

## Safety data sheet

According to 1907/2006/EC (REACH), 453/2010/EC

12035995 - EXTREME SD MAGENTA FIRE


IJS

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

- 1.1 Product identifier:** 12035995 - eXtreme SD Magenta Fire  
IJS
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
 Relevant uses: Printing ink. For professional use only.  
 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:** Chimigraf Ibérica S.L.  
 C/Compositor Carcassi, 6 – 8. Pol. Ind. Can Jardí  
 08191 Rubí - Barcelona - Spain  
 Phone.: +34 93 586 20 40 - Fax: +34 93 588 56 77  
 docum.tecnica@chimigraf.com  
 www.chimigraf.com
- 1.4 Emergency telephone number:** +34618645217

**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).  
 Xi: R41 - Risk of serious damage to eyes  
 Xn: R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed
- 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:
- Xn



Harmful
- R Phrases:**  
 R20/21/22: Harmful by inhalation, in contact with skin and if swallowed  
 R41: Risk of serious damage to eyes
- S Phrases:**  
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
 S36/37/39: Wear suitable protective clothing, gloves and eye/face protection  
 S51: Use only in well-ventilated areas
- Supplementary information:**  
 Non-applicable
- Substances that contribute to the classification:**  
 Ethylene Glycol Monobutyl Ether Acetate
- 2.3 Other hazards:**  
 Non-applicable

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

**Chemical description:** Mixture composed of additives, pigments and resins in solvents

**Components:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 112-07-2 EC: 203-933-3 Index: 607-038-00-2 REACH:01-2119475112-47-XXXX	<b>Ethylene Glycol Monobutyl Ether Acetate</b> ATP CLP00	50 - <75 %
	Directive 67/548/EC Xn: R20/21	
	Regulation 1272/2008 Acute Tox. 4: H312+H332 - Warning	

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)**

Identification	Chemical name/Classification	Concentration
CAS: 96-48-0 EC: 202-509-5 Index: Non-applicable REACH:01-2119471839-21-XXXX	<b>Gamma-butyrolactone</b> Self-classified	10 - <25 %
	Directive 67/548/EC Xi: R41; Xn: R22	
	Regulation 1272/2008 Acute Tox. 4: H302; Eye Dam. 1: H318; STOT SE 3: H336 - Danger	
CAS: 108-65-6 EC: 203-603-9 Index: 607-195-00-7 REACH:01-2119475791-29-XXXX	<b>2-methoxy-1-methylethyl acetate</b> ATP ATP01	2,5 - <10 %
	Directive 67/548/EC R10	
	Regulation 1272/2008 Flam. Liq. 3: H226 - Warning	
CAS: 108-94-1 EC: 203-631-1 Index: 606-010-00-7 REACH:01-2119453616-35-XXXX	<b>Cyclohexanone</b> ATP CLP00	1 - <2,5 %
	Directive 67/548/EC Xn: R20; R10	
	Regulation 1272/2008 Acute Tox. 4: H332; Flam. Liq. 3: H226 - Warning	
CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH:01-2119489370-35-XXXX	<b>Ethylbenzene</b> ATP CLP00	<1 %
	Directive 67/548/EC F: R11; Xn: R20	
	Regulation 1272/2008 Acute Tox. 4: H332; Flam. Liq. 2: H225 - Danger	

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:**

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

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

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

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

Non-applicable

**SECTION 5: FIREFIGHTING MEASURES**
**5.1 Extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use, containing flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use 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 subproducts are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

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### SECTION 5: FIREFIGHTING MEASURES (continue)

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 inflammation, 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 spilled 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:

This product is not classified as dangerous to the environment. Keep product away from drains, surface and underground water.

#### 6.3 Methods and material for containment and cleaning up:

It is recommended:

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

#### 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

##### A.- Precautions for safe manipulation

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

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid projections and pulverizations. 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)

#### 7.2 Conditions for safe storage, including any incompatibilities:

##### A.- Technical measures for storage

Minimum Temp.: 5 °C  
 Maximum Temp.: 30 °C  
 Maximum time: 12 Months

##### B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food

#### 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.

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**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		
	IOELV (8h)	IOELV (STEL)	Year
Ethylene Glycol Monobutyl Ether Acetate CAS: 112-07-2 EC: 203-933-3	20 ppm	133 mg/m <sup>3</sup>	2012
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	50 ppm	275 mg/m <sup>3</sup>	2012
Cyclohexanone CAS: 108-94-1 EC: 203-631-1	10 ppm	40,8 mg/m <sup>3</sup>	2012
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	100 ppm	442 mg/m <sup>3</sup>	2012

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethylene Glycol Monobutyl Ether Acetate CAS: 112-07-2 EC: 203-933-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	102 mg/kg	Non-applicable	102 mg/kg	Non-applicable
	Inhalation	775 mg/m <sup>3</sup>	333 mg/m <sup>3</sup>	133 mg/m <sup>3</sup>	Non-applicable
Gamma-butyrolactone CAS: 96-48-0 EC: 202-509-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	19 mg/kg	Non-applicable
	Inhalation	958 mg/m <sup>3</sup>	Non-applicable	130 mg/m <sup>3</sup>	Non-applicable
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	153,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	275 mg/m <sup>3</sup>	Non-applicable
Cyclohexanone CAS: 108-94-1 EC: 203-631-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	4 mg/kg	Non-applicable	4 mg/kg	Non-applicable
	Inhalation	80 mg/m <sup>3</sup>	80 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
	Inhalation	Non-applicable	293 mg/m <sup>3</sup>	77 mg/m <sup>3</sup>	Non-applicable

**DNEL (Population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Ethylene Glycol Monobutyl Ether Acetate CAS: 112-07-2 EC: 203-933-3	Oral	18 mg/kg	Non-applicable	4,3 mg/kg	Non-applicable
	Dermal	27 mg/kg	Non-applicable	36 mg/kg	Non-applicable
	Inhalation	499 mg/m <sup>3</sup>	166 mg/m <sup>3</sup>	67 mg/m <sup>3</sup>	Non-applicable
Gamma-butyrolactone CAS: 96-48-0 EC: 202-509-5	Oral	Non-applicable	Non-applicable	8 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	8 mg/kg	Non-applicable
	Inhalation	340 mg/m <sup>3</sup>	Non-applicable	28 mg/m <sup>3</sup>	Non-applicable
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	54,8 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	33 mg/m <sup>3</sup>	Non-applicable
Cyclohexanone CAS: 108-94-1 EC: 203-631-1	Oral	1,5 mg/kg	Non-applicable	1,5 mg/kg	Non-applicable
	Dermal	1 mg/kg	Non-applicable	1 mg/kg	Non-applicable
	Inhalation	20 mg/m <sup>3</sup>	40 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	20 mg/m <sup>3</sup>
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	15 mg/m <sup>3</sup>	Non-applicable

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**

Identification				
Ethylene Glycol Monobutyl Ether Acetate CAS: 112-07-2 EC: 203-933-3	STP	90 mg/L	Fresh water	0,304 mg/L
	Soil	0,68 mg/kg	Marine water	0,0304 mg/L
	Intermittent	0,56 mg/L	Sediment (Fresh water)	2,03 mg/kg
	Oral	60 g/kg	Sediment (Marine water)	0,203 mg/kg
Gamma-butyrolactone CAS: 96-48-0 EC: 202-509-5	STP	452 mg/L	Fresh water	0,056 mg/L
	Soil	0,014683 mg/kg	Marine water	0,0056 mg/L
	Intermittent	0,56 mg/L	Sediment (Fresh water)	0,24 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,02 mg/kg
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	STP	100 mg/L	Fresh water	0,635 mg/L
	Soil	0,29 mg/kg	Marine water	0,0635 mg/L
	Intermittent	6,35 mg/L	Sediment (Fresh water)	3,29 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,329 mg/kg
Cyclohexanone CAS: 108-94-1 EC: 203-631-1	STP	10 mg/L	Fresh water	0,0329 mg/L
	Soil	0,0143 mg/kg	Marine water	0,00329 mg/L
	Intermittent	0,329 mg/L	Sediment (Fresh water)	0,168 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0168 mg/kg
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	STP	9,6 mg/L	Fresh water	0,1 mg/L
	Soil	2,68 mg/kg	Marine water	0,01 mg/L
	Intermittent	0,1 mg/L	Sediment (Fresh water)	13,7 mg/kg
	Oral	20 g/kg	Sediment (Marine water)	1,37 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 individual 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**

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

**C.- Specific protection for the hands**

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
	NON-disposable chemical protective gloves	<b>CE</b> CAT III	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

**D.- Ocular and facial protection**

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
	Face mask	<b>CE</b> CAT II	EN 166:2001 EN 167:2001 EN 168:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN 165:2005	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

**E.- Bodily protection**

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	 CE CAT III	EN 13034:2005+A1:2009 EN 168:2001 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	 CE CAT III	EN ISO 20345:2011 EN 13832-1:2006 EN ISO 20344:2011	Replace boots at any sign of deterioration.

**F.- Additional emergency measures**

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

**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):	91,06 % weight
V.O.C. density at 20 °C:	898,75 kg/m <sup>3</sup> (898,75 g/L)
Average carbon number:	7,2
Average molecular weight:	146,17 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:	Not available
Color:	Not available
Odor:	Not available

**Volatility:**

Boiling point at atmospheric pressure:	186 °C
Vapour pressure at 20 °C:	133 Pa
Vapour pressure at 50 °C:	777 Pa (1 kPa)
Evaporation rate at 20 °C:	Non-applicable *

**Product description:**

Density at 20 °C:	987 kg/m <sup>3</sup>
Relative density at 20 °C:	0,987
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *

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

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)**

pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility property:	Non-applicable *
Decomposition temperature:	Non-applicable *

**Flammability:**

Flash Point:	70 °C
Autoignition temperature:	300 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

**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 information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**
**10.1 Reactivity:**

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

**10.2 Chemical stability:**

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

**10.3 Possibility of hazardous reactions:**

Under the conditions no hazardous reactions are expected to produce a pressure or excessive temperatures.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

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

**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 (CO<sub>2</sub>), 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:**

The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

**B- Inhalation:**

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**SECTION 11: TOXICOLOGICAL INFORMATION (continue)**

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 serious eye damage after contact.

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

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

E- Sensitizing effects:

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

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

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

H- Aspiration hazard:

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

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
Ethylene Glycol Monobutyl Ether Acetate CAS: 112-07-2 EC: 203-933-3	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1480 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (4 h)	Rat
Gamma-butyrolactone CAS: 96-48-0 EC: 202-509-5	LD50 oral	1300 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LD50 oral	8532 mg/kg	Rat
	LD50 dermal	5000 mg/kg	Rat
	LC50 inhalation	30 mg/L (4 h)	Rat
Cyclohexanone CAS: 108-94-1 EC: 203-631-1	LD50 oral	2650 mg/kg	Rat
	LD50 dermal	3160 mg/kg	Rabbit
	LC50 inhalation	11 mg/L (4 h)	Rat
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LD50 oral	3500 mg/kg	Rat
	LD50 dermal	15354 mg/kg	Rabbit
	LC50 inhalation	17,2 mg/L (4 h)	Rat

**SECTION 12: ECOLOGICAL INFORMATION**

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

**12.1 Toxicity:**

Identification	Acute toxicity		Specie	Genus
Ethylene Glycol Monobutyl Ether Acetate CAS: 112-07-2 EC: 203-933-3	LC50	80 mg/L (48 h)	Leuciscus idus	Fish
	EC50	37 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	500 mg/L (72 h)	Scenedesmus subspicatus	Alga
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LC50	161 mg/L (96 h)	Pimephales promelas	Fish
	EC50	481 mg/L (48 h)	Daphnia sp.	Crustacean
	EC50	Non-applicable		
Cyclohexanone CAS: 108-94-1 EC: 203-631-1	LC50	527 mg/L (96 h)	Pimephales promelas	Fish
	EC50	800 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	370 mg/L (192 h)	Scenedesmus quadricauda	Alga

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**SECTION 12: ECOLOGICAL INFORMATION (continue)**

Identification	Acute toxicity		Specie	Genus
	LC50			
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LC50	42,3 mg/L (96 h)	Pimephales promelas	Fish
	EC50	75 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	63 mg/L (3 h)	Chlorella vulgaris	Alga

**12.2 Persistence and degradability:**

Identification	Degradability		Biodegradability	
Ethylene Glycol Monobutyl Ether Acetate CAS: 112-07-2 EC: 203-933-3	BOD5	Non-applicable	Concentration	30 mg/L
	Code	Non-applicable	Period	28 days
	BOD5/COD	0.51	% Biodegradable	77,3 %
Gamma-butyrolactone CAS: 96-48-0 EC: 202-509-5	BOD5	Non-applicable	Concentration	100 mg/L
	Code	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	77 %
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BOD5	Non-applicable	Concentration	785 mg/L
	Code	Non-applicable	Period	8 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %
Cyclohexanone CAS: 108-94-1 EC: 203-631-1	BOD5	Non-applicable	Concentration	100 mg/L
	Code	Non-applicable	Period	14 days
	BOD5/COD	0.65	% Biodegradable	87 %
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	BOD5	Non-applicable	Concentration	100 mg/L
	Code	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %

**12.3 Bioaccumulative potential:**

Identification	Bioaccumulation potential	
Ethylene Glycol Monobutyl Ether Acetate CAS: 112-07-2 EC: 203-933-3	BCF	3
	Pow Log	1,51
	Potential	Low
Gamma-butyrolactone CAS: 96-48-0 EC: 202-509-5	BCF	3
	Pow Log	-0,64
	Potential	Low
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BCF	1
	Pow Log	0,43
	Potential	Low
Cyclohexanone CAS: 108-94-1 EC: 203-631-1	BCF	2
	Pow Log	0,81
	Potential	Low
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	BCF	1
	Pow Log	3,15
	Potential	Low

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
Ethylene Glycol Monobutyl Ether Acetate CAS: 112-07-2 EC: 203-933-3	Koc	Non-applicable	Henry	5,532E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Non-applicable	Dry soil	No
	Surface tension	Non-applicable	Moist soil	Yes
Gamma-butyrolactone CAS: 96-48-0 EC: 202-509-5	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	38540 N/m (25 °C)	Moist soil	Non-applicable
Cyclohexanone CAS: 108-94-1 EC: 203-631-1	Koc	17	Henry	9,119E-1 Pa·m <sup>3</sup> /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	34370 N/m (25 °C)	Moist soil	Yes
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Koc	520	Henry	7,984E+2 Pa·m <sup>3</sup> /mol
	Conclusion	Moderate	Dry soil	Yes
	Surface tension	28590 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)
08 03 12*	Waste ink containing 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°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**

This product is not regulated for transport (ADR/RID,IMDG,IATA)

**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) 689/2008, 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):**

Non-applicable

**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:

Non-applicable

**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) N° 1907/2006 (Regulation (EC) N° 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:**

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

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### SECTION 16: OTHER INFORMATION (continue)

R10: Flammable  
 R11: Highly flammable  
 R20: Harmful by inhalation  
 R20/21: Harmful by inhalation and in contact with skin  
 R22: Harmful if swallowed  
 R41: Risk of serious damage to eyes

#### CLP Regulation (EC) n° 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.  
 Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled  
 Acute Tox. 4: H332 - Harmful if inhaled.  
 Eye Dam. 1: H318 - Causes serious eye damage.  
 Flam. Liq. 2: H225 - Highly flammable liquid and vapour.  
 Flam. Liq. 3: H226 - Flammable liquid and vapour.  
 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:

- 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

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.

- END OF SAFETY DATA SHEET -