cromaresme beyond color

PRIMAPOX 6121
Code: 55451

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

1.1 PRODUCT IDENTIFIER: PRIMAPOX 6121
Code: 55451

1.2 RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:
Intended uses (main technical functions): [X] Industrial [ ] Professional [ ] Consumers
Industrial paint.
Sectors of use:
Industrial manufacturing (SU3).
Uses advised against:
This product is not recommended for any use or sector of use (industrial, professional or consume) 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:
CROMARESME, S.L.
Pol. Ind. La Surera - c/ dels Carboners 10 - E-08319 - Dosrius (Barcelona)
Phone: +34 93 7919950 - Fax: +34 93 7919021
E-mail address of the person responsible for the Safety Data Sheet:
ftecnica@cromaresme.com

1.4 EMERGENCY TELEPHONE NUMBER: +34 93 7919950 (9:00-18:00 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification in accordance with Regulation (EU) No. 1272/2008~2017/776 (CLP):
WARNING: Flam. Liq. 3:H226 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | Skin Sens. 1:H317 | STOT SE (irrit.) 3:H335 | STOT RE 2:H373i | Aquatic Chronic 2:H411

Danger class	Classification of the mixture	Cat.	Routes of exposure	Target organs	Effects
Physicochemical: 	Flam. Liq. 3:H226	Cat.3	-	-	-
Human health: 	Skin Irrit. 2:H315	Cat.2	Skin	Skin	Irritation
	Eye Irrit. 2:H319	Cat.2	Eyes	Eyes	Irritation
	Skin Sens. 1:H317	Cat.1	Skin	Skin	Allergy
	STOT SE (irrit.) 3:H335	Cat.3	Inhalation	Respiratory tract	Irritation
	STOT RE 2:H373i	Cat.2	Inhalation	Systemic	Damage
Environment: 	Aquatic Chronic 2:H411	Cat.2	-	-	-

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 WARNING in accordance with Regulation (EU) No. 1272/2008~2017/776 (CLP)

Hazard statements:

H226	Flammable liquid and vapour.
H373i	May cause damage to organs through prolonged or repeated exposure if inhaled.
H319	Causes serious eye irritation.
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:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges.
P260	Do not breathe vapours, spray.
P264a	Wash the hands thoroughly after handling.
P280C	Wear protective gloves, clothing and eye 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-P391-P501c	Avoid release to the environment. Collect spillage. Dispose of contents/container as hazardous waste.

Supplementary statements:

EUH208	Contains polyhydroxyalkylamides. May produce an allergic reaction.

Substances that contribute to classification:
Xylene (mixture of isomers)
Epoxy resin (average molecular weight ~1000)
Ethylbenzene
Hydrocarbons C9-C12 (aromatics 2-25%)

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:
Mixture of pigments, extenders, resins and additives in organic solvents.

HAZARDOUS INGREDIENTS:
Substances taking part in a percentage higher than the exemption limit:

15 < 20 %	Xylene (mixture of isomers) CAS: 1330-20-7 , EC: 215-535-7 REACH: 01-2119488 216-32 CLP: Danger: Flam. Liq. 3:H226 | Acute Tox. (inh.) 4:H332 | Acute Tox. (skin) 4:H312 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | STOT SE (irrit.) 3:H335 | STOT RE 2:H373i | Asp. Tox. 1:H304	Index No. 601-022-00-9 < REACH
15 < 20 %	Epoxy resin (average molecular weight ~1000) CAS: 25036-25-3 , List No. 607-500-3 CLP: Warning: Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | Skin Sens. 1:H317	Autoclassified
5 < 10 %	Trizinc bis(orthophosphate) CAS: 7779-90-0 , EC: 231-944-3 REACH: 01-2119485 044-40 CLP: Warning: Aquatic Acute 1:H400 | Aquatic Chronic 1:H410	Index No. 030-011-00-6 < REACH / CLP00
2,5 < 5 %	Isobutylmethylketone CAS: 108-10-1 , EC: 203-550-1 REACH: 01-2119473 980-30 CLP: Danger: Flam. Liq. 2:H225 | Acute Tox. (inh.) 4:H332 | Eye Irrit. 2:H319 | STOT SE (irrit.) 3:H335 | EUH066	Index No. 606-004-00-4 < REACH / CLP00
1 < 3 %	Ethylbenzene CAS: 100-41-4 , EC: 202-849-4 REACH: 01-2119489 370-35 CLP: Danger: Flam. Liq. 2:H225 | Acute Tox. (inh.) 4:H332 | STOT RE 2:H373iE | Asp. Tox. 1:H304 | Aquatic Chronic 3:H412	Index No. 601-023-00-4 < REACH
1 < 2 %	Hydrocarbons C9 aromatics (CAS: 64742-95-6) , List No. 918-668-5 REACH: 01-2119455 851-35 CLP: Danger: Flam. Liq. 3:H226 | STOT SE (irrit.) 3:H335 | STOT SE (narcosis) 3:H336 | Asp. Tox. 1:H304 | Aquatic Chronic 2:H411 | EUH066	Autoclassified < REACH
1 < 2 %	Zinc phosphate modified with AlP O4+Zn O List No. 910-478-0 CLP: Aquatic Chronic 2:H411	Autoclassified
1 < 2 %	Butan-1-ol CAS: 71-36-3 , EC: 200-751-6 REACH: 01-2119484 630-38 CLP: Danger: Flam. Liq. 3:H226 | Acute Tox. (oral) 4:H302 | Skin Irrit. 2:H315 | Eye Dam. 1:H318 | STOT SE (irrit.) 3:H335 | STOT SE (narcosis) 3:H336	Index No. 603-004-00-6 < REACH / ATP01
1 < 2 %	1-methoxy-2-propanol CAS: 107-98-2 , EC: 203-539-1 REACH: 01-2119457 435-35 CLP: Warning: Flam. Liq. 3:H226 | STOT SE (narcosis) 3:H336	Index No. 603-064-00-3 < REACH / ATP01
< 0,25 %	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (CAS: 64742-82-1) , List No. 919-446-0 CLP: Danger: Flam. Liq. 3:H226 | STOT SE (narcosis) 3:H336 | STOT RE 1:H372i | Asp. Tox. 1:H304 | Aquatic Chronic 2:H411 | EUH066	Autoclassified < REACH
< 0,20 %	Zinc oxide CAS: 1314-13-2 , EC: 215-222-5 REACH: 01-2119463 881-32 CLP: Warning: Aquatic Acute 1:H400 | Aquatic Chronic 1:H410	Index No. 030-013-00-7 < REACH / CLP00
< 0,15 %	Cocoalkyldimethylamine CAS: 61788-93-0 , EC: 263-020-0 CLP: Danger: Acute Tox. (oral) 4:H302 | Skin Corr. 1B:H314 | Aquatic Acute 1:H400	Autoclassified
< 0,15 %	Polyhydroxyalkylamides EC: 430-050-2 REACH: 01-0000017633-70 CLP: Warning: Skin Sens. 1:H317 | Aquatic Chronic 2:H411	Index No. 616-127-00-5 < REACH / 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 15/01/2018.
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:

Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. 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. 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.
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. If irritation persists, consult a physician.
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

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 CO_2. 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:
Fire can produce a dense black smoke. 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.

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. The zones with risc of explosion should be marked. Use instruments, systems and protective equipment adequate to the classification of zones, according to the health and safety at work laws, in accordance with Directive 94/9/EC and 99/92/EC. Electrical equipment should be protected to the appropriate standard. No tools with a potential for sparks should be used. Elaborate the document 'Protection against explosions'.

- Flash point	:	24*	ºC
- Autoignition temperature	:	445*	ºC
- Upper/lower flammability or explosive limits	:	1.2* - 7.9*	% Vdume 25ºC
- Upper/lower flammability or explosive limits	:	0.8* - 10.8*	% Vdume 300ºC

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:
Product dangerous to the environment. 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. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, 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	:	13. months
Temperature interval	:	min: 5. ºC, max: 40. ºC (recommended).

Incompatible materials:
Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.
Type of packaging:
According to current legislation.

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

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-2017:
Not established.

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 aoccupational 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	
Xylene (mixture of isomers)	289. (a)	77.0 (c)	s/r (a)	180. (c)	- (a)	- (c)
Trizinc bis(orthophosphate)	s/r (a)	5.00 (c)	s/r (a)	83.0 (c)	- (a)	- (c)
Isobutylmethylketone	208. (a)	83.0 (c)	- (a)	11.8 (c)	- (a)	- (c)
Ethylbenzene	s/r (a)	77.0 (c)	s/r (a)	180. (c)	- (a)	- (c)
Hydrocarbons C9 aromatics	- (a)	150. (c)	- (a)	25.0 (c)	- (a)	- (c)
Butan-1-ol	- (a)	310. (c)	- (a)	- (c)	- (a)	- (c)
1-methoxy-2-propanol	- (a)	369. (c)	- (a)	50.6 (c)	- (a)	- (c)
Zinc oxide	s/r (a)	5.00 (c)	s/r (a)	83.0 (c)	- (a)	- (c)
Polyhydroxyalkylamides	- (a)	- (c)	- (a)	- (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	
Xylene (mixture of isomers)	289. (a)	s/r (c)	s/r (a)	s/r (c)	- (a)	- (c)
Trizinc bis(orthophosphate)	s/r (a)	s/r (c)	s/r (a)	s/r (c)	s/r (a)	- (c)
Isobutylmethylketone	208. (a)	83.0 (c)	- (a)	- (c)	- (a)	- (c)
Ethylbenzene	293. (a)	s/r (c)	s/r (a)	s/r (c)	- (a)	- (c)
Hydrocarbons C9 aromatics	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Butan-1-ol	- (a)	310. (c)	- (a)	- (c)	- (a)	- (c)
1-methoxy-2-propanol	554. (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Zinc oxide	s/r (a)	s/r (c)	s/r (a)	s/r (c)	- (a)	- (c)
Polyhydroxyalkylamides	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)

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

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermitent release:	PNEC Fresh water mg/l	PNEC Marine mg/l	PNEC Intermittent mg/l
Xylene (mixture of isomers)	0.327	0.327	0.327
Trizinc bis(orthophosphate)	0.0206	0.00610	-
Isobutylmethylketone	0.600	0.0600	1.50
Ethylbenzene	0.100	0.0100	0.100
Hydrocarbons C9 aromatics	uvcb	uvcb	uvcb
Butan-1-ol	0.0820	0.00820	2.25
1-methoxy-2-propanol	10.0	1.00	100.
Zinc oxide	0.0206	0.00610	-
Polyhydroxyalkylamides	-	-	-

- Wastewater treatment plants (STP) and sediments in fresh- and marine water:	PNEC STP mg/l	PNEC Sediments mg/kg dry weight	PNEC Sediments mg/kg dry weight
Xylene (mixture of isomers)	6.58	12.5	12.5
Trizinc bis(orthophosphate)	0.100	118.	56.5
Isobutylmethylketone	27.5	8.27	0.830
Ethylbenzene	9.60	13.7	1.37
Hydrocarbons C9 aromatics	uvcb	uvcb	uvcb
Butan-1-ol	2476.	0.178	0.0178
1-methoxy-2-propanol	100.	52.3	5.20
Zinc oxide	0.100	118.	56.5
Polyhydroxyalkylamides	-	-	-

Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans:	PNEC Air mg/m3	PNEC Soil mg/kg dry weight	PNEC Oral mg/kg bw/d
Xylene (mixture of isomers)	-	2.31	-
Trizinc bis(orthophosphate)	-	35.6	n/b
Isobutylmethylketone	-	1.30	-
Ethylbenzene	-	2.68	20.0
Hydrocarbons C9 aromatics	uvcb	uvcb	uvcb
Butan-1-ol	-	0.0150	-
1-methoxy-2-propanol	-	5.49	-
Zinc oxide	-	35.6	n/b
Polyhydroxyalkylamides	-	-	-

(-) - PNEC not available (without data of registration REACH).
n/b - PNEC not derived (not bioaccumulative potential).
uvcb - The substance has an unknown or variable composition (UVCB). The conventional methods to derive the PNEC are not appropriate and it is not possible to identify a single PNEC representative for these substances, and therefore not used in calculations for risk assessment.

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. Avoid the inhalation of particles or spray mist arising from the application of this preparation.
Protection of eyes and face: It is recommended to install emergency eye baths close to the working area.
Protection of hands and skin: It is recommended to install emergency showers 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: Directive 89/686/EEC~96/58/EC:
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 EC 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:  ✓	Suitable combined filter mask for gases, vapours and particles (EN14387/EN143). 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. If mask use is not sufficient, when operators, whether spraying or not, are inside the spraybooth, and ventilation is unlikely to be sufficient to constantly control particulates and solvent vapour in all cases, in such circumstances they should wear a compressed air-fed respiratory protective equipment (EN137) during the spraying process and until such a time as the particulates and solvent vapour concentration has fallen below the exposure limits.
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:	No.
Gloves:  ✓	Gloves resistant against chemicals (EN374). The breakthrough time of the selected glove material should be in accordance with the pretended period of use. 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. 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. 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:	No.
Clothing:	It is advisable personnel wear antistatic clothing made of natural fibre or high temperature resistant synthetic fibre.

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

ENVIRONMENTAL EXPOSURE CONTROLS:
Avoid any spillage in the environment of the product, wastes, packages or spraybooth sewages. Avoid any release into the atmosphere above the legal limits allowed.

Spills on the soil: Prevent contamination of soil.

Spills in water: Toxic to aquatic organisms. May cause long-term adverse effects on the aquatic environment. 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. Emissions from ventilation equipment or work processes should be evaluated to verify compliance with the requirements of the legislation on the prevention of environment. In some cases it will be necessary to use fume scrubbers, filters or modifications in the design of process equipment to reduce emissions to an acceptable level.
- VOC (industrial installations): 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: 17) Manufacture of paints and varnishes. Solvents : 31.5% Weight , VOC (supply) : 31.5% Weight, VOC : 26.8% C (expressed as carbon) , Molecular weight (average) : 104.8 , Number C atoms (average) : 7.4.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

- Physical state	:	Liquid.		
- Colour	:	Yellow.		
- Odour	:	Characteristic.		
- Odour threshold	:	Not available (mixture).		
pH-value				
- pH	:	Not applicable (non-aqueous media).		
Change of state				
- Melting point	:	Not applicable (mixture).		
- Initial boiling point	:	115.9*	ºC at 760 mmHg	
Density				
- Vapour density	:	Not available		
- Relative density	:	1.485 ± 0.045	at 20/4ºC	Relative water
Stability				
- Decomposition temperature	:	Not available (technical impossibility to obtain the data).		
Viscosity:				
- Dynamic viscosity	:	410.	cps 20ºC	
- Kinematic viscosity	:	95.	mm2/s at 40ºC	
- Viscosity (Krebs-Stormer)	:	65* ± 2.	KU 20ºC	
Volatility:				
- Evaporation rate	:	Not available (lack of data).		
- Vapour pressure	:	6.1*	mmHg at 20ºC	
- Vapour pressure	:	4.4*	kPa at 50ºC	
Solubility(ies)				
- Solubility in water:	:	Not miscible		
- Liposolubility	:	Not available (mixture untested).		
- Partition coefficient: n-octanol/water	:	Not applicable (mixture).		
Flammability:				
- Flash point	:	24*	ºC	
- Upper/lower flammability or explosive limits	:	1.2* - 7.9*	% Vdume 25ºC	
- Upper/lower flammability or explosive limits	:	0.8* - 10.8*	% Vdume 300ºC	
- Autoignition temperature	:	445*	ºC	

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:

- Heat of combustion	:	4457*	Kcal/kg
- Solids	:	47.5	% Vdume
- VOC (supply)	:	31.5	% Weight
- VOC (supply)	:	467.1	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:
Not applicable.
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 oxidizing agents, acids, 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: 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. 1272/2008~2017/776 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations for individual ingredients :	DL50 (OECD 401) mg/kg oral	DL50 (OECD 402) mg/kg cutaneous	CL50 (OECD 403) mg/m3.4h inhalation
Xylene (mixture of isomers)	4300. Rat	1700. Rabbit	> 22080. Rat
Epoxy resin (average molecular weight ~1000)	> 5000. Rat	4000. Rabbit	
Trizinc bis(orthophosphate)	> 5000. Rat		> 5410. Rat
Isobutylmethylketone	2080. Rat	> 20000. Rabbit	> 8200. Rat
Ethylbenzene	3500. Rat	15400. Rabbit	> 17400. Rat
Hydrocarbons C9 aromatics	3592. Rat	3160. Rabbit	> 6193. Rat
Zinc phosphate modified with AlP O4+Zn O	> 5000. Rat		
Butan-1-ol	790. Rat	3430. Rabbit	> 24665. Rat
1-methoxy-2-propanol	4016. Rat	13000. Rabbit	> 54600. Rat
Hydrocarbons C9-C12 (aromatics 2-25%)	> 5000. Rat	> 2000. Rabbit	> 13100. Rat
Zinc oxide	> 5000. Rat		> 5700. Rat
Cocoalkyldimethylamine	1450. Rat	4290. Rabbit	
Polyhydroxyalkylamides	> 5000. Rat	> 2000. Rat	

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).	CLP 3.1.3.6.
Skin: Not classified	ATE > 2000 mg/kg	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	CLP 3.1.3.6.
Eyes: Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).	CLP 1.2.5.
Ingestion: Not classified	ATE > 5000 mg/kg	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).	CLP 3.1.3.6.

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.	CLP 1.2.6. 3.8.3.4.
Skin corrosion/irritation:	Skin	Cat.2	IRRITANT: Causes skin irritation.	CLP 3.2.3.3.
Serious eye damage/irritation:	Eyes	Cat.2	IRRITANT: Causes serious eye irritation.	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).	CLP 3.4.3.3.
Skin sensitisation:	Skin	Cat.1	SENSITISING: May cause an allergic skin reaction.	CLP 3.4.3.3.

CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.
CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components.
CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components.
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).	CLP 3.10.3.3.

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
Systemic:	RE	Systemic	Cat.2	HARMFUL: May cause damage to organs through prolonged or repeated exposure if inhaled.	CLP 3.8.3.4.
Respiratory:	SE	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	CLP 3.8.3.4.

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.
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. Liquid splashes in the eyes may cause irritation and reversible damage. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours. Harmful by inhalation. Harmful in contact with skin. Irritating to skin. May cause sensitization by skin contact.
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.

INTERACTIVE EFFECTS:
Not available.

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

ADDITIONAL INFORMATION:
Not available.

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. 1272/2008~2017/776 (CLP).

12.1 TOXICITY:

Acute toxicity in aquatic environment for individual ingredients :	CL50 (OECD 203) mg/l.96hours	CE50 (OECD 202) mg/l.48hours	CE50 (OECD 201) mg/l.72hours
Xylene (mixture of isomers)	14. Fishes	16. Daphnia	> 10. Algae
Trizinc bis(orthophosphate)	0.27 Fishes	0.14 Daphnia	0.26 Algae
Isobutylmethylketone	179. Fishes	200. Daphnia	400. Algae
Ethylbenzene	12. Fishes	1.8 Daphnia	33. Algae
Hydrocarbons C9 aromatics	9.2 Fishes	3.2 Daphnia	2.9 Algae
Zinc phosphate modified with AlP O4+Zn O	6.3 Fishes	63. Daphnia	92. Algae
Butan-1-ol	1376. Fishes	1328. Daphnia	500. Algae
1-methoxy-2-propanol	20800. Fishes	23300. Daphnia	> 1000. Algae
Hydrocarbons C9-C12 (aromatics 2-25%)	> 10. Fishes	> 10. Daphnia	4.6 Algae
Zinc oxide	1.8 Fishes	1.7 Daphnia	0.17 Algae
Cocoalkyldimethylamine	0.71 Fishes	0.083 Daphnia	0.023 Algae
Polyhydroxyalkylamides	> 1000. Fishes	16. Daphnia	4.1 Algae
No observed effect concentration	NOEC (OECD 210) mg/l.28days	NOEC (OECD 211) mg/l.21days	NOEC (OECD 201) mg/l.72hours
Isobutylmethylketone		30. Daphnia	
Butan-1-ol		4.1 Daphnia	

Lowest observed effect concentration
Not available

12.2 PERSISTENCE AND DEGRADABILITY:
Not available.

Aerobic biodegradation for individual ingredients :	DQO mgO2/g	%DBO/DQO 5 days	14 days	28 days	Biodegradability
Xylene (mixture of isomers)	2620.	~ 52.	~ 81.	~ 88.	Easy
Epoxy resin (average molecular weight ~1000)					Not easy
Isobutylmethylketone	2716.				Easy
Ethylbenzene	3164.	~ 30.	~ 68.	~ 79.	Easy
Hydrocarbons C9 aromatics	3195.				Easy
Butan-1-ol	2590.	~ 68.	~ 92.	~ 99.	Easy
1-methoxy-2-propanol	1953.		~ 27.	~ 96.	Easy
Hydrocarbons C9-C12 (aromatics 2-25%)					Easy
Zinc oxide				0.	Not available
Cocoalkyldimethylamine					Easy
Polyhydroxyalkylamides				72.	Easy

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

12.3 BIOACCUMULATIVE POTENTIAL:
May bioaccumulate.

Bioaccumulation for individual ingredients :	logPow	BCF L/kg		Potential
Xylene (mixture of isomers)	3.16	57.	(calculated)	Low
Epoxy resin (average molecular weight ~1000)				No bioaccumulable
Isobutylmethylketone	1.19	3.5	(calculated)	No bioaccumulable
Ethylbenzene	3.15	56.	(calculated)	Low
Hydrocarbons C9 aromatics	3.30	70.	(calculated)	Low
Butan-1-ol	0.880	3.2	(calculated)	No bioaccumulable
1-methoxy-2-propanol	-0.490	3.2	(calculated)	No bioaccumulable
Hydrocarbons C9-C12 (aromatics 2-25%)				Not available
Cocoalkyldimethylamine				No bioaccumulable
Polyhydroxyalkylamides				No bioaccumulable

12.4 MOBILITY IN SOIL:
Not available.

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~2005/20/EC, 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

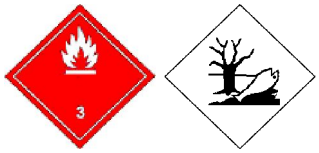
14.1 UN NUMBER: 1263

14.2 UN PROPER SHIPPING NAME:
PAINT

14.3
14.4 TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:

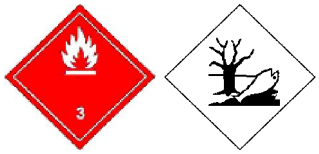
Transport by road (ADR 2017) and
Transport by rail (RID 2017):

- Class: 3
- Packaging 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



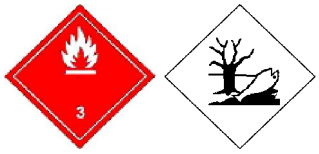
Transport by sea (IMDG 38-16):

- Class: 3
- Packaging group: III
- Emergency Sheet (EmS): F-E,S_E
- First Aid Guide (MFAG): 310,313
- Marine pollutant: Yes.
- Transport document: Shipping Bill of lading.



Transport by air (ICAO/IATA 2017):

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



Transport by inland waterways (ADN):
Not available.

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 industrial use).

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

VOC information on the label:
For use in installations falling under the scope of Directive 2010/75/EC only

OTHER REGULATIONS:

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. 1272/2008~2017/776 (CLP), Annex II
H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. 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. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. 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. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposur emay cause skin dryness or cracking. H372i Causes damage to organs through prolonged or repeated exposure if inhaled. H373i May cause damage to organs through prolonged or repeated exposure if inhaled. H373iE May cause damage to hearing organs through prolonged or repeated exposure if inhaled.

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).
· European agreement on the international carriage of dangerous goods by road, (ADR 2017).
· International Maritime Dangerous Goods Code IMDG including Amendment 38-16 (IMO, 2016).

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 DATASHEET 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: Revision:
Version: 2 20/03/2017