



BICOLOR W10  
Code: VE040101



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

1.1	<u>PRODUCT IDENTIFIER:</u>	BICOLOR W10 Code: VE040101
1.2	<u>RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:</u> <u>Intended uses (main technical functions):</u> Additive. <u>Uses advised against:</u> 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'. If your use is not covered, please contact the supplier of this material safety data sheet. <u>Restrictions on manufacture, placing on market and use, according to Amex XVII of Regulation (EC) No 1907/2006:</u> Not restricted.	[X] Industrial [ ] Professional [ ] Consumers
1.3	<u>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</u> BERKEM, S.r.l. Via G. Galilei 1/a - 35030 - CASELLE DI SELVAZZANO DENTRO (PD) - Italia Phone: (+39) 049 8978072 - Fax: (+39) 049 635018 <u>E-mail address of the person responsible for the safety data sheet:</u> g.bersaglio@berkem.it	
1.4	<u>EMERGENCY TELEPHONE NUMBER:</u> (+39) 049 8978072 (8:30-12:30 / 14:00-18:00 h.) (working hours)	

**SECTION 2 : HAZARDS IDENTIFICATION**

2.1	<u>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:</u> <u>Classification in accordance with Regulation (EC) No. 1272/2008~286/2011 (CLP):</u> DANGER: Skin Irrit. 2:H315   Eye Irrit. 2:H319   STOT SE (irrit) 3:H335   STOT SE (narcosis) 3:H336   STOTRE 2:H373   Asp. Tox. 1:H304   EUH066					
	<u>Danger class</u>	<u>Classification of the mixture</u>	<u>Cat.</u>	<u>Routes of exposure</u>	<u>Target organs</u>	<u>Effects</u>
	<u>Physicochemical:</u> Not classified	Skin Irrit. 2:H315 Eye Irrit. 2:H319 STOT SE (irrit) 3:H335 STOT SE (narcosis) 3 H336	Cat.2 Cat.2 Cat.3 Cat.3	Skin Eyes Inhalation Inhalation	Skin Eyes Respiratory system CNS	Irritation Irritation Narcosis Damage
	<u>Human health:</u> 	STOT RE 2:H373 Asp. Tox. 1:H304 EUH066	Cat.2 Cat.1 -	Ingestion+Aspiration Skin	Systemic Lungs Skin	Narcosis Damage Dead Dryness, Cracking
	<u>Environment:</u> Not classified					
	<u>Classification in accordance with Directive 1999/45/EC~2006/8/EC (DPD):</u> F:R11   Xn:R20/21   XiR36/38   R66- R67					

2.2	<u>LABEL ELEMENTS:</u> 	This product is labelled with the signal word DANGER in accordance with Regulation (EC) No. 1272/2008~286/2011 (CLP)
	<u>Hazard statements:</u> H373 H304 H319 H335 H315 H336	May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. May cause drowsiness or dizziness.
	<u>Precautionary statements:</u> P271 P280F P301+P310-P331 P303+P361+P353-P352  P332+P313 P304+P340-P312  P305+P351+P338  P337+P313 P501c	Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Dispose of contents/container as hazardous waste.
	<u>Supplementary statements:</u> None. <u>Hazardous ingredients:</u> Xylene (mixture of isomers)	

2.3	<u>OTHER HAZARDS:</u> Hazards which do not result in classification but which may contribute to the overall hazards of the mixture: <u>Other physicochemical hazards:</u> Vapours may form with air a mixture potentially flammable or explosive <u>Other adverse human health effects:</u> No other relevant adverse effects are known. <u>Other negative environmental effects:</u> Not applicable.
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**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 SUBSTANCES:  
Not applicable (mixture).

3.2 MIXTURES:  
This product is a mixture.  
Chemical description:  
Mixture of solvents.  
Ingredients:

<p>40 &lt; 50 % </p>	<p><b>Ethylmethylketone</b> CAS: 78-93-3 , EC: 201-159-0 DSD: F:R11   Xi R36   R66-R67 CLP: Flam. Liq. 2:H225   Eye Irrit. 2:H319   STOT SE (narcosis) 3:H336   EUH066</p>	<p>Index No. 606-002-00-3 &lt; ATP30 &lt; ATP01</p>
<p>25 &lt; 30 % </p>	<p><b>Xylene (mixture of isomers)</b> CAS: 1330-20-7 , EC: 215-535-7 DSD: R10   Xn:R20/21   Xi:R38 CLP: Flam. Liq. 3:H226   AcuteTox. (inh.) 4:H332   AcuteTox. (skin) 4:H312   Skin Irrit. 2:H315   Eye Irrit. 2:H319   STOT SE (irrit.) 3 H335   STOT RE 2:H373i   Asp. Tox. 1:H304</p>	<p>Index No. 601-022-00-9 &lt; ATP25 &lt; Autodæficada</p>
<p>1 &lt; 2,5 % </p>	<p><b>n-butyl acetate</b> CAS: 123-86-4 , EC: 204-658-1 DSD: R10   R66-R67 CLP: Flam. Liq. 3:H226   STOTSE (narcosis) 3:H336   EUH066</p>	<p>Index No. 607-025-00-1 &lt; ATP30 &lt; ATP01</p>

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

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 16/12/2013.  
Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:  
None  
Substances SVHC candidate to be included in Annex XM of Regulation (EC) no. 1907/2006:  
None



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**SECTION 4 : FIRST AID MEASURES**

**4.1 DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:**

4.2



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. It can be dangerous to the person applying 'kiss of life'.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
<u>Inhalation:</u> 	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.
<u>Skin:</u> 	Skin contact causes redness. In case of prolonged contact, the skin may become dry.	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.
<u>Eyes:</u> 	Contact with the eyes produces redness and pain.	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. Remove contact lenses. Call a physician immediately.
<u>Ingestion:</u> 	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.

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**

Notes to physician: The product inhaled during vomiting could cause lung damage. Thus, emesis should not be induced, neither mechanically nor pharmacologically. In the case of ingestion, empty the stomach with caution.  
Antidotes and contraindications: Specific antidote not know. In the case of a pneumonia by chemical agents, must be considered a therapy with antibiotics and corticosteroids.

**SECTION 5 : FIRE-FIGHTING MEASURES**

**5.1 EXTINGUISHING MEDIA:**

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

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**

Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

**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 not used, combat fire from a sheltered position or at 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.). 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 subsequent waste disposal, follow the recommendations in section 13.



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**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. Due to the possibility of the product becoming charged electrostatically, always use earthed leads when transferring from one container to another. Switch mobile phones off and do not smoke. The zones with risk 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. Floors should be electrically conductive and operators should wear anti-static footwear and clothing. Elaborate the document 'Protection against explosions'.

- Flash point : 16. °C
- Autoignition temperature : 485. # °C
- Upper/lower flammability or explosive limits : 1.6 - 10.2 % Volume 25°C
- Upper/lower flammability or explosive limits : 1.0 - 13.5 % Volume 300°C

Recommendations for the prevention of toxicological risks:

Do not eat, drink or smoke while handling. 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:

It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.

7.2

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**

Prevent unauthorized access. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. 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 store : According to current legislation.
- Temperature interval : min: 5.°C, max: 35.°C

Incompatible materials:

Keep away from.

Type of packaging:

According to current legislation.

Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:

Lower threshold: 50 tons, Upper threshold: 200 tons

7.3

**SPECIFIC END USES:**

For the use of this product do not exist particular recommendations apart from that already indicated.



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**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 standard concerning methods for assessing the exposure by inhalation to chemical agents and national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2011	Year	TLV-TWA		TLV-STEL		Observations
		ppm	mg/m3	ppm	mg/m3	
Ethylmethylketone	1976	200.	590.	300.	885.	A4
Xylene (mixture of isomers)	1996	100.	434.	150.	651.	
n-butyl acetate	1998	150.	713.	200.	950.	

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.  
A4 - Non classified as carcinogenic in humans.

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

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

Derived no-effect level, workers:

- Systemic effects, acute and chronic:  
Not available (withoud data of registration REACH).

<u>DNEL Inhalation</u> mg/m3	<u>DNEL Cutaneous</u> mg/kg bw/d	<u>DNEL Oral</u> mg/kg bw/d
-	-	-

Derived no-effect level, workers:

- Local effects, acute and chronic:  
Not available (withoud data of registration REACH).

<u>DNEL Inhalation</u> mg/m3	<u>DNEL Cutaneous</u> mg/cm2	<u>DNEL Eyes</u> mg/cm2
-	-	-

Derived no-effect level, general population:

Not applicable (product for industrial use).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms:

- Fresh water, marine water and intermittent release  
Not available (withoud data of registration REACH).

<u>PNEC Fresh water</u> mg/l	<u>PNEC Marine</u> mg/l	<u>PNEC Intermittent</u> mg/l
-	-	-

- Wastewater treatment plants (STP) and sediments in fresh- and marine water:  
Not available (withoud data of registration REACH).

<u>PNEC STP</u> mg/l	<u>PNEC Sediments</u> mg/kg dry weight	<u>PNEC Sediments</u> mg/kg dry weight
-	-	-

Predicted no-effect concentration, terrestrial organisms:

- Air, soil and effects for predators and humans:  
Not available (withoud data of registration REACH).

<u>PNECAir</u> mg/m3	<u>PNEC Soil</u> mg/kg dry weight	<u>PNEC Oral</u> mg/kg bw/d
-	-	-



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**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 vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system: Avoid the inhalation of solvents.

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.

OCUPATIONAL 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 manufacturer of PPE.

Mask:



A-type filter mask (brown) for gases and vapours of organic compounds with a boiling point higher than 65°C (EN14387). Classe 1: low capacity up to 1000 ppm, Classe 2: medium capacity up to 5000 ppm, Classe 3: high capacity up to 10000 ppm. In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour or oxygen content less than 18% in volume. In presence of high concentrations of vapour, use independent breathing apparatus.

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:



Solvent-resistant gloves (EN374). When it can be a repeated or prolonged contact, it is recommended to use gloves with a protection level 5 or higher, with a breakthrough time >240 min. When you only expect a short contact, it is recommended to use gloves with a protection level 2 or higher, with a breakthrough time >30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. 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:

Advisable.

Clothing:



Personnel should 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. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result, in special when it is used as a solvent. Avoid any solvent 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 must be verified if it is applicable the Directive 1999/13/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents in certain activities and installations: Solvents : 70.0% Weight, VOC (supply) : 70.0% Weight, VOC : 52.6% C (expressed as carbon) , Molecular weight (average) : 85.8 , Number C atoms (average) : 5.4.



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**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:**

<u>Appearance</u>			
- Physical state	:	Liquid.	
- Colour	:	White.	
- Odour	:	Characteristic	
- Odour threshold	:	Not available (mixture).	
<u>pH-value</u>			
- pH	:	Not available	
<u>Change of state</u>			
- Melting point	:	Not available	
- Boiling interval	:	79. - 137. °C at 760 mmHg	
<u>Density</u>			
- Vapour density	:	1.81 at 20°C 1 atm.	Relative air
- Relative density	:	0.874 at 20/4°C	Relative water
<u>Stability</u>			
- Decomposition temperature	:	Not applicable	
<u>Viscosity:</u>			
- Dynamic viscosity	:	0.60 cps 20°C	
- Kinematic viscosity	:	0.24 mm <sup>2</sup> /s at 40°C	
- Kinematic viscosity	:	0.69 cSt 20°C	
<u>Volatility:</u>			
- Vapour pressure	:	30.8 mmHg at 20°C	
- Vapour pressure	:	17.3 kPa at 50°C	
<u>Solubility(ies)</u>			
- Solubility in water:	:	Limited	
- Solubility in oils and fats:	:	Not available	
<u>Flammability:</u>			
- Flash point	:	16. °C	
- Upper/lower flammability or explosive limits	:	1.6 - 10.2 % Volume 25°C	
- Upper/lower flammability or explosive limits	:	1.0 - 13.5 % Volume 300°C	
- Autoignition temperature	:	485. # °C	
<u>Explosive properties:</u>			
Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source			
<u>Oxidizing properties:</u>			
Based on the chemical structure of the ingredients of the mixture, is unable to react with combustible materials.			

**9.2 OTHER INFORMATION:**

- Surface tension	:	35.1 din/cm at 20°C
- Heat of combustion	:	6195. Kcal/kg
- VOC (supply)	:	70.0 % Weight
- VOC (supply)	:	611.9 g/l

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

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1 REACTIVITY:**

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

**10.2 CHEMICAL STABILITY:**

Stable under recommended storage and handling conditions.

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS:**

Possible dangerous reaction with 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: Not applicable.  
Pressure: Not applicable.  
Shock: Not applicable.

**10.5 INCOMPATIBLE MATERIALS:**

Keep away fro.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS:**

As consequence of thermal decomposition, hazardous products may be produced.





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**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 (EC) No. 1272/2008~286/2011 (CLP).

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:**

ACUTE TOXICITY:

Dose and lethal concentrations for individual ingredients :

Ethylmethylketone  
Xylene (mixture of isomers)  
n-butyl acetate

DL50 (OECD 401)

mg/kg oral  
2737. Rat  
4300. Rat  
10768. Rat

DL50 (OECD 402)

mg/kg cutaneous  
6480. Rabbit  
1700. Rabbit  
17600. Rabbit

CL50 (OECD 403)

mg/m3.4h inhalation  
> 23500. Rat  
> 22080. Rat  
> 23400. 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
<u>Inhalation:</u> Not classified	ETA > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).
<u>Skin:</u> Not classified	ETA > 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).
<u>Eyes:</u> Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).
<u>Ingestion:</u> Not classified	ETA > 5000 mg/kg	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Respiratory corrosion/irritation:</u> 	Respiratory system 	Cat.3	IRRITANT: May cause respiratory irritation.
<u>Skin corrosion/irritation:</u> 	Skin 	Cat.2	IRRITANT: Causes skin irritation.
<u>Serious eye damage/irritation:</u> 	Eyes 	Cat.2	IRRITANT: Causes serious eye irritation.
<u>Respiratory sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).
<u>Skin sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Aspiration hazard:</u> 	Lungs 	Cat.1	HAZARD OF ASPIRATION: May be fatal if swallowed and enters airways.





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**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
<u>Sistémicos:</u> 	RE	Systemic	Cat.2	NOCIVO: Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.
<u>Cutaneous:</u>	RE	Skin 	-	DEFATTENING: Repeated exposure may cause skin dryness or cracking.
<u>Neurological:</u> 	SE	CNS 	Cat.3	NARCOTIC: May cause drowsiness or dizziness if inhaled.

**CMR EFFECTS:**

Carcinogenic effects: Is not considered as a carcinogenic product.

Genotoxicity: Is not considered as a mutagenic product.

Toxicity for reproduction: Do not harm fertility. Do not harm the fetus developing.

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: Harmful by inhalation. Harmful in contact with skin. 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. Irritating to skin. Very small amounts expired by the lungs may cause severe pulmonary damage, including death. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours.

Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

**INTERACTIVE EFFECTS:**

Not available.

**INFORMATION ABOUT TOXICOKINETICS, METABOLISM AND 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 (EC) No. 1272/2008~286/2011 (CLP).

12.1	<u>TOXICITY:</u>  <u>Acute toxicity in aquatic environment for individual ingredients :</u> Ethylmethylketone Xylene (mixture of isomers) n-butyl acetate  <u>No observed effect concentration</u> Not available <u>Lowest observed effect concentration</u> Not available	<u>CL50 (OECD 203)</u> mg/l.96hours 2993. Fishes 14. Fishes 18. Fishes	<u>CE50 (OECD 202)</u> mg/l.48hours 308. Daphnia 16. Daphnia 44. Daphnia	<u>CE50 (OECD 201)</u> mg/l.72hours 1972. Algae > 10. Algae 675. Algae
12.2	<u>PERSISTENCE AND DEGRADABILITY:</u> Not available.			
12.3	<u>BIOACCUMULATIVE POTENTIAL:</u> Not available.			
12.4	<u>MOBILITY IN SOIL:</u> Not available.			
12.5	<u>RESULTS OF PBT AND MPMB ASSESMENT:</u> Annex XIII of Regulation (EC) no. 1907/2006: Not applicable.			
12.6	<u>OTHER ADVERSE EFFECTS:</u> <u>Ozone depletion potential:</u> Not available. <u>Photochemical ozone creation potential:</u> Not available. <u>Earth global warming potential:</u> In case of fire or incineration liberates CO2. <u>Endocrine disrupting potential:</u> Not available.			

**SECTION 13 : DISPOSAL CONSIDERATIONS**

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC:  
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 of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.



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Disposal of empty containers: Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC:  
Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying 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, but in accordance with local regulations.

**SECTION 14 : TRANSPORT INFORMATION**

14.1 UN NUMBER: 0

14.2 UN PROPER SHIPPING NAME: Not applicable

14.3 TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:

14.4 Transport by road (ADR 2013) and  
Transport by rail (RID 2013):  
Not reglamented

Transport by sea (IMDG 35-10):  
Not reglamented

Transport by air (ICAO/IATA 2012):  
Not reglamented

Transport by inland waterways (ADN):  
Not available.

14.5 ENVIRONMENTAL HAZARDS:  
Not applicable (not classified as hazardous for the environment).

14.6 SPECIAL PRECAUTIONS FOR USER:  
Ensure adequate ventilation.

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

**SECTION 15 : REGULATORY INFORMATION**

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATION S/LEGISLATION SPECIFIC:  
The regulations applicable to this product generally are listed throughout this material safety data sheet.

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

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

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

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

OTHER REGULATIONS:  
Not available

15.2 CHEMICAL SAFETY ASSESSMENT:  
Not applicable (mixture).



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**SECTION 16 : OTHER INFORMATION**

16.1

**TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:**  
Hazard statements according the Regulation (EC) No. 1272/2008-790/2009 (CLP), Annex II:  
 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. EUH066 Repeated exposure may cause skin dryness or cracking. H373i May cause damage to organs through prolonged or repeated exposure if inhaled.  
R-phrases according the Directive 67/548/EEC~2001/59/EC (DSD), Annex II:  
 R10 Flammable. R11 Highly flammable. R36 Irritating to eyes. R38 Irritating to skin. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. R20/21 Harmful by inhalation and in contact with skin.

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 material 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/>
- European Chemicals Bureau: Existing Chemicals, <http://esis.jrc.ec.europa.eu/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH, 2011).

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- DSD: Dangerous Substances Directive.
- DPD: Dangerous Preparations Directive.
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- CLP: European regulation on Classification, Labelling and 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: Letaal dose, 50 percent.
- LC50: Letaal concentration, 50 percent.
- UN: United Nations Organisation.
- ADR: European agreement concerning the international carriage of dangerous goods by road.
- RID: Regulations concerning the international transport of dangerous goods by rail.
- IMDG: International Maritime code for Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization.

MATERIAL SAFETY DATA SHEET REGULATIONS:

Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.

HISTORY:                      Date of compilation:  
 Version: 1                      28/04/2014

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