ULTRA FAST METAL BONDING ADHES
Code: 5006-001082

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

1.1 PRODUCT IDENTIFIER: ULTRA FAST METAL BONDING ADHES
UFI: EPY3-99GD-1J05-5111 Code: 5006-001082

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:
Intended uses (main technical functions): [X] Industrial [X] Professional [_] Consumers
ADHESIVE.
Sectors of use:
Professional uses (SU22).
Uses advised against:
This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as 'Intended or identified uses'.
Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:
Not restricted.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:
CAR REPAIR SYSTEM S.A.
Pol. Ind. 2 de Octubre. C/ Jose Muñoz, 6 - E-18320 - Santa Fe - Granada (Espa±a)
Phone: +34 95 8431792
E-mail address of the person responsible for the Safety Data Sheet:
info@carrepairsystem.eu

1.4 EMERGENCY TELEPHONE NUMBER: +34 95 8431792 (L-J 8:30-14 / 15-18 h. V 8:30-14:30 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:
Classification of mixtures is carried out in accordance with the following principles: a) when data (tests) for the classification of mixtures are available, generally is carried out based on these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture.

Classification in accordance with Regulation (EU) No. 1272/2008~2020/1182 (CLP):
DANGER: Flam. Liq. 2:H225 | Skin Irrit. 2:H315 | Eye Dam. 1:H318 | Skin Sens. 1:H317 | STOT SE (irrit.) 3:H335 | Aquatic Chronic 3:H412

Danger class	Classification of the mixture		Cat.	Routes of exposure	Target organs	Effects
Physicochemical: 	Flam. Liq. 2:H225	a)	Cat.2	-	-	-
	Skin Irrit. 2:H315	c)	Cat.2	Skin	Skin	Irritation
	Eye Dam. 1:H318	c)	Cat.1	Eyes	Eyes	Serious lesions
	Skin Sens. 1:H317	c)	Cat.1	Skin	Skin	Allergy
Human health: 	STOT SE (irrit.) 3:H335	c)	Cat.3	Inhalation	Respiratory tract	Irritation
	Aquatic Chronic 3:H412	c)	Cat.3	-	-	-
Environment:						

Full text of hazard statements mentioned is indicated in section 16.

Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.

2.2 LABEL ELEMENTS:

This product is labelled with the signal word DANGER in accordance with Regulation (EU) No. 1272/2008~2020/1182 (CLP)

Hazard statements:

H225	Highly flammable liquid and vapour.
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280F	Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection.
P363	Wash contaminated clothing before reuse.

P303+P361+P353-P352-P312	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338-P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
P273-P501a	Avoid release to the environment. Dispose of contents/container in accordance with local regulations.

Supplementary statements:
EUH208 Contains trimetylolpropane triacrylate ethoxylated(1-6). May produce an allergic reaction.

Substances that contribute to classification:
Methacrylic acid
Maleic acid
Rosin
Tosyl chloride

2.3 OTHER HAZARDS:
Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:
Other physicochemical hazards: In case the ventilation is not enough and there is an accumulation of vapors, may be form with air a mixture potentially flammable or explosive.
Other adverse human health effects: No other relevant adverse effects are known.
Other negative environmental effects: *# Does not contain substances that fulfil the PBT/vPvB criteria.*

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:
Not applicable (mixture).

3.2 MIXTURES:
This product is a mixture.
Chemical description:
ADHESIVE.

INGREDIENTS:

5 < 10 %	Methacrylic acid CAS: 79-41-4 , EC: 201-204-4 REACH: 01-2119463884-26 CLP: Danger: Acute Tox. (inh.) 4:H332 | Acute Tox. (skin) 3:H311 | Acute Tox. (oral) 4:H302 | Skin Corr. 1A:H314 | Eye Dam. 1:H318 | STOT SE (irrit.) 3:H335	Index No. 607-088-00-5 < REACH
5 < 10 %	Maleic acid CAS: 110-16-7 , EC: 203-742-5 REACH: 01-2119488705-25 CLP: Warning: Acute Tox. (skin) 4:H312 | Acute Tox. (oral) 4:H302 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | Skin Sens. 1:H317 | STOT SE (irrit.) 3:H335	Index No. 607-095-00-3 < REACH
2,5 < 5 %	Rosin CAS: 8050-09-7 , EC: 232-475-7 REACH: 01-2119480418-32 CLP: Warning: Skin Sens. 1:H317	Index No. 650-015-00-7 < REACH / CLP00
1 < 3 %	2,6-di-tert-butyl-p-cresol CAS: 128-37-0 , EC: 204-881-4 REACH: 01-2119555270-46 CLP: Warning: Aquatic Acute 1:H400 (M=1) | Aquatic Chronic 1:H410 (M=1)	Autoclassified < REACH
1 < 2 %	Tosyl chloride CAS: 98-59-9 , EC: 202-684-8 REACH: 01-2119971273-36 CLP: Danger: Met. Corr. 1:H290 | Skin Irrit. 2:H315 | Eye Dam. 1:H318 | Skin Sens. 1A:H317	Autoclassified < REACH
1 < 2 %	Trimetylolpropane triacrylate ethoxylated(1-6) CAS: 28961-43-5 , EC: 500-066-5 REACH: 01-2119489900-30 CLP: Warning: Eye Irrit. 2:H319 | Skin Sens. 1:H317	Autoclassified < REACH
1 < 2 %	Bis[2-(acryloyloxy)ethyl] hydrogen phosphate CAS: 40074-34-8 , EC: 254-783-0 CLP: Danger: Skin Irrit. 2:H315 | Eye Dam. 1:H318 | Skin Sens. 1B:H317	Autoclassified
1 < 2 %	2-(phosphonooxy)ethyl acrylate CAS: 32120-16-4 , EC: 250-927-1 CLP: Danger: Skin Irrit. 2:H315 | Eye Dam. 1:H318 | Skin Sens. 1B:H317	Autoclassified
1 < 2 %	a,a-dimethylbenzyl hydroperoxide CAS: 80-15-9 , EC: 201-254-7 CLP: Danger: Org. Perox. E:H242 | Acute Tox. (inh.) 3:H331 | Acute Tox. (skin) 4:H312 | Acute Tox. (oral) 4:H302 | Skin Corr. 1B:H314 | STOT RE 2:H373 | Aquatic Chronic 2:H411	Index No. 617-002-00-8 < CLP00

Impurities:
Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:
None

Reference to other sections:
For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):
List updated by ECHA on 08/07/2021.
Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:
None
Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:
None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:
Does not contain substances that fulfil the PBT/vPvB criteria.

SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES:

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation: 	Inhalation produces burning sensation, coughing, breathlessness and sore throat.	Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
Skin: 	Skin contact causes redness, burns and pain.	Remove immediately contaminated clothing and wash it separately with an alkaline detergent. Avoid concurrent exposure to sunlight or other sources of UV radiation which may increase skin sensitivity. Wash thoroughly the affected area with plenty of cold or lukewarm water and a solution of 5% sodium bicarbonate. Finally, rewash the affected area with soap and water. Do not use solvents or thinners. In the case of skin reddening or rashes, contact a doctor immediately. Throw away clothing should it be highly contaminated.
Eyes: 	Contact with the eyes produces redness, pain, serious burns and loss of vision.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Avoid concurrent exposure to sunlight or other sources of UV radiation which may increase eye sensitivity. Call a physician immediately.
Ingestion:	If swallowed, causes severe burns on the lips, mouth, throat and oesophagus, with gastric disorders and abdominal pain.	If swallowed, seek immediate medical attention. Drink large quantities of water. Do not induce vomiting, due to the risk of perforation. Keep the patient at rest.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:
The main symptoms and effects are indicated in sections 4.1 and 11.1

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient.
Antidotes and contraindications: Specific antidote not known.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:
Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:
As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health. Pyrolyzed acrylates are highly irritant to the respiratory system.

5.3 ADVICE FOR FIREFIGHTERS:
Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.
Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. Keep people without protection in opposition to the wind direction.

6.2 ENVIRONMENTAL PRECAUTIONS:
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:
Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Transfer to a suitable container for recovery or elimination. Neutralize with carbonate or sodium bicarbonate. Avoid use of solvents. Keep the remains in a closed container. Finally, clean up the area with plenty of water.

6.4 REFERENCE TO OTHER SECTIONS:
For contact information in case of emergency, see section 1.
For information on safe handling, see section 7.
For exposure controls and personal protection measures, see section 8.
For waste disposal, follow the recommendations in section 13.

SECTION 7 : HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:
Comply with the existing legislation on health and safety at work.
General recommendations:
Handle with care, avoiding any discharge. Avoid any type of leakage or escape. Keep the container tightly closed.
Recommendations for the prevention of fire and explosion risks:
Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.
- Flash point : 11. ºC
- Lower/upper flammability or explosive limits : 1.5* - 8.6* % Volume 25ºC
Recommendations for the prevention of toxicological risks:
Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
Recommendations for the prevention of environmental contamination:
Avoid any spillage in the environment. Pay special attention to the cleaning water. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Forbid the entry to unauthorized persons. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. Avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. Due to its corrosive properties, extreme precaution in the selection of materials for pumps, packages and lines should be taken. The floor must be waterproof and corrosion resistant, with a canal system allowing the liquid to be channelled towards a neutralising pit. The electrical equipment must be made of non-corrodible materials. For more information, see section 10.
Class of storage : According to current legislation.
Temperature interval : Keep refrigerated, max: 15.ºC
Incompatible materials:
Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.
Type of packaging:
According to current legislation.
Limit quantity (Seveso III): Directive 2012/18/EU:
- Named dangerous substances/mixtures: None
- Hazard categories and lower-/upperthreshold quantities in tonnes (t):
· Physical hazards: Highly flammable liquid and vapour (P5c) (5000t/50000t).
· Health hazards: Not applicable
· Environmental hazards: Not applicable
· Other hazards: Not applicable.
- Threshold quantity for the application of lower-tier requirements: 5000 tons
- Threshold quantity for the application of upper-tier requirements: 50000 tons
- Remarks:
The qualifying quantities set out above relate to each establishment. The quantities to be considered for the application of the relevant Articles are the maximum quantities which are present or are likely to be present at any one time. Dangerous substances present at an establishment only in quantities equal to or less than 2 % of the relevant qualifying quantity shall be ignored for the purposes of calculating the total quantity present, if their location within an establishment is such that it cannot act as an initiator of a major accident elsewhere at that establishment. For more details, see note 4 of Annex I of the Seveso Directive.

7.3 SPECIFIC END USES:
For the use of this product particular recommendations apart from that already indicated are not available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:
If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assesing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2020	Year	TLV-TWA ppm	TLV-TWA mg/m3	TLV-STEL ppm	TLV-STEL mg/m3	Remarks
Methacrylic acid	1981	20.	70.	-	-	
Rosin	1993	-	-	-	-	Sc
2,6-di-tert-butyl-p-cresol	2001	-	2.0	-	-	IFV A4

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.
Sc - May cause sensitization by skin contact.
A4 - Non classified as carcinogenic in humans.

Inhalable fraction and vapour (IFV): IFV notation indicates those chemical agents that may occur in the workplace, both as particulate matter and as vapour, so that the two phases can coexist, both contributing to exposure. This situation can occur mainly in the following cases: a) When the agent in question has an ´intermediate´ value of the vapour pressure (in these cases it is taking into account the relationship between its concentration in air saturated vapour and the value of TWA, and the note is assigned, generally, when the ratio between the two quantities is between 0.1 and 10), b) Because of the form of use of the chemical agent (e.g. spraying), c) In the processes involving large temperature changes that may affect the physical state of the chemical agent, and d) In the processes in which a significant fraction of vapour can be dissolved or adsorbed onto particles of other substances, like what happens with water soluble agents in high humidity environments. For more information, see C.Perez and S.C.Soderholm. Some chemicals requiring special consideration when deciding whether to sample the particle, vapor or both phases of an atmosphere. Appl. Occup. Environ. Hyg. 6 (10), 859-864. 1991).

BIOLOGICAL LIMIT VALUES:
Not available

DERIVED NO-EFFECT LEVEL (DNEL):
Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers: - Systemic effects, acute and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/kg bw/d	DNEL Oral mg/kg bw/d
Methacrylic acid	- (a) 29.6 (c)	- (a) 4.25 (c)	- (a) - (c)
Maleic acid	- (a) - (c)	58.0 (a) 3.30 (c)	- (a) - (c)
Rosin	- (a) - (c)	s/r (a) 2.13 (c)	- (a) - (c)
2,6-di-tert-butyl-p-cresol	s/r (a) 3.50 (c)	s/r (a) 0.500 (c)	- (a) - (c)
Tosyl chloride	s/r (a) 3.50 (c)	s/r (a) 0.500 (c)	- (a) - (c)
Trimetylolpropane triacrylate ethoxylated(1-6)	- (a) 16.2 (c)	- (a) 0.800 (c)	- (a) - (c)

Derived no-effect level, workers: - Local effects, acute and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/cm2	DNEL Eyes mg/cm2
Methacrylic acid	- (a) 88.0 (c)	- (a) - (c)	- (a) - (c)
Maleic acid	- (a) - (c)	0.550 (a) 0.0400 (c)	- (a) - (c)
Rosin	- (a) 10.0 (c)	s/r (a) s/r (c)	s/r (a) - (c)
2,6-di-tert-butyl-p-cresol	s/r (a) s/r (c)	s/r (a) s/r (c)	- (a) - (c)
Tosyl chloride	- (a) - (c)	a/r (a) a/r (c)	m/r (a) - (c)
Trimetylolpropane triacrylate ethoxylated(1-6)	- (a) - (c)	- (a) - (c)	- (a) - (c)

Derived no-effect level, general population:
Not applicable (product for professional or industrial use).

(a) - Acute, short-term exposure, (c) - Chronic, long-term or repeated exposure.
(-) - DNEL not available (without data of registration REACH).
s/r - DNEL not derived (not identified hazard).
m/r - DNEL not derived (medium hazard).
a/r - DNEL not derived (high hazard).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermittent release:	PNEC Fresh water mg/l	PNEC Marine mg/l	PNEC Intermittent mg/l
Methacrylic acid	0.820	0.820	0.820
Maleic acid	0.0744	s/r	0.744
Rosin	0.00160	0.000160	0.0160
2,6-di-tert-butyl-p-cresol	0.000200	0.000020	0.00200
Tosyl chloride	0.100	0.0100	1.00
Trimetylolpropane triacrylate ethoxylated(1-6)	0.00195	0.000195	0.0195
- Wastewater treatment plants (STP) and sediments in fresh- and marine water:	PNEC STP mg/l	PNEC Sediments mg/kg dw/d	PNEC Sediments mg/kg dw/d
Methacrylic acid	10.0	s/r	s/r
Maleic acid	3.33	0.0624	s/r
Rosin	1000.	0.00700	0.000700
2,6-di-tert-butyl-p-cresol	0.170	0.0996	0.00996
Tosyl chloride	17.3	s/r	s/r
Trimetylolpropane triacrylate ethoxylated(1-6)	10.0	0.00820	0.000820
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans:	PNEC Air mg/m3	PNEC Soil mg/kg dw/d	PNEC Oral mg/kg dw/d
Methacrylic acid	-	1.20	n/b
Maleic acid	-	s/r	n/b
Rosin	s/r	0.000450	n/b
2,6-di-tert-butyl-p-cresol	-	0.0477	8.33
Tosyl chloride	s/r	s/r	n/b
Trimetylolpropane triacrylate ethoxylated(1-6)	-	0.00587	5.60

(-) - PNEC not available (without data of registration REACH).
s/r - PNEC not derived (not identified hazard).
n/b - PNEC not derived (not bioaccumulative potential).

8.2 EXPOSURE CONTROLS:

ENGINEERING MEASURES:

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Protection of respiratory system: Avoid the inhalation of vapours.
Protection of eyes and face: Install water taps, sources or eyewash bottles with clean water close to the working area. Do not wear contact lenses.
Protection of hands and skin: Install water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

OCCUPATIONAL EXPOSURE CONTROLS: Regulation (EU) No. 2016/425:
As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:  ✓	Mask for gases and vapours of organic compounds (EN14387). Class 1: low capacity up to 1000 ppm, Class 2: medium capacity up to 5000 ppm, Class 3: high capacity up to 10000 ppm. In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour or oxygen content less than 18% in volume. In presence of high concentrations of vapour, use independent breathing apparatus.
Safety goggles:  ✓	Safety goggles for chemicals, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.
Face shield:	Face shield against liquid splashes (EN166), advisable when there is a risk of spillage, diffusion or atomization of the liquid.
Gloves:  ✓	Neoprene rubber gloves (EN374). When repeated or prolonged contact with the product is expected, gloves of protection level 5 or higher should be used, with a breakthrough time of >240 min.When short contact with the product is expected, use gloves with a protection level 2 or higher should be used, with a breakthrough time >30 min.The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, the instructions/specifications provided by the glove supplier should be taken into account. Do not use PVC gloves as PVC absorbs acrylates. Use the proper technique of removing gloves (without touching glove´s outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.
Boots:  ✓	Neoprene rubber boots (EN347).
Apron:  ✓	Apron resistant against corrosive products.
Clothing:  ✓	Clothing resistant to corrosive products will have to be worn.

Thermal hazards:
Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:
Avoid any spillage in the environment. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.
- Water Management Act: This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.
- VOC (industrial installations): If this product is used in an industrial installation, it must be verified if it is applicable the Directive 2010/75/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents in certain activities and installations: VOC (supply) : 65.0% Weight , VOC : 2.8% C (expressed as carbon) , Molecular weight (average) : 6.6 , Number C atoms (average) : 0.0.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance				
- Physical state	:	Liquid.		
- Colour	:	Colourless.		
- Odour	:	Characteristic.		
pH-value				
- pH	:	Acide		
Change of state				
- Melting point	:	Not applicable (mixture).		
- Boiling interval	:	160* - 416*	ºC at 760 mmHg	
Density				
- Relative density	:	1.03	at 20/4ºC	Relative water
Stability				
Viscosity:				
- Dynamic viscosity	:	120.	cps 20ºC	
- Kinematic viscosity	:	40.	mm2/s at 40ºC	
Volatility:				
Solubility(ies)				
- Partition coefficient: n-octanol/water	:	Not applicable (mixture).		
Flammability:				
- Flash point	:	11.	ºC	
- Lower/upper flammability or explosive limits	:	1.5* - 8.6*	% Volume 25ºC	
- Autoignition temperature	:	Not applicable		

Explosive properties:
Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source.
Oxidizing properties:
Not classified as oxidizing product.

*Estimated values based on the substances composing the mixture.

9.2 OTHER INFORMATION:

- Active oxygen	:	0.11	% O2
- VOC (supply)	:	65.0	% Weight
- VOC (supply)	:	51.5	g/l

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10 : STABILITY AND REACTIVITY

10.1 REACTIVITY:
Corrosivity to metals: Not available.
Pyrophorical properties: It is not pyrophoric.

10.2 CHEMICAL STABILITY:
Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:
Possible dangerous reaction with oxidizing agents, alkalis, peroxides.

10.4 CONDITIONS TO AVOID:
Heat: Keep away from sources of heat.
Light: If possible, avoid direct contact with sunlight.
Air: The product is not affected by exposure to air, but should not be left the containers open.
Humidity: Avoid extreme humidity conditions.
Pressure: Not relevant.
Shock: The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.

10.5 INCOMPATIBLE MATERIALS:
Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:
As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2020/1182 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations for individual ingredients :	LD50 (OECD 401) mg/kg bw oral	LD50 (OECD 402) mg/kg bw cutaneous	LC50 (OECD 403) mg/m3·4h inhalation
Methacrylic acid	1320. Rat	> 500. Rabbit	> 7100. Rat
Maleic acid	708. Rat	1560. Rabbit	> 720. Rat
Rosin	> 2000. Rat	> 2000. Rat	
2,6-di-tert-butyl-p-cresol	6000. Rat	> 2000. Rat	
Tosyl chloride	4680. Rat	5010. Rabbit	
Trimetylolpropane triacrylate ethoxylated(1-6)	> 2000. Rat	13200. Rabbit	
a,a-dimethylbenzyl hydroperoxide	382. Rat	> 500. Rat	

Estimates of acute toxicity (ATE) for individual ingredients :	ATE mg/kg bw oral	ATE mg/kg bw cutaneous	ATE mg/m3·4h inhalation
Methacrylic acid	1320.	> 500.	11000.* Vapours
Maleic acid	708.	1560.	-
a,a-dimethylbenzyl hydroperoxide	382.	1100.*	3000.* Vapours

(*) - Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for classification of a mixture based on its components and do not represent test results.
(-) - The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure route are ignored.

No observed adverse effect level	NOAEL Oral mg/kg bw/d	NOAEL Cutaneous mg/kg bw/d	NOAEC Inhalation mg/m3
a,a-dimethylbenzyl hydroperoxide			31. Rat

Lowest observed adverse effect level
Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
Inhalation: Not classified	ATE > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
Skin: Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
Eyes: Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
Ingestion: Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.

GHS/CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Respiratory corrosion/irritation:	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	GHS/CLP 1.2.6. 3.8.3.4.
Skin corrosion/irritation:	Skin	Cat.2	IRRITANT: Causes skin irritation.	GHS/CLP 3.2.3.3.
Serious eye damage/irritation:	Eyes	Cat.1	DAMAGE: Causes serious eye damage.	GHS/CLP 3.3.3.3.
Respiratory sensitisation: Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.
Skin sensitisation:	Skin	Cat.1	SENSITISING: May cause an allergic skin reaction.	GHS/CLP 3.4.3.3.

GHS/CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.
GHS/CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components.
GHS/CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components.
GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Aspiration hazard: Not classified	-	-	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).	GHS/CLP 3.10.3.3.

GHS/CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Effects	SE/RE	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Respiratory:	SE	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	GHS/CLP 3.8.3.4.

GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

CMR EFFECTS:
Carcinogenic effects: It is not considered as a carcinogenic product.
Genotoxicity: It is not considered as a mutagenic product.
Toxicity for reproduction: Does not harm fertility. Does not harm the unborn child.
Effects via lactation: Not classified as a hazardous product for children breast-fed.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:
Routes of exposure: May be absorbed by inhalation, through the skin and eyes, and by ingestion.
Short-term exposure:
Long-term or repeated exposure: Repeated or prolonged skin or mucous contact may cause symptoms of irritation, such as redness, blisters or dermatitis.

INTERACTIVE EFFECTS:
Not available.

INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:
Dermal absorption: Not available.
Basic toxicokinetics: Not available.

ADDITIONAL INFORMATION:
The preparation´s acrylic ingredients have irritant properties. Cases of skin allergies have been noted. Splashes in the eyes can cause irritation. Inhaling drops suspended in the air or aerosols may cause irritation to the respiratory system. Ingestion may cause collapse, serious respiratory difficulties and stimulation of the central nervous system. Repeated or prolonged contact with the skin or mucous membranes could give rise to symptoms of irritation, such as reddening, blistering, dermatitis, etc..

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2020/1182 (CLP).

12.1 TOXICITY:

Acute toxicity in aquatic environment for individual ingredients :	LC50 (OECD 203) mg/l·96hours	EC50 (OECD 202) mg/l·48hours	EC50 (OECD 201) mg/l·72hours
Methacrylic acid	> 85. Fishes	130. Daphnia	> 45. Algae
Maleic acid	> 75. Fishes	> 43. Daphnia	> 74. Algae
Rosin	> 5.0 Fishes	> 1.6 Daphnia	> 35. Algae
2,6-di-tert-butyl-p-cresol	0.20 Fishes	0.48 Daphnia	0.42 Algae
Tosyl chloride	> 100. Fishes	334. Daphnia	> 100. Algae
Trimetylolpropane triacrylate ethoxylated(1-6)	> 1.9 Fishes	> 71. Daphnia	> 2.2 Algae
a,a-dimethylbenzyl hydroperoxide	> 3.9 Fishes	> 19. Daphnia	> 3.1 Algae

No observed effect concentration	NOEC (OECD 210) mg/l·28days	NOEC (OECD 211) mg/l·21days	NOEC (OECD 201) mg/l·72hours
Rosin			6.3 Algae
a,a-dimethylbenzyl hydroperoxide			< 1. Algae

Lowest observed effect concentration
Not available

ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
Acute aquatic toxicity: Not classified	-	Not classified as a hazardous product with acute toxicity to aquatic life (based on available data, the classification criteria are not met).	GHS/CLP 4.1.3.5.5.3.
Chronic aquatic toxicity:	Cat.3	HARMFUL: Harmful to aquatic life with long lasting effects.	GHS/CLP 4.1.3.5.5.4.

CLP 4.1.3.5.5.3: Classification of a mixture for acute hazards, based on summation of classified components.
CLP 4.1.3.5.5.4: Classification of a mixture for chronic (long term) hazards, based on summation of classified components.

12.2 PERSISTENCE AND DEGRADABILITY:
Not available.

Aerobic biodegradation for individual ingredients :	DQO mgO2/g	%DBO/DQO 5 days 14 days 28 days	Biodegradability
Methacrylic acid	1673.	~ 86.	Easy
Maleic acid	830.	~ 70. ~ 75. ~ 97.	Easy
Rosin			Easy
2,6-di-tert-butyl-p-cresol	2977.		Not easy
Tosyl chloride		60.	Easy
Trimetylolpropane triacrylate ethoxylated(1-6)		10. 41. 60.	Easy
Bis[2-(acryloyloxy)ethyl] hydrogen phosphate			Not available
2-(phosphonooxy)ethyl acrylate			Not available
a,a-dimethylbenzyl hydroperoxide	2313.	~ 5.	Not easy

Note: Biodegradability data correspond to an average of data from various bibliographic sources.

12.3 BIOACCUMULATIVE POTENTIAL:
Not available.

Bioaccumulation for individual ingredients :	log Pow	BCF L/kg	Potential
Methacrylic acid	0.930	3.2 (calculated)	Not bioaccumulative.
Maleic acid	-1.30	< 10. (calculated)	Not bioaccumulative.
Rosin	6.46	56. (calculated)	Low
2,6-di-tert-butyl-p-cresol	4.17	646. (calculated)	High
Tosyl chloride	3.49	93. (calculated)	Low
Trimetylolpropane triacrylate ethoxylated(1-6)	2.89		Not bioaccumulative.
Bis[2-(acryloyloxy)ethyl] hydrogen phosphate	0.580		Not available
2-(phosphonooxy)ethyl acrylate	-0.175		Not available
a,a-dimethylbenzyl hydroperoxide	1.60		Unlikely, low

12.4 MOBILITY IN SOIL:
Not available.

Mobility for individual ingredients :	log Poc	Constant of Henry Pa·m3/mol 20ºC	Potential
Methacrylic acid	0.670		Not bioaccumulative.
Maleic acid	-1.69		Not bioaccumulative.
Rosin	6.07		Low
2,6-di-tert-butyl-p-cresol	3.91		High
Tosyl chloride	3.02		Low
Trimetylolpropane triacrylate ethoxylated(1-6)	2.20		Not bioaccumulative.
Bis[2-(acryloyloxy)ethyl] hydrogen phosphate	0.193		Not available
2-(phosphonooxy)ethyl acrylate	-0.562		Not available
a,a-dimethylbenzyl hydroperoxide	1.60	0.098 (calculated)	Unlikely, low

12.5 RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:
Does not contain substances that fulfil the PBT/vPvB criteria.

12.6 OTHER ADVERSE EFFECTS:
Ozone depletion potential: Not available.
Photochemical ozone creation potential: Not available.
Earth global warming potential: In case of fire or incineration liberates CO2.
Endocrine disrupting potential: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC~Regulation (EU) no. 1357/2014:
Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:
Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of empting of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:
Controlled incineration in special facilities for chemical waste, in accordance with local regulations.

SECTION 14 : TRANSPORT INFORMATION

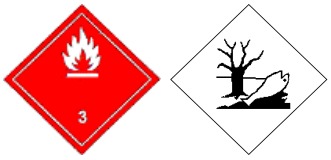
14.1 UN NUMBER: 1133

14.2 UN PROPER SHIPPING NAME:
ADHESIVES

14.3 TRANSPORT HAZARD CLASS(ES):

Transport by road (ADR 2021) and
Transport by rail (RID 2021):

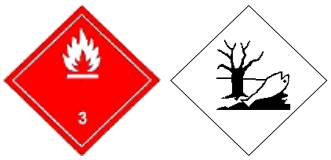
- Class:	3
- Packing group:	III
- Classification code:	F1
- Tunnel restriction code:	(D/E)
- Transport category:	3 , max. ADR 1.1.3.6. 1000 L
- Limited quantities:	5 L (see total exemptions ADR 3.4)
- Transport document:	Consignment paper.
- Instructions in writing:	ADR 5.4.3.4



FP<23ºC, viscous according 2.2.3.1.4. <450 L (ADR) or 2.3.2.2. <30 L (IMDG) or 3.3.3.1.1. <30 L (IATA), VP>175 kPa50ºC

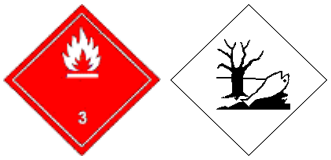
Transport by sea (IMDG 39-18):

- Class:	3
- Packing group:	III
- Emergency Sheet (EmS):	F-E,S-D
- First Aid Guide (MFAG):	330
- Marine pollutant:	Yes.
- Transport document:	Shipping Bill of lading.



Transport by air (ICAO/IATA 2021):

- Class:	3
- Packing group:	III
- Transport document:	Air Bill of lading.



Transport by inland waterways (ADN):
Not available.

14.4 PACKING GROUP:
See section 14.3

14.5 ENVIRONMENTAL HAZARDS:
Classified as hazardous for the environment.

14.6 SPECIAL PRECAUTIONS FOR USER:
Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:
The regulations applicable to this product generally are listed throughout this Safety Data Sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

Tactile warning of danger: Not applicable (product for professional or industrial use).

Child safety protection: Not applicable (product for professional or industrial use).

OTHER REGULATIONS:

Control of the risks inherent in major accidents (Seveso III): See section 7.2

Other local legislations:
The receiver should verify the possible existence of local regulations applicable to the chemical.

15.2 CHEMICAL SAFETY ASSESSMENT:
A chemical safety assessment has not been carried out for this mixture.

SECTION 16 : OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:
Hazard statements according the Regulation (EU) No. 1272/2008~2020/1182 (CLP), Annex III:
H242 Heating may cause a fire. H290 May be corrosive to metals. H302 Harmful if swallowed. H311 Toxic 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. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H373 May cause damage to organs through prolonged or repeated exposure.

EVALUATION OF THE INFORMATION ON THE DANGER OF MIXTURES: See sections 9.1, 11.1 and 12.1.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:
It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:
· European Chemicals Agency: ECHA, http://echa.europa.eu/
· Access to European Union Law, http://eur-lex.europa.eu/
· Threshold Limit Values, (AGCIH, 2018).
· European agreement on the international carriage of dangerous goods by road, (ADR 2021).
· International Maritime Dangerous Goods Code IMDG including Amendment 39-18 (IMO, 2018).

ABBREVIATIONS AND ACRONYMS:
List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:
· REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
· GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
· CLP: European regularion on Classificatin, Labelling amd Packaging of substances and chemical mixtures.
· EINECS: European Inventory of Existing Commercial Chemical Substances.
· ELINCS: European List of Notified Chemical Substances.
· CAS: Chemical Abstracts Service (Division of the American Chemical Society).
· UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
· SVHC: Substances of Very High Concern.
· PBT: Persistent, bioaccumulable and toxic substances.
· vPvB: Very persistent and very bioaccumulable substances.
· VOC: Volatile Organic Compounds.
· DNEL: Derived No-Effect Level (REACH).
· PNEC: Predicted No-Effect Concentration (REACH).
· LD50: Lethal dose, 50 percent.
· LC50: Lethal concentration, 50 percent.
· UN: United Nations Organisation.
· ADR: European agreement concerning the international carriage of dangeous goods by road.
· RID: Regulations concerning the international transport of dangeous goods by rail.
· IMDG: International Maritime code for Dangerous Goods.
· IATA: International Air Transport Association.
· ICAO: International Civil Aviation Organization.

SAFETY DATA SHEET REGULATIONS:
Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORIC:	Date of compilation:
Version: 1	22/09/2021

ULTRA FAST METAL BONDING
ACTIV Code: 5006-001082

Version: 1 Date of compilation: 12/09/2021 Date of printing: 12/09/2021

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

1.1 PRODUCT IDENTIFIER: ULTRA FAST METAL BONDING
ACTIV Code: 5006-001082

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:
Intended uses (main technical functions): [X] Industrial [X] Professional
ADHESIVE.
Sectors of use:
Professional uses (SU22).
Uses advised against:
This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as 'Intended or identified uses'.
Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:
Contains CMR substances, categories 1A or 1B: Restricted to professional users. Forbidden to the general public. The restrictions do not apply to storage, keeping, treatment, filling into containers, or transfer from one container to another of the substances for export. See entry 28 and/or 29 and/or 30 in the Annex of the Regulation (EC) No. 552/2009~276/2010.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:
CAR REPAIR SYSTEM S.A.
Pol. Ind. 2 de Octubre. C/ Jose Muñoz, 6 - E-18320 - Santa Fe - Granada (Espa±a)
Phone: +34 95 8431792
E-mail address of the person responsible for the Safety Data Sheet:
info@carrepairsystem.eu

1.4 EMERGENCY TELEPHONE NUMBER: +34 95 8431792 (L-J 8:30-14 / 15-18 h. V 8:30-14:30 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:
Classification of mixtures is carried out in accordance with the following principles: a) when data (tests) for the classification of mixtures are available, generally is carried out based on these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture.

Classification in accordance with Regulation (EU) No. 1272/2008~2020/1182 (CLP):
DANGER: Flam. Liq. 2:H225 | Skin Irrit. 2:H315 | Skin Sens. 1:H317 | STOT SE (irrit.) 3:H335 | Aquatic Chronic 2:H411

Danger class	Classification of the mixture		Cat.	Routes of exposure	Target organs	Effects
Physicochemical: 	Flam. Liq. 2:H225	a)	Cat.2	-	-	-
	Skin Irrit. 2:H315	c)	Cat.2	Skin	Skin	Irritation
	Skin Sens. 1:H317	c)	Cat.1	Skin	Skin	Allergy
Human health: 	STOT SE (irrit.) 3:H335	c)	Cat.3	Inhalation	Respiratory tract	Irritation
	Aquatic Chronic 2:H411	c)	Cat.2	-	-	-
Environment: 						

Full text of hazard statements mentioned is indicated in section 16.

Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.

2.2 LABEL ELEMENTS:

This product is labelled with the signal word DANGER in accordance with Regulation (EU) No. 1272/2008~2020/1182 (CLP)

Hazard statements:

H225	Highly flammable liquid and vapour.
H335	May cause respiratory irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280F	Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection.
P363	Wash contaminated clothing before reuse.
P303+P361+P353-P352-P312	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell.

P273-P391-P501a Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with local regulations.

Supplementary statements:
EUC028 Restricted to professional users.

Substances that contribute to classification:
Methyl methacrylate
Cobalt bis(2-ethylhexanoate)

2.3 OTHER HAZARDS:

Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:
Other physicochemical hazards: Vapours may form with air a mixture potentially flammable or explosive.
Other adverse human health effects: Prolonged exposure to vapours may produce transient drowsiness. Prolonged contact may cause skin dryness.
Other negative environmental effects: # *Does not contain substances that fulfil the PBT/vPvB criteria.*

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:

Not applicable (mixture).

3.2 MIXTURES:

This product is a mixture.
Chemical description:
Methyl methacrylate.

INGREDIENTS:

70 < 80 % 	Methyl methacrylate CAS: 80-62-6 , EC: 201-297-1 CLP: Danger: Flam. Liq. 2:H225 | Skin Irrit. 2:H315 | Skin Sens. 1:H317 | STOT SE (irrit.) 3:H335	Index No. 607-035-00-6 < CLP00
15 < 20 %	Oxydipropyl dibenzoate CAS: 27138-31-4 , EC: 248-258-5 REACH: 01-2119529241-49 CLP: Aquatic Chronic 3:H412	Autoclassified < REACH
5 < 10 % 	3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine CAS: 34562-31-7 , EC: 252-091-3 REACH: 01-2120769712-47 CLP: Warning: Acute Tox. (oral) 4:H302 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | Aquatic Acute 1:H400 (M=10) | Aquatic Chronic 1:H410 (M=10)	Autoclassified < REACH
< 0,5 % 	Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 , EC: 205-250-6 REACH: 01-2119524678-29 CLP: Danger: Eye Irrit. 2:H319 | Skin Sens. 1A:H317 | Repr. 1B:H360F | Repr. 2:H361d | Aquatic Acute 1:H400 (M=1) | Aquatic Chronic 3:H412	Autoclassified < REACH

Impurities:
Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:
None

Reference to other sections:
For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):
List updated by ECHA on 08/07/2021.
Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:
None
Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:
None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:
Does not contain substances that fulfil the PBT/vPvB criteria.

SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES:

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	Inhalation of solvent vapours may produce headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Inhalation produces irritation to mucus, coughing and breathlessness.	Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
Skin:	Skin contact causes redness. Prolonged contact may cause skin dryness.	Remove immediately contaminated clothing and wash it separately with an alkaline detergent. Avoid concurrent exposure to sunlight or other sources of UV radiation which may increase skin sensitivity. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners. In the case of skin reddening or rashes, contact a doctor immediately. Throw away clothing should it be highly contaminated.
Eyes:	Contact with the eyes produces redness and pain.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Avoid concurrent exposure to sunlight or other sources of UV radiation which may increase eye sensitivity. Call a physician immediately.
Ingestion:	If swallowed, may cause irritation of the throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea.	If swallowed, seek immediate medical attention. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:
The main symptoms and effects are indicated in sections 4.1 and 11.1

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient.
Antidotes and contraindications: Specific antidote not known.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:
Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:
As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, nitrogen oxides. Exposure to combustion or decomposition products may be a hazard to health. Pyrolyzed acrylates are highly irritant to the respiratory system.

5.3 ADVICE FOR FIREFIGHTERS:
Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.
Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. Keep people without protection in opposition to the wind direction.

6.2 ENVIRONMENTAL PRECAUTIONS:
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:
Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Clean preferably with a biodegradable detergent. Avoid use of solvents. Keep the remains in a closed container.

6.4 REFERENCE TO OTHER SECTIONS:
For contact information in case of emergency, see section 1.
For information on safe handling, see section 7.
For exposure controls and personal protection measures, see section 8.
For waste disposal, follow the recommendations in section 13.

SECTION 7 : HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:
Comply with the existing legislation on health and safety at work.
General recommendations:
Avoid any type of leakage or escape. Keep the container tightly closed.
Recommendations for the prevention of fire and explosion risks:
Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.

- Flash point	:	10. ºC
- Lower/upper flammability or explosive limits	:	1.7* - 12.6* % Volume 25ºC

Recommendations for the prevention of toxicological risks:
Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
Recommendations for the prevention of environmental contamination:
Avoid any spillage in the environment. Pay special attention to the cleaning water. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Forbid the entry to unauthorized persons. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. Avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.

Class of storage	:	According to current legislation.
Maximum storage period	:	6. months
Temperature interval	:	min: 5. ºC, max: 25. ºC (recommended).

Incompatible materials:
Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.
Type of packaging:
According to current legislation.
Limit quantity (Seveso III): Directive 2012/18/EU:
- Named dangerous substances/mixtures: None
- Hazard categories and lower-/upperthreshold quantities in tonnes (t):
· Physical hazards: Highly flammable liquid and vapour (P5c) (5000t/50000t).
· Health hazards: Not applicable
· Environmental hazards: Toxic to aquatic life with long lasting effects (E2) (200t/500t).
· Other hazards: Not applicable.
- Threshold quantity for the application of lower-tier requirements: 200 tons
- Threshold quantity for the application of upper-tier requirements: 500 tons
- Remarks:
The qualifying quantities set out above relate to each establishment. The quantities to be considered for the application of the relevant Articles are the maximum quantities which are present or are likely to be present at any one time. Dangerous substances present at an establishment only in quantities equal to or less than 2 % of the relevant qualifying quantity shall be ignored for the purposes of calculating the total quantity present, if their location within an establishment is such that it cannot act as an initiator of a major accident elsewhere at that establishment. For more details, see note 4 of Annex I of the Seveso Directive.

7.3 SPECIFIC END USES:
For the use of this product particular recommendations apart from that already indicated are not available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1

CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assesing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2020	Year	TLV-TWA ppm	TLV-TWA mg/m3	TLV-STEL ppm	TLV-STEL mg/m3	Remarks
Methyl methacrylate	2000	50.	208.	100.	416.	A4 Sc

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.
Sc - May cause sensitization by skin contact.
A4 - Non classified as carcinogenic in humans.

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

Derived no-effect level, workers: - Systemic effects, acute and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/kg bw/d	DNEL Oral mg/kg bw/d
Oxydipropyl dibenzoate	35.1 (a) 8.80 (c)	170. (a) 10.0 (c)	- (a) - (c)
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	- (a) - (c)	- (a) - (c)	- (a) - (c)
Cobalt bis(2-ethylhexanoate)	- (a) - (c)	- (a) 1.00 (c)	- (a) - (c)

Derived no-effect level, workers: - Local effects, acute and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/cm2	DNEL Eyes mg/cm2
Oxydipropyl dibenzoate	- (a) - (c)	- (a) - (c)	- (a) - (c)
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	- (a) - (c)	- (a) - (c)	- (a) - (c)
Cobalt bis(2-ethylhexanoate)	- (a) 0.235 (c)	- (a) - (c)	- (a) - (c)

Derived no-effect level, general population:

Not applicable (product for professional or industrial use).

(a) - Acute, short-term exposure, (c) - Chronic, long-term or repeated exposure.
(-) - DNEL not available (without data of registration REACH).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermittent release: Oxydipropyl dibenzoate 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine Cobalt bis(2-ethylhexanoate)	PNEC Fresh water mg/l 0.00370 - 0.000510	PNEC Marine mg/l 0.000370 - 0.00236	PNEC Intermittent mg/l 0.0370 - -
- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Oxydipropyl dibenzoate 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine Cobalt bis(2-ethylhexanoate)	PNEC STP mg/l 10.0 - 0.370	PNEC Sediments mg/kg dw/d 1.49 - 9.50	PNEC Sediments mg/kg dw/d 0.149 - 9.50
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans: Oxydipropyl dibenzoate 3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine Cobalt bis(2-ethylhexanoate)	PNEC Air mg/m3 s/r - -	PNEC Soil mg/kg dw/d 1.00 - 7.90	PNEC Oral mg/kg dw/d 333. - n/b

(-) - PNEC not available (without data of registration REACH).
s/r - PNEC not derived (not identified hazard).
n/b - PNEC not derived (not bioaccumulative potential).

8.2 EXPOSURE CONTROLS:

ENGINEERING MEASURES:

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system: Avoid the inhalation of vapours.
Protection of eyes and face: It is recommended to install water taps, sources or eyewash bottles with clean water close to the working area. Do not wear contact lenses.
Protection of hands and skin: It is recommended to install water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

OCCUPATIONAL EXPOSURE CONTROLS: Regulation (EU) No. 2016/425:
As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:  ✓	Mask for gases and vapours of organic compounds (EN14387). Class 1: low capacity up to 1000 ppm, Class 2: medium capacity up to 5000 ppm, Class 3: high capacity up to 10000 ppm. In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour or oxygen content less than 18% in volume. In presence of high concentrations of vapour, use independent breathing apparatus.
Safety goggles:  ✓	Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.
Face shield:	Face shield against liquid splashes (EN166), advisable when there is a risk of spillage, diffusion or atomization of the liquid.
Gloves:  ✓	Gloves resistant against chemicals (EN374). When repeated or prolonged contact with the product is expected, gloves of protection level 5 or higher should be used, with a breakthrough time of >240 min.When short contact with the product is expected, use gloves with a protection level 2 or higher should be used, with a breakthrough time >30 min.The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, the instructions/specifications provided by the glove supplier should be taken into account. Do not use PVC gloves as PVC absorbs acrylates. Use the proper technique of removing gloves (without touching glove´s outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.
Boots:	No.
Apron:  ✓	Chemicals-resistant apron.
Clothing:	Advisable.

Thermal hazards:
Not applicable (the product is handled at room temperature).

ENVIRONMENTAL EXPOSURE CONTROLS:
Avoid any spillage in the environment. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.
- Water Management Act: This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.

- VOC (industrial installations): If this product is used in an industrial installation, it must be verified if it is applicable the Directive 2010/75/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents in certain activities and installations: Solvents : 54.0% Weight , VOC (supply) : 54.0% Weight , VOC : 45.0% C (expressed as carbon) , Molecular weight (average) : 139.1 , Number C atoms (average) : 9.7.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance				
- Physical state	:	Liquid.		
- Colour	:	Colourless.		
- Odour	:	Characteristic.		
pH-value				
- pH	:	Not applicable (non-aqueous media).		
Change of state				
- Melting point	:	Not applicable (mixture).		
- Boiling interval	:	100. - 487*	ºC at 760 mmHg	
Density				
- Relative density	:	0.976*	at 20/4ºC	Relative water
Stability				
- Decomposition temperature	:	40.	ºC	
Viscosity:				
Volatility:				
Solubility(ies)				
- Partition coefficient: n-octanol/water	:	Not applicable (mixture).		
Flammability:				
- Flash point	:	10.	ºC	
- Lower/upper flammability or explosive limits	:	1.7* - 12.6*	% Volume 25ºC	
- Autoignition temperature	:	Not applicable		

Explosive properties:
Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source.
Oxidizing properties:
Not classified as oxidizing product.

*Estimated values based on the substances composing the mixture.

9.2 OTHER INFORMATION:

- VOC (supply)	:	54.0	% Weight
- VOC (supply)	:	732.4	g/l

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10 : STABILITY AND REACTIVITY

10.1 REACTIVITY:
Corrosivity to metals: It is not corrosive to metals.
Pyrophorical properties: It is not pyrophoric.

10.2 CHEMICAL STABILITY:
Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:
Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis, metals, heavy-metal compounds, peroxides, polymerization initiators.

10.4 CONDITIONS TO AVOID:
- Heat: Keep away from sources of heat.
- Light: If possible, avoid direct contact with sunlight.
- Air: The product is not affected by exposure to air, but should not be left the containers open.
- Humidity: Avoid extreme humidity conditions.
- Pressure: Not relevant.
- Shock: The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.

10.5 INCOMPATIBLE MATERIALS:
Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:
As consequence of thermal decomposition, hazardous products may be produced: nitrogen oxides.

SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2020/1182 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations for individual ingredients :	LD50 (OECD 401) mg/kg bw oral	LD50 (OECD 402) mg/kg bw cutaneous	LC50 (OECD 403) mg/m3·4h inhalation
Methyl methacrylate	7872. Rat	> 5000. Rabbit	> 29800. Rat
Oxydipropyl dibenzoate	3914. Rat	> 2000. Rat	> 100000 Rat
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	> 500. Rat	> 1000. Rabbit	
Cobalt bis(2-ethylhexanoate)	3129. Rat	> 2000. Rat	

Estimates of acute toxicity (ATE) for individual ingredients :	ATE mg/kg bw oral	ATE mg/kg bw cutaneous	ATE mg/m3·4h inhalation
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	> 500.	-	-

(*) - Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for classification of a mixture based on its components and do not represent test results.
(-) - The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure route are ignored.

No observed adverse effect level
Not available
Lowest observed adverse effect level
Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
Inhalation: Not classified	ATE > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
Skin: Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
Eyes: Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
Ingestion: Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.

GHS/CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Respiratory corrosion/irritation:	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	GHS/CLP 1.2.6. 3.8.3.4.
Skin corrosion/irritation:	Skin	Cat.2	IRRITANT: Causes skin irritation.	GHS/CLP 3.2.3.3.
Serious eye damage/irritation: Not classified	-	-	Not classified as a product corrosive or irritant in contact with eyes (based on available data, the classification criteria are not met).	GHS/CLP 3.3.3.3.
Respiratory sensitisation: Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.
Skin sensitisation:	Skin	Cat.1	SENSITISING: May cause an allergic skin reaction.	GHS/CLP 3.4.3.3.

GHS/CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.
GHS/CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components.
GHS/CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components.
GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Aspiration hazard: Not classified	-	-	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).	GHS/CLP 3.10.3.3.

GHS/CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Effects	SE/RE	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Respiratory:	SE	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	GHS/CLP 3.8.3.4.

GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

CMR EFFECTS:
Carcinogenic effects: It is not considered as a carcinogenic product.
Genotoxicity: It is not considered as a mutagenic product.
Toxicity for reproduction: Does not harm fertility. Does not harm the unborn child.
Effects via lactation: Not classified as a hazardous product for children breast-fed.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:
Routes of exposure: May be absorbed by inhalation of vapour, through the skin and by ingestion. May be absorbed by inhalation, through the skin and eyes, and by ingestion.
Short-term exposure: Exposure to solvent vapour concentrations 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 kidneys, liver and central nervous system. If swallowed, may cause irritation of the throat and other effects may be the same as described in the exposure to vapours.
Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Repeated or prolonged skin or mucous contact may cause symptoms of irritation, such as redness, blisters or dermatitis.

INTERACTIVE EFFECTS:
Not available.

INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:
Dermal absorption: Not available.
Basic toxicokinetics: Not available.

ADDITIONAL INFORMATION:
The preparation´s acrylic ingredients have irritant properties. Cases of skin allergies have been noted. Splashes in the eyes can cause irritation. Inhaling drops suspended in the air or aerosols may cause irritation to the respiratory system. Ingestion may cause collapse, serious respiratory difficulties and stimulation of the central nervous system. Repeated or prolonged contact with the skin or mucous membranes could give rise to symptoms of irritation, such as reddening, blistering, dermatitis, etc..

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2020/1182 (CLP).

12.1 TOXICITY:

Acute toxicity in aquatic environment for individual ingredients :	LC50 (OECD 203) mg/l·96hours	EC50 (OECD 202) mg/l·48hours	EC50 (OECD 201) mg/l·72hours
Methyl methacrylate	> 79. Fishes	> 69. Daphnia	> 37. Algae
Oxydipropyl dibenzoate	> 3.7 Fishes	> 19. Daphnia	> 4.9 Algae
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine			> 40. Algae
Cobalt bis(2-ethylhexanoate)	> 1.5 Fishes	0.61 Daphnia	0.20 Algae
No observed effect concentration	**NOEC (OECD 210)** **mg/l·28days**	**NOEC (OECD 211)** **mg/l·21days**	**NOEC (OECD 201)** **mg/l·72hours**
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine			16. Algae

Lowest observed effect concentration
Not available

ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
Acute aquatic toxicity: Not classified	-	Not classified as a hazardous product with acute toxicity to aquatic life (based on available data, the classification criteria are not met).	GHS/CLP 4.1.3.5.5.3.
Chronic aquatic toxicity:	Cat.2	TOXIC: Toxic to aquatic life with long lasting effects.	GHS/CLP 4.1.3.5.5.4.

CLP 4.1.3.5.5.3: Classification of a mixture for acute hazards, based on summation of classified components.
CLP 4.1.3.5.5.4: Classification of a mixture for chronic (long term) hazards, based on summation of classified components.

12.2 PERSISTENCE AND DEGRADABILITY:
Not available.

Aerobic biodegradation for individual ingredients :	DQO mgO2/g	%DBO/DQO 5 days 14 days 28 days	Biodegradability
Methyl methacrylate	1748.		Easy
Oxydipropyl dibenzoate	2230.	~ 87.	Easy
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine			Not easy
Cobalt bis(2-ethylhexanoate)			Not easy

Note: Biodegradability data correspond to an average of data from various bibliographic sources.

12.3 BIOACCUMULATIVE POTENTIAL:
Not available.

Bioaccumulation for individual ingredients :	log Pow	BCF L/kg	Potential
Methyl methacrylate	1.38	3.8 (calculated)	Not bioaccumulative.
Oxydipropyl dibenzoate		167. (calculated)	Unlikely, low
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	6.50		Not available
Cobalt bis(2-ethylhexanoate)	2.96	24. (calculated)	Low

12.4 MOBILITY IN SOIL:
Not available.

Mobility for individual ingredients :	log Poc	Constant of Henry Pa·m3/mol 20ºC	Potential
Methyl methacrylate	0.993		Not bioaccumulative.
Oxydipropyl dibenzoate	2.85		Unlikely, low
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	6.11		Not available
Cobalt bis(2-ethylhexanoate)	3.05		Low

12.5 RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:
Does not contain substances that fulfil the PBT/vPvB criteria.

12.6 OTHER ADVERSE EFFECTS:
Ozone depletion potential: Not available.
Photochemical ozone creation potential: Not available.
Earth global warming potential: In case of fire or incineration liberates CO2.
Endocrine disrupting potential: Not available.

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC~Regulation (EU) no. 1357/2014:
Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:
Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of empting of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:
Controlled incineration in special facilities for chemical waste, in accordance with local regulations.

SECTION 14 : TRANSPORT INFORMATION

14.1 UN NUMBER: 1133

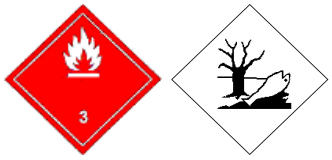
14.2 UN PROPER SHIPPING NAME:
ADHESIVES

14.3 TRANSPORT HAZARD CLASS(ES):

(Special provision 640D)
VP<110 kPa50ºC

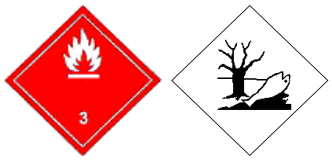
Transport by road (ADR 2021) and
Transport by rail (RID 2021):

- Class:	3
- Packing group:	II
- Classification code:	F1
- Tunnel restriction code:	(D/E)
- Transport category:	2 , max. ADR 1.1.3.6. 333 L
- Limited quantities:	5 L (see total exemptions ADR 3.4)
- Transport document:	Consignment paper.
- Instructions in writing:	ADR 5.4.3.4



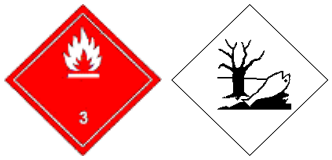
Transport by sea (IMDG 39-18):

- Class:	3
- Packing group:	II
- Emergency Sheet (EmS):	F-E,S-D
- First Aid Guide (MFAG):	330
- Marine pollutant:	Yes.
- Transport document:	Shipping Bill of lading.



Transport by air (ICAO/IATA 2021):

- Class:	3
- Packing group:	II
- Transport document:	Air Bill of lading.



Transport by inland waterways (ADN):
Not available.

14.4 PACKING GROUP:
See section 14.3

14.5 ENVIRONMENTAL HAZARDS:
Classified as hazardous for the environment.

14.6 SPECIAL PRECAUTIONS FOR USER:
Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure. Ensure adequate ventilation.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:
The regulations applicable to this product generally are listed throughout this Safety Data Sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

Tactile warning of danger: Not applicable (product for professional or industrial use).

Child safety protection: Not applicable (the classification criteria are not met).

OTHER REGULATIONS:

Responsabilidade ambiental:
A utilização deste produto em Portugal fica sujeita ao regime de responsabilidade ambiental previsto no DL.147/2008.

Control of the risks inherent in major accidents (Seveso III): See section 7.2

Other local legislations:
The receiver should verify the possible existence of local regulations applicable to the chemical.

15.2 CHEMICAL SAFETY ASSESSMENT:
A chemical safety assessment has not been carried out for this mixture.

SECTION 16 : OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:
Hazard statements according the Regulation (EU) No. 1272/2008~2020/1182 (CLP), Annex III:
H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. 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. H360F May damage fertility. H361d Suspected of damage the unborn child.

EVALUATION OF THE INFORMATION ON THE DANGER OF MIXTURES: See sections 9.1, 11.1 and 12.1.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:
It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:
· European Chemicals Agency: ECHA, http://echa.europa.eu/
· Access to European Union Law, http://eur-lex.europa.eu/
· Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
· Threshold Limit Values, (AGCIH, 2018).
· European agreement on the international carriage of dangerous goods by road, (ADR 2021).
· International Maritime Dangerous Goods Code IMDG including Amendment 39-18 (IMO, 2018).

ABBREVIATIONS AND ACRONYMS:
List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:
· REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
· GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
· CLP: European regularion on Classificatin, Labelling amd Packaging of substances and chemical mixtures.
· EINECS: European Inventory of Existing Commercial Chemical Substances.
· ELINCS: European List of Notified Chemical Substances.
· CAS: Chemical Abstracts Service (Division of the American Chemical Society).
· UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
· SVHC: Substances of Very High Concern.
· PBT: Persistent, bioaccumulable and toxic substances.
· vPvB: Very persistent and very bioaccumulable substances.
· VOC: Volatile Organic Compounds.
· DNEL: Derived No-Effect Level (REACH).
· PNEC: Predicted No-Effect Concentration (REACH).
· LD50: Lethal dose, 50 percent.
· LC50: Lethal concentration, 50 percent.
· UN: United Nations Organisation.
· ADR: European agreement concerning the international carriage of dangeous goods by road.
· RID: Regulations concerning the international transport of dangeous goods by rail.
· IMDG: International Maritime code for Dangerous Goods.
· IATA: International Air Transport Association.
· ICAO: International Civil Aviation Organization.

SAFETY DATA SHEET REGULATIONS:
Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORIC:	Date of compilation:
Version: 1	12/09/2021

The information of this Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.