

12091/301 - BARNIZ ANTIOXIDANTE METALES EXTER."C.A" Transparenc Agua

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 Product identifier: 12091/301 - BARNIZ ANTIOXIDANTE METALES EXTER."C.A." Transparenc Aqua

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

Relevant uses: Varnish

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

1.3 Details of the supplier of the safety data sheet:

MONGAY, S.A. C/ Miquel Romeu, 110-112 08907 L'HOSPITALET DE LLOBREGAT - Barcelona - Spain Phone.: +34 93 337 06 43 -Fax: +34 93 337 29 23 mongay@mongay.net www.mongay.net +34 93 337 06 43 (horario laboral)

1.4 Emergency telephone number:

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Directive 67/548/EC and Directive 1999/45/EC:

This product was classified in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting the requirements to Regulation (EC) n°1907/2006 (REACH regulation).

F: R11 - Highly flammable

Xi: R36 - Irritating to eyes

Xn: R20 - Harmful by inhalation

R66 - Repeated exposure may cause skin dryness or cracking

2.2 Label elements:

Directive 67/548/EC and Directive 1999/45/EC:

In accordance with the legislation, the elements on the label are as follows:





R Phrases:

- R11: Highly flammable
- R20: Harmful by inhalation
- R36: Irritating to eyes
- R66: Repeated exposure may cause skin dryness or cracking
- S Phrases:

S16: Keep away from sources of ignition - No smoking

- S2: Keep out of the reach of children
- S43: In case of fire, use polyvalent powder ABC
- S46: If swallowed, seek medical advice immediately and show this container or label
- S9: Keep container in a well-ventilated place

Supplementary information:

P99: Contains d-Limonene. May cause an allergic reaction

2.3 Other hazards:

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description: Mixture composed of additives and resins in solvents

Components:

In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue) Identification Chemical name/Classification Concentration 2-methoxy-1-methylethyl acetate ATP ATP01 CAS: 108-65-6 203-603-9 EC: Directive 67/548/EC R10 25 - <50 % Index: 607-195-00-7 Regulation 1272/2008 REACH:01-2119475791-29-XXX Flam. Liq. 3: H226 - Warning ۲ Acetone ATP CLP00 CAS: 67-64-1 200-662-2 EC Directive 67/548/EC F: R11; Xi: R36; R66; R67 <u>k</u> 🗙 10 - <25 % Index: 606-001-00-8 REACH: 01-2119471330-49-XXX Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger $\widehat{}$ ATP CLP00 2-butanone CAS: 78-93-3 FC: 201-159-0 Directive 67/548/EC F: R11; Xi: R36; R66; R67 X 10 - <25 % Index: 606-002-00-3 ᠕ᢙ REACH: 01-2119457290-43-XXX Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger Xylene (mixture of isomers) Self-classified 1330-20-7 215-535-7 CAS EC: Directive 67/548/EC Xi: R36/37/38; Xn: R20/21, R65; R10 10 - <25 % X Index: 601-022-00-9 REACH:01-2119488216-32-XXXX Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Regulation 1272/2008 Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger ATP CI P00 4-methylpentan-2-one CAS: 108-10-1 FC: 203-550-1 Directive 67/548/EC F: R11; Xi: R36/37; Xn: R20; R66 👋 🗙 10 - <25 % Index: 606-004-00-4 REACH:01-2119473980-30-XXXX Regulation 1272/2008 Acute Tox. 4: H332; Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H335 - Danger Toluene ATP CI POO CAS 108-88-3 EC: 203-625-9 Directive 67/548/EC F: R11; Repr. Cat 3: R63; Xi: R38; Xn: R48/20, R65; R67 1 - < 2.5 % x 🗙 Index: 601-021-00-3 Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 2: REACH:01-2119471310-51-XXX Regulation 1272/2008 H373: STOT SE 3: H336 - Dange d-Limonene ATP CLP00 5989-27-5 CAS: FC: 227-813-5 Directive 67/548/EC N: R50/53; Xi: R38, R43; R10 <1 % Index: 601-029-00-7 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Flam. Liq. 3: H226; Skin Irrit. 2: H315; 🥂 🚯 REACH:01-2119529223-47-XXXX Regulation 1272/2008 Skin Sens. 1: H317 - Warning **Phosphoric Acid** ATP CLP00 7664-38-2 CAS: EC: 231-633-2 Directive 67/548/EC C: R34 <1 % Index: 015-011-00-6 REACH:01-2119485924-24-XXX Regulation 1272/2008 Skin Corr. 1B: H314 - Dange

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

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

By inhalation:

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

By skin contact:

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

By eye contact:

Rinse eyes thoroughly with luke warm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product. **By consumption:**

By consumption.

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

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

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

Non-applicable



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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire exginguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

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

5.3 Advice for firefighters:

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

Additional provisions:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

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

6.2 Environmental precautions:

Avoid spillage into an aqueous medium as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into an aqueous medium notify the relevant authority.

6.3 Methods and material for containment and cleaning up:

It is recommended:

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

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

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

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

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

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

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)



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SECTION 7: HANDLING AND STORAGE (continue)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximun Temp.: 35 °C

B.- General conditions for storage

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

7.3 Specific end use(s):

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

Identification		Environmental limits			
2-methoxy-1-methylethyl acetate	IOELV (8h)	50 ppm	275 mg/m ³		
CAS: 108-65-6	IOELV (STEL)	100 ppm	550 mg/m ³		
EC: 203-603-9	Year	2014			
Acetone	IOELV (8h)	500 ppm	1210 mg/m ³		
CAS: 67-64-1	IOELV (STEL)				
EC: 200-662-2	Year	2014			
2-butanone	IOELV (8h)	200 ppm	600 mg/m ³		
CAS: 78-93-3	IOELV (STEL)	300 ppm	900 mg/m ³		
EC: 201-159-0	Year	2014			
4-methylpentan-2-one	IOELV (8h)	20 ppm	83 mg/m ³		
CAS: 108-10-1	IOELV (STEL)	50 ppm	208 mg/m ³		
EC: 203-550-1	Year	2014			
Toluene	IOELV (8h)	50 ppm	192 mg/m ³		
CAS: 108-88-3	IOELV (STEL)	100 ppm	384 mg/m ³		
EC: 203-625-9	Year	2014			
Phosphoric Acid	IOELV (8h)		1 mg/m ³		
CAS: 7664-38-2	IOELV (STEL)		2 mg/m ³		
EC: 231-633-2	Year	2014			

DNEL (Workers):

		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
2-methoxy-1-methylethyl acetate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	153,5 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	Non-applicable	275 mg/m ³	Non-applicable
Acetone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 67-64-1	Dermal	Non-applicable	Non-applicable	186 mg/kg	Non-applicable
EC: 200-662-2	Inhalation	Non-applicable	2420 mg/m ³	1210 mg/m ³	Non-applicable
2-butanone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 78-93-3	Dermal	Non-applicable	Non-applicable	1161 mg/kg	Non-applicable
EC: 201-159-0	Inhalation	Non-applicable	Non-applicable	600 mg/m ³	Non-applicable
Xylene (mixture of isomers)	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	289 mg/m ³	289 mg/m ³	77 mg/m ³	Non-applicable
4-methylpentan-2-one	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-10-1	Dermal	Non-applicable	Non-applicable	11,8 mg/kg	Non-applicable
EC: 203-550-1	Inhalation	208 mg/m ³	208 mg/m ³	83 mg/m ³	83 mg/m ³
Toluene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 108-88-3	Dermal	Non-applicable	Non-applicable	384 mg/kg	Non-applicable
EC: 203-625-9	Inhalation	384 mg/m ³	384 mg/m ³	192 mg/m ³	192 mg/m ³



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

		Short e	Short exposure		xposure
Identification		Systemic	Local	Systemic	Local
d-Limonene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	33,3 mg/m ³	Non-applicable
Phosphoric Acid	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7664-38-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-633-2	Inhalation	Non-applicable	2 mg/m ³	Non-applicable	1 mg/m ³

DNEL (Population):

		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
2-methoxy-1-methylethyl acetate	Oral	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable
CAS: 108-65-6	Dermal	Non-applicable	Non-applicable	54,8 mg/kg	Non-applicable
EC: 203-603-9	Inhalation	Non-applicable	Non-applicable	33 mg/m ³	Non-applicable
Acetone	Oral	Non-applicable	Non-applicable	62 mg/kg	Non-applicable
CAS: 67-64-1	Dermal	Non-applicable	Non-applicable	62 mg/kg	Non-applicable
EC: 200-662-2	Inhalation	Non-applicable	Non-applicable	200 mg/m ³	Non-applicable
2-butanone	Oral	Non-applicable	Non-applicable	31 mg/kg	Non-applicable
CAS: 78-93-3	Dermal	Non-applicable	Non-applicable	412 mg/kg	Non-applicable
EC: 201-159-0	Inhalation	Non-applicable	Non-applicable	106 mg/m ³	Non-applicable
Xylene (mixture of isomers)	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
CAS: 1330-20-7	Dermal	Non-applicable	Non-applicable	108 mg/kg	Non-applicable
EC: 215-535-7	Inhalation	Non-applicable	Non-applicable	14,8 mg/m ³	Non-applicable
4-methylpentan-2-one	Oral	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
CAS: 108-10-1	Dermal	Non-applicable	Non-applicable	4,2 mg/kg	Non-applicable
EC: 203-550-1	Inhalation	Non-applicable	Non-applicable	14,7 mg/m ³	Non-applicable
Toluene	Oral	Non-applicable	Non-applicable	8,13 mg/kg	Non-applicable
CAS: 108-88-3	Dermal	Non-applicable	Non-applicable	226 mg/kg	Non-applicable
EC: 203-625-9	Inhalation	226 mg/m ³	226 mg/m ³	56,5 mg/m ³	56,5 mg/m ³
d-Limonene	Oral	Non-applicable	Non-applicable	4,76 mg/kg	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	8,33 mg/m ³	Non-applicable
Phosphoric Acid	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 7664-38-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 231-633-2	Inhalation	Non-applicable	Non-applicable	Non-applicable	0,73 mg/m ³

PNEC:

Identification				
2-methoxy-1-methylethyl acetate	STP	100 mg/L	Fresh water	0,635 mg/L
CAS: 108-65-6	Soil	0,29 mg/kg	Marine water	0,0635 mg/L
EC: 203-603-9	Intermittent	6,35 mg/L	Sediment (Fresh water)	3,29 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,329 mg/kg
Acetone	STP	100 mg/L	Fresh water	10,6 mg/L
CAS: 67-64-1	Soil	29,5 mg/kg	Marine water	1,06 mg/L
EC: 200-662-2	Intermittent	21 mg/L	Sediment (Fresh water)	30,4 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	3,04 mg/kg
2-butanone	STP	709 mg/L	Fresh water	55,8 mg/L
CAS: 78-93-3	Soil	22,5 mg/kg	Marine water	55,8 mg/L
EC: 201-159-0	Intermittent	55,8 mg/L	Sediment (Fresh water)	284,74 mg/kg
	Oral	1000 g/kg	Sediment (Marine water)	284,7 mg/kg
Xylene (mixture of isomers)	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: 1330-20-7	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 215-535-7	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Identification				
4-methylpentan-2-one	STP	27,5 mg/L	Fresh water	0,6 mg/L
CAS: 108-10-1	Soil	1,3 mg/kg	Marine water	0,06 mg/L
EC: 203-550-1	Intermittent	1,5 mg/L	Sediment (Fresh water)	8,27 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,83 mg/kg
Toluene	STP	13,61 mg/L	Fresh water	0,68 mg/L
CAS: 108-88-3	Soil	2,89 mg/kg	Marine water	0,68 mg/L
EC: 203-625-9	Intermittent	0,68 mg/L	Sediment (Fresh water)	16,39 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	16,39 mg/kg
d-Limonene	STP	1,8 mg/L	Fresh water	0,0054 mg/L
CAS: 5989-27-5	Soil	0,262 mg/kg	Marine water	0,00054 mg/L
EC: 227-813-5	Intermittent	Non-applicable	Sediment (Fresh water)	1,32 mg/kg
	Oral	3,33 g/kg	Sediment (Marine water)	0,13 mg/kg

8.2 Exposure controls:

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

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. In case of using indivudual protection equipment they should have the ""CE marking"" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

- C.- Specific protection for the hands
 - Non-applicable
- D.- Ocular and facial protection
- Non-applicable
- E.- Bodily protection

Non-applicable

F.- Additional emergency measures

It is not necessary to take additional emergency measures.

Environmental exposure controls:

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

Volatil organic compounds:

With regard to Directive 1999/13/EC, this product has the following characteristics:

V.O.C. (Supply):	83,83 % weight
V.O.C. density at 20 °C:	749,99 kg/m ³ (749,99 g/L)
Average carbon number:	5,41
Average molecular weight:	98,88 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 20 °C:	Liquid

Appearance: Viscous

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



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SECT	FION 9: PHYSICAL AND	CHEMICAL PROPER	TIES (continue)
	Color: (Colourless	
		Solvent	
	Volatility:		
	Boiling point at atmospher	c pressure:	97 °C
	Vapour pressure at 20 °C:		9885 Pa
	Vapour pressure at 50 °C:		34355 Pa (34 kPa)
	Evaporation rate at 20 °C:		Non-applicable *
	Product description:		
	Density at 20 °C:		895 kg/m ³
	Relative density at 20 °C:		0,895
	Dynamic viscosity at 20 °C	:	Non-applicable *
	Kinematic viscosity at 20 °	C:	Non-applicable *
	Kinematic viscosity at 40 o	C:	>7 cSt
	Concentration:		Non-applicable *
	pH:		Non-applicable *
	Vapour density at 20 °C:		Non-applicable *
	Partition coefficient n-octai	nol/water 20 ºC:	Non-applicable *
	Solubility in water at 20 °C	:	Non-applicable *
	Solubility property:		Insoluble in water, soluble in organic solvents
	Decomposition temperatur	e:	Non-applicable *
	Melting point/freezing poin	t:	Non-applicable *
	Flammability:		
	Flash Point:	15 °C	
	Autoignition temperature:	237 °C	
	Lower flammability limit:	Not ava	ailable
	Upper flammability limit:	Not ava	ailable
9.2	Other information:		
	Surface tension at 20 °C:	Non-applicable	
	Refraction index:	Non-applicable	
	*Not relevant due to the nature	of the product, not providing	g information property of its hazards.

SECT	ION 10: STABILITY AN	D REACTIVITY					
10.1	Reactivity:						
	No hazardous reactions are	e expected if the following	technical instructions stor	age of chemicals. See sect	tion 7.		
10.2	Chemical stability:						
	Chemically stable under the conditions of storage, handling and use.						
10.3	Possibility of hazardous	s reactions:					
	Under the specified condition	ions, hazardous reactions	that lead to excessive tem	peratures or pressure are	not expected.		
10.4	Conditions to avoid:						
	Applicable for handling and	d storage at room tempera	ature:				
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity		
	Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable		
10.5	Incompatible materials	:					
	Acids	Water	Combustive materials	Combustible materials	Others		
	Not applicable	Not applicable	Avoid direct impact	Avoid direct impact	Not applicable		



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SECTION 10: STABILITY AND REACTIVITY (continue)

10.6 Hazardous decomposition products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

No experimental information is available on the product itself in relation to the toxicological properties. When performing the danger classification on corrosive or irritant effects the recommendations included in section 3.2.5 of Annex VI of Directive 67/548/EC, in paragraphs b) and c) of section 3 of article 6 of Directive 1999/45/EC and in section 3.2.3.3.5. of Annex I of CLP Regulation were taken into account.

Dangerous health implications:

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

A.- Ingestion:

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

B- Inhalation:

Exposure in high concentrations can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion and in serious cases, loss of concentration.

C- Contact with the skin and the eyes:

Produces eye damage after contact.

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

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

E- Sensitizing effects:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with sensibilizing effects. For more information see section 3.

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

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

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

- Repeated exposure may cause skin dryness or cracking
- H- Aspiration hazard:

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

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	A	Acute toxicity		
2-methoxy-1-methylethyl acetate	LD50 oral	8532 mg/kg	Rat	
CAS: 108-65-6	LD50 dermal	5100 mg/kg	Rat	
EC: 203-603-9	LC50 inhalation	30 mg/L (4 h)	Rat	
Acetone	LD50 oral	5800 mg/kg	Rat	
CAS: 67-64-1	LD50 dermal	7426 mg/kg	Rabbit	
EC: 200-662-2	LC50 inhalation	76 mg/L (4 h)	Rat	
2-butanone	LD50 oral	4000 mg/kg	Rat	
CAS: 78-93-3	LD50 dermal	6400 mg/kg	Rabbit	
EC: 201-159-0	LC50 inhalation	23,5 mg/L (4 h)	Rat	
Xylene (mixture of isomers)	LD50 oral	2100 mg/kg	Rat	
CAS: 1330-20-7	LD50 dermal	1100 mg/kg	Rat	
EC: 215-535-7	LC50 inhalation	11 mg/L (4 h)	Rat	



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SECTION 11: TOXICOLOGICAL INFORMATION (continue)

Identification	A	Acute toxicity		
4-methylpentan-2-one	LD50 oral	2080 mg/kg		
CAS: 108-10-1	LD50 dermal	Non-applicable		
EC: 203-550-1	LC50 inhalation	Non-applicable		
Toluene	LD50 oral	5580 mg/kg	Rat	
CAS: 108-88-3	LD50 dermal	12124 mg/kg	Rat	
EC: 203-625-9	LC50 inhalation	28,1 mg/L (4 h)	Rat	
d-Limonene	LD50 oral	4400 mg/kg	Rat	
CAS: 5989-27-5	LD50 dermal	5100 mg/kg	Rabbi	
EC: 227-813-5	LC50 inhalation	Non-applicable		
Phosphoric Acid	LD50 oral	3500 mg/kg	Rat	
CAS: 7664-38-2	LD50 dermal	2470 mg/kg	Rabb	
EC: 231-633-2	LC50 inhalation	Non-applicable		

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Toxicity:

Identification		Acute toxicity	Specie	Genus
2-methoxy-1-methylethyl acetate	LC50	161 mg/L (96 h)	Pimephales promelas	Fish
CAS: 108-65-6	EC50	481 mg/L (48 h)	Daphnia sp.	Crustacea
EC: 203-603-9	EC50	Non-applicable		
Acetone	LC50	5540 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 67-64-1	EC50	23,5 mg/L (48 h)	Daphnia magna	Crustacea
EC: 200-662-2	EC50	3400 mg/L (48 h)	Chlorella pyrenoidosa	Alga
2-butanone	LC50	3220 mg/L (96 h)	Pimephales promelas	Fish
CAS: 78-93-3	EC50	5091 mg/L (48 h)	Daphnia magna	Crustacea
EC: 201-159-0	EC50	4300 mg/L (168 h)	Scenedesmus quadricauda	Alga
Xylene (mixture of isomers)	LC50	13,5 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 1330-20-7	EC50	0,6 mg/L (96 h)	Gammarus lacustris	Crustacea
EC: 215-535-7	EC50	10 mg/L (72 h)	Skeletonema costatum	Alga
4-methylpentan-2-one	LC50	900 mg/L (48 h)	Leuciscus idus	Fish
CAS: 108-10-1	EC50	862 mg/L (24 h)	Daphnia magna	Crustacea
EC: 203-550-1	EC50	980 mg/L (48 h)	Scenedesmus subspicatus	Alga
Toluene	LC50	13 mg/L (96 h)	Carassius auratus	Fish
CAS: 108-88-3	EC50	11,5 mg/L (48 h)	Daphnia magna	Crustacea
EC: 203-625-9	EC50	125 mg/L (48 h)	Scenedesmus subspicatus	Alga
d-Limonene	LC50	0,702 mg/L (96 h)	Pimephales promelas	Fish
CAS: 5989-27-5	EC50	0,577 mg/L (48 h)	Daphnia magna	Crustacea
EC: 227-813-5	EC50	Non-applicable		
Phosphoric Acid	LC50	Non-applicable		
CAS: 7664-38-2	EC50	4,6 mg/L (12 h)	Daphnia magna	Crustacea
EC: 231-633-2	EC50	Non-applicable		

12.2 Persistence and degradability:

Identification	De	gradability	Biodegradability	
2-methoxy-1-methylethyl acetate	BOD5	Non-applicable	Concentration	785 mg/L
CAS: 108-65-6	COD	Non-applicable	Period	8 days
EC: 203-603-9	BOD5/COD	Non-applicable	% Biodegradable	100 %
Acetone	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 67-64-1	COD	Non-applicable	Period	28 days
EC: 200-662-2	BOD5/COD	0.96	% Biodegradable	96 %



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SECTION 12: ECOLOGICAL INFORMATION (continue)

Identification	De	gradability	Biodegradability	
2-butanone	BOD5	2.03 g O2/g	Concentration	Non-applicable
CAS: 78-93-3	COD	2.31 g O2/g	Period	20 days
EC: 201-159-0	BOD5/COD	0.88	% Biodegradable	89 %
4-methylpentan-2-one	BOD5	2.06 g O2/g	Concentration	100 mg/L
CAS: 108-10-1	COD	2.16 g O2/g	Period	14 days
EC: 203-550-1	BOD5/COD	0.95	% Biodegradable	84 %
Toluene	BOD5	2.5 g O2/g	Concentration	100 mg/L
CAS: 108-88-3	COD	Non-applicable	Period	14 days
EC: 203-625-9	BOD5/COD	Non-applicable	% Biodegradable	100 %
d-Limonene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 5989-27-5	COD	Non-applicable	Period	28 days
EC: 227-813-5	BOD5/COD	Non-applicable	% Biodegradable	100 %

12.3 Bioaccumulative potential:

Identification	Bio	Bioaccumulation potential	
2-methoxy-1-methylethyl acetate	BCF	1	
CAS: 108-65-6	Pow Log	0,43	
EC: 203-603-9	Potential	Low	
Acetone	BCF	1	
CAS: 67-64-1	Pow Log	-0,24	
EC: 200-662-2	Potential	Low	
2-butanone	BCF	3	
CAS: 78-93-3	Pow Log	0,29	
EC: 201-159-0	Potential	Low	
Xylene (mixture of isomers)	BCF	9	
CAS: 1330-20-7	Pow Log	2,77	
EC: 215-535-7	Potential	Low	
4-methylpentan-2-one	BCF	2	
CAS: 108-10-1	Pow Log	1,31	
EC: 203-550-1	Potential	Low	
Toluene	BCF	13	
CAS: 108-88-3	Pow Log	2,73	
EC: 203-625-9	Potential	Low	
d-Limonene	BCF	660	
CAS: 5989-27-5	Pow Log	4,83	
EC: 227-813-5	Potential	High	

12.4 Mobility in soil:

Identification	Absor	otion/desorption		Volatility
Acetone	Кос	1	Henry	2,929E+0 Pa·m ³ /mo
CAS: 67-64-1	Conclusion	Very High	Dry soil	Yes
EC: 200-662-2	Surface tension	23040 N/m (25 °C)	Moist soil	Yes
2-butanone	Кос	30	Henry	5,765E+0 Pa·m ³ /mo
CAS: 78-93-3	Conclusion	Very High	Dry soil	Yes
EC: 201-159-0	Surface tension	23960 N/m (25 °C)	Moist soil	Yes
1-methylpentan-2-one	Кос	Non-applicable	Henry	Non-applicable
CAS: 108-10-1	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 203-550-1	Surface tension	23500 N/m (25 °C)	Moist soil	Non-applicable
Toluene	Кос	178	Henry	6,728E+2 Pa·m³/m
CAS: 108-88-3	Conclusion	Moderate	Dry soil	Yes
EC: 203-625-9	Surface tension	27930 N/m (25 °C)	Moist soil	Yes
d-Limonene	Кос	6324	Henry	2,533E+3 Pa·m³/m
CAS: 5989-27-5	Conclusion	Immobile	Dry soil	Yes
EC: 227-813-5	Surface tension	26750 N/m (25 °C)	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:



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SECTION 12: ECOLOGICAL INFORMATION (continue)

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

	Code	Description	Waste class (Directive 2008/98/EC)	
ĺ	08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances	Dangerous	

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) $n^{0}1907/2006$ (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2013 and RID 2013:

14.2	UN number: UN proper shipping name: Transport hazard class(es):	UN1263 PAINT 3		
	Labels:	3		
14.4	Packing group:	II		
14.5	Dangerous for the	No		
	environment:			
14.6	Special precautions for user			
	Special regulations:	163, 640D, 650		
	Tunnel restriction code:	D/E		
	Physico-Chemical properties:	see section 9		
	Limited quantities:	5 L		
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable		
Transport of dangerous goods by sea:				

With regard to IMDG 36-12:



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SECTION 14: TRANSPORT INFORMATION (continue)		
14	UN number:	UN1263
	2 UN proper shipping name:	PAINT
	3 Transport hazard class(es):	3
	Labels:	3
	Packing group:	л П
	5 Dangerous for the	No
3 14.	environment:	
14.0	5 Special precautions for user	
	Special regulations:	163, 944
	EmS Codes:	F-E, S-E
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
14.7	7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable
Transport of dange	ous goods by air:	
With regard to IATA/I	CAO 2014:	
14.:	UN number:	UN1263
14.2	2 UN proper shipping name:	PAINT
14.3	3 Transport hazard class(es):	3
	Labels:	3
3 14.4	Packing group:	II
14.!	5 Dangerous for the environment:	No
14.0	5 Special precautions for user	
	Physico-Chemical properties:	see section 9
14.7	 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: 	Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

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

Contains more than 0,1 % of Toluene by weight. The use of this product is prohibited in adhesives or spray paints for sale to the general public.

Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

- metallic glitter intended mainly for decoration,

- artificial snow and frost,
- "whoopee" cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:



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SECTION 15: REGULATORY INFORMATION (continue)

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009, 2009 No. 716 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885 Control of Substances Hazardous to Health Regulations 2002 (as amended) EH40/2005 Workplace exposure limits The Waste Regulations 2011, 2011 No. 988

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) Nº 1907/2006 (Regulation (EC) Nº 453/2010)

Modifications related to the previous security card which concerns the ways of managing risks. : Non-applicable

Text of R-phrases considered in section 3:

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

Directive 67/548/EC and Directive 1999/45/EC:

R10: Flammable R11: Highly flammable R20: Harmful by inhalation R20/21: Harmful by inhalation and in contact with skin R34: Causes burns R36: Irritating to eyes R36/37: Irritating to eyes and respiratory system R36/37/38: Irritating to eyes, respiratory system and skin R38: Irritating to skin R43: May cause sensitisation by skin contact R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R63: Possible risk of harm to the unborn child

R65: Harmful: may cause lung damage if swallowed

R66: Repeated exposure may cause skin dryness or cracking

R67: Vapours may cause drowsiness and dizziness

CLP Regulation (EC) nº 1272/2008:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled Acute Tox. 4: H332 - Harmful if inhaled Aquatic Acute 1: H400 - Very toxic to aquatic life Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 2: H225 - Highly flammable liquid and vapour Flam. Liq. 3: H226 - Flammable liquid and vapour Repr. 2: H361d - Suspected of damaging the unborn child. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage Skin Irrit. 2: H315 - Causes skin irritation Skin Sens. 1: H317 - May cause an allergic skin reaction STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure through ingestion STOT SE 3: H335 - May cause respiratory irritation STOT SE 3: H336 - May cause drowsiness or dizziness Advice related to training:

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

Principal bibliographical sources:

http://esis.jrc.ec.europa.eu http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:



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SECTION 16: OTHER INFORMATION (continue)

- ADR: European agreement concerning the international carriage of dangerous goods by road
- -IMDG: International maritime dangerous goods code
- -IATA: International Air Transport Association
- -ICAO: International Civil Aviation Organisation
- -COD: Chemical Oxygen Demand
- -BOD5: 5-day biochemical oxygen demand
- -BCF: Bioconcentration factor
- -LD50: Lethal Dose 50
- -CL50: Lethal Concentration 50
- -EC50: Effective concentration 50
- -Log-POW: Octanol–water partition coefficient -Koc: Partition coefficient of organic carbon
- -Roc. Faltition coefficient of organic carbo

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.