
	Segregation group:	Non-applicable
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2019:

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SECTION 14: TRANSPORT INFORMATION (continued)

14.1	**UN number:**	Non-applicable
14.2	**UN proper shipping name:**	Non-applicable
14.3	**Transport hazard class(es):**	Non-applicable
	Labels:	Non-applicable
14.4	**Packing group:**	Non-applicable
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Physico-Chemical properties:	see section 9
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Contains Carbon tetrachloride

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Contains Carbon tetrachloride

Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ….):

Regulation (EU) No 98/2013 of the European Parliament and of the Council of 15 January 2013 on the marketing and use of explosives precursors: Contains Acetone. Product under the provisions of Article 9

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H302: Harmful if swallowed
H351: Suspected of causing cancer
H412: Harmful to aquatic life with long lasting effects
H372: Causes damage to organs through prolonged or repeated exposure (Inhalation)

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

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SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled
Aquatic Acute 1: H400 - Very toxic to aquatic life
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
Carc. 2: H351 - Suspected of causing cancer
Eye Irrit. 2: H319 - Causes serious eye irritation
Flam. Liq. 2: H225 - Highly flammable liquid and vapour
Flam. Liq. 3: H226 - Flammable liquid and vapour
Ozone 1: H420 - Harms public health and the environment by destroying ozone in the upper atmosphere
Skin Irrit. 2: H315 - Causes skin irritation
Skin Sens. 1: H317 - May cause an allergic skin reaction
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation)
STOT SE 3: H335 - May cause respiratory irritation
STOT SE 3: H336 - May cause drowsiness or dizziness

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

- END OF SAFETY DATA SHEET -