

 MTN PRO PHOTOLUMIINISCENT Code: EX014PR0950	
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SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	<u>PRODUCT IDENTIFIER:</u>	MTN PRO PHOTOLUMIINISCENT Code: EX014PR0950
1.2	<u>RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:</u> <u>Intended uses (main technical functions):</u> Paint. <u>Sectors of use:</u> Consumer uses (SU21). <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'. <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not restricted.	<input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Professional <input checked="" type="checkbox"/> Consumers
1.3	<u>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</u> MONTANA COLORS, S.L. Pol. Ind. Plà de les Vives - c/AnaisNin 6 - E-08295 Sant Vicenç de Castellet (Barcelona) Phone: +34 93 8332760 - Fax: +34 93 8332761 <u>E-mail address of the person responsible for the safety data sheet:</u> e-mail: msds@montanacolors.com	
1.4	<u>EMERGENCY TELEPHONE NUMBER:</u> +34 93 8332787 (9:00-17:00 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. 1272/2008-605/2014 (CLP):</u> DANGER: Flam. Aerosol 1:H222+H229 Skin Irrit. 2:H315 Eye Irrit. 2:H319 STOT SE (narcosis) 3:H336 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> 	Flam. Aerosol 1:H222+H229 Skin Irrit. 2:H315 Eye Irrit. 2:H319 STOT SE (narcosis) 3:H336 EUH066	Cat.1 Cat.2 Cat.3 -	- Skin Eyes Inhalation Skin	- Skin Eyes CNS Skin	- Irritation Irritation Narcosis Dryness, Cracking
	<u>Human health:</u> 					
	<u>Environment:</u> Not classified					
Full text of hazard statements mentioned is indicated in section 16. Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.						

2.2	<u>LABEL ELEMENTS:</u> 	This product is labelled with the signal word DANGER in accordance with Regulation (EC) No. 1272/2008-605/2014 (CLP)
	<u>Hazard statements:</u> H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H319 Causes serious eye irritation. H315 Causes skin irritation. H336 May cause drowsiness or dizziness.	
	<u>Precautionary statements:</u> P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P264a Wash the hands thoroughly after handling. P271-P260d Use only outdoors or in a well-ventilated area. Do not breathe aerosol. P303+P361+P353-P352-P312 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. P304+P340-P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P305+P351+P338-P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. P337+P313 If eye irritation persists: Get medical attention. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501a Dispose of contents/container in accordance with local regulations.	
	<u>Supplementary statements:</u> None.	

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Hazardous ingredients:
n-butyl acetate
Ethyl acetate






2.3 OTHER HAZARDS:
Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:
[Other physicochemical hazards:](#) Vapours may form with air a mixture potentially flammable or explosive.
[Other adverse human health effects:](#) No other relevant adverse effects are known.
[Other negative environmental effects:](#) * Does not contain substances that fulfill the PBT/vPvB criteria.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:
Not applicable (mixture).

3.2 MIXTURES:
This product is a mixture.
[Chemical description:](#)
Aerosol.

[HAZARDOUS INGREDIENTS:](#)
Substances taking part in a percentage higher than the exemption limit:

50 < 60 % 	<p>Dimethyl ether CAS: 115-10-6 , EC: 204-065-8 CLP: Danger: Flam. Gas 1:H220 Press. Gas:H280</p>	<p>REACH: 01-2119472128-37</p>	<p>Index No. 603-019-00-8 < REACH</p>
10 < 15 % 	<p>Dialuminium strontium tetraoxide CAS: 12004-37-4 , EC: 234-455-3 CLP: Warning: Skin Irrit. 2:H315 Eye Irrit. 2:H319 STOTSE (irrit.) 3:H335</p>		<p>Autodassified</p>
10 < 15 % 	<p>n-butyl acetate CAS: 123-86-4 , EC: 204-658-1 CLP: Warning: Flam. Liq. 3:H226 STOTSE (na rcosis) 3:H336 EUH066</p>	<p>REACH: 01-2119485493-29</p>	<p>Index No. 607-025-00-1 < REACH / ATP01</p>
10 < 15 % 	<p>Ethyl acetate CAS: 141-78-6 , EC: 205-500-4 CLP: Danger: Flam. Liq. 2:H225 Eye Irrit. 2:H319 STOTSE (na rcosis) 3:H336 EUH066</p>	<p>REACH: 01-2119475103-46</p>	<p>Index No. 607-022-00-5 < REACH / ATP01</p>
2,5 < 5 % 	<p>Xylene (mixture of isomers) CAS: 1330-20-7 , EC: 215-535-7 CLP: Danger: Flam. Liq. 3:H226 Acute Tox. (inh.) 4:H332 Acute Tox. (skin) 4:H312 Skin Irrit. 2:H315 Eye Irrit. 2:H319 STOTSE (irrit.) 3:H335 STOTRE 2:H373i Asp. Tox. 1:H304</p>	<p>REACH: 01-2119488216-32</p>	<p>Index No. 601-022-00-9 < REACH</p>

[Impurities:](#)
Does not contain other components or impurities which will influence the classification of the product.

[Stabilizers:](#)
None

[Reference to other sections:](#)
For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

[SUBSTANCES OF VERY HIGH CONCERN \(SVHC\):](#)
List updated by ECHA on 20/06/2016.
[Substances SVHC subject to authorisation, included in Annex XIV of Regulation \(EC\) no. 1907/2006:](#)
None
[Substances SVHC candidate to be included in Annex XIV of Regulation \(EC\) no. 1907/2006:](#)
None

[PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPvB SUBSTANCES:](#)
Does not contain substances that fulfill the PBT/vPvB criteria.



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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.	
	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.	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. Do not use solvents or thinners.
	<u>Eyes:</u> 	Contact with the eyes produces redness and pain.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. 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 medical advice immediately and show container or label. Do not induce vomiting. Keep the patient at rest.
4.3	INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: <u>Notes to physician:</u> Treatment should be directed at the control of symptoms and the clinical condition of the patient. <u>Antidotes and contraindications:</u> Specific antidote not known.		

SECTION 5 : FIRE-FIGHTING MEASURES

5.1	EXTINGUISHING MEDIA: Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.
5.2	SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: Decomposes when heated intensely. Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Irritant. Exposure to combustion or decomposition products may be a hazard to health.
5.3	ADVICE FOR FIREFIGHTERS: <u>Special protective equipment:</u> 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. <u>Other recommendations:</u> 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.). Avoid use of solvents. Keep the remains in a closed container.
6.4	REFERENCE TO OTHER SECTIONS: For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.



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SECTION 7 : HANDLING AND STORAGE

7.1	<p>PRECAUTIONS FOR SAFE HANDLING: Comply with the existing legislation on health and safety at work.</p> <p><u>General recommendations:</u> Avoid any type of leakage or escape.</p> <p><u>Recommendations for the prevention of fire and explosion risks:</u> Pressurised container. Protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Do not smoke.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">- Flash point</td> <td style="width: 5%;">:</td> <td style="width: 15%;">-40. °C</td> </tr> <tr> <td>- Autoignition temperature</td> <td>:</td> <td>268. °C</td> </tr> <tr> <td>- Upper/lower flammability or explosive limits</td> <td>:</td> <td>3.0 - 23.4 % Volume 25°C</td> </tr> </table> <p><u>Recommendations for the prevention of toxicological risks:</u> Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. Avoid applying the product directly to people, animals, plants or foodstuffs. For exposure controls and personal protection measures, see section 8.</p> <p><u>Recommendations for the prevention of environmental contamination:</u> It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.</p>	- Flash point	:	-40. °C	- Autoignition temperature	:	268. °C	- Upper/lower flammability or explosive limits	:	3.0 - 23.4 % Volume 25°C
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- Autoignition temperature	:	268. °C								
- Upper/lower flammability or explosive limits	:	3.0 - 23.4 % Volume 25°C								
7.2	<p>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Forbid the entry to unauthorized persons. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. For more information, see section 10.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">Class of store</td> <td style="width: 5%;">:</td> <td style="width: 15%;">According to current legislation.</td> </tr> <tr> <td>Maximum storage period</td> <td>:</td> <td>24. months</td> </tr> <tr> <td>Temperature interval</td> <td>:</td> <td>min: 5. °C, max: 50. °C (recommended).</td> </tr> </table> <p><u>Incompatible materials:</u> Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.</p> <p><u>Type of packaging:</u> According to current legislation.</p> <p><u>Limit quantity (Seveso III): Directive 2012/18/EU:</u> Umbral inferior: 50 toneladas , Umbral superior: 200 toneladas</p>	Class of store	:	According to current legislation.	Maximum storage period	:	24. months	Temperature interval	:	min: 5. °C, max: 50. °C (recommended).
Class of store	:	According to current legislation.								
Maximum storage period	:	24. months								
Temperature interval	:	min: 5. °C, max: 50. °C (recommended).								
7.3	<p>SPECIFIC END USES: For the use of this product do not exist particular recommendations apart from that already indicated.</p>									



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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, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2014	Year	TLV-TWA		TLV-STEL		Remarks
		ppm	mg/m3	ppm	mg/m3	
Dimethyl ether		1000.	1920.	-	-	Recommended Inhalable powder
Dialuminium strontium tetraoxide	1996	-	10.	-	-	
n-butyl acetate	1998	150.	713.	200.	950.	
Ethyl acetate	1996	400.	1440.	-	-	
Xylene (mixture of isomers)	1996	100.	434.	150.	651.	

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

BIOLOGICAL LIMIT VALUES:

Not established

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.

<u>Derived no-effect level, workers:</u> - Systemic effects, acute and chronic:	<u>DNEL Inhalation</u>		<u>DNEL Cutaneous</u>		<u>DNEL Oral</u>	
	mg/m3		mg/kg bw/d		mg/kg bw/d	
Dimethyl ether	- (a)	1894. (c)	- (a)	- (c)	- (a)	- (c)
n-butyl acetate	960. (a)	480. (c)	11.0 (a)	11.0 (c)	- (a)	- (c)
Ethyl acetate	1468. (a)	734. (c)	s/r (a)	63.0 (c)	- (a)	- (c)
Xylene (mixture of isomers)	289. (a)	77.0 (c)	s/r (a)	180. (c)	- (a)	- (c)

<u>Derived no-effect level, workers:</u> - Local effects, acute and chronic:	<u>DNEL Inhalation</u>		<u>DNEL Cutaneous</u>		<u>DNEL Eyes</u>	
	mg/m3		mg/cm2		mg/cm2	
Dimethyl ether	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
n-butyl acetate	960. (a)	480. (c)	s/r (a)	s/r (c)	s/r (a)	- (c)
Ethyl acetate	1468. (a)	734. (c)	s/r (a)	s/r (c)	b/r (a)	- (c)
Xylene (mixture of isomers)	289. (a)	s/r (c)	s/r (a)	s/r (c)	- (a)	- (c)

<u>Derived no-effect level, general population:</u> - Systemic effects, acute and chronic:	<u>DNEL Inhalation</u>		<u>DNEL Cutaneous</u>		<u>DNEL Oral</u>	
	mg/m3		mg/kg bw/d		mg/kg bw/d	
Dimethyl ether	- (a)	471. (c)	- (a)	- (c)	- (a)	- (c)
n-butyl acetate	860. (a)	102. (c)	6.00 (a)	6.00 (c)	2.00 (a)	2.00 (c)
Ethyl acetate	734. (a)	367. (c)	s/r (a)	37.0 (c)	s/r (a)	4.50 (c)
Xylene (mixture of isomers)	174. (a)	14.8 (c)	s/r (a)	108. (c)	s/r (a)	1.60 (c)

<u>Derived no-effect level, general population:</u> - Local effects, acute and chronic:	<u>DNEL Inhalation</u>		<u>DNEL Cutaneous</u>		<u>DNEL Eyes</u>	
	mg/m3		mg/cm2		mg/cm2	
Dimethyl ether	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
n-butyl acetate	860. (a)	102. (c)	s/r (a)	s/r (c)	s/r (a)	- (c)
Ethyl acetate	734. (a)	367. (c)	s/r (a)	s/r (c)	- (a)	- (c)
Xylene (mixture of isomers)	174. (a)	s/r (c)	s/r (a)	s/r (c)	- (a)	- (c)

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



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PREDICTED NO-EFFECT CONCENTRATION (PNEC):

<u>Predicted no-effect concentration, aquatic organisms:</u> - Fresh water, marine water and intermitent release:	<u>PNEC Fresh water</u> mg/l	<u>PNEC Marine</u> mg/l	<u>PNEC Intermittent</u> mg/l
Dimethyl ether	0.155	0.0160	1.55
n-butyl acetate	0.180	0.0180	0.360
Ethyl acetate	0.260	0.0260	1.65
Xylene (mixture of isomers)	0.327	0.327	0.327
<u>- Wastewater treatment plants (STP) and sediments in fresh- and marine water:</u>	<u>PNEC STP</u> mg/l	<u>PNEC Sediments</u> mg/kg dry weight	<u>PNEC Sediments</u> mg/kg dry weight
Dimethyl ether	160.	0.681	0.0690
n-butyl acetate	35.6	0.981	0.0981
Ethyl acetate	650.	1.25	0.125
Xylene (mixture of isomers)	6.58	12.5	12.5
<u>Predicted no-effect concentration, terrestrial organisms:</u> - Air, soil and effects for predators and humans:	<u>PNEC Air</u> mg/m3	<u>PNEC Soil</u> mg/kg dry weight	<u>PNEC Oral</u> mg/kg bw/d
Dimethyl ether	-	0.0450	-
n-butyl acetate	s/r	0.0903	n/b
Ethyl acetate	-	0.240	200.
Xylene (mixture of isomers)	-	2.31	-

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

8.2

EXPOSURE CONTROLS:

ENGINEERING MEASURES:



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




Protection of respiratory system: Avoid the inhalation of vapours.

Protection of eyes and face: It is recommended to dispose of water taps or sources with clean water close to the working area.

Protection of hands and skin: It is recommended to dispose of water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

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 manufacturers of PPE.

<u>Mask:</u> 	Suitable combined filter mask for gases, vapours and particles (EN14387/EN143). 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.
<u>Goggles:</u> 	Safety goggles with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.
<u>Face shield:</u>	No.
<u>Gloves:</u> 	Gloves resistant against chemicals (EN374). 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.
<u>Boots:</u>	No.
<u>Apron:</u>	No.
<u>Clothing:</u>	Advisable.

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

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

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.
- Water Control Act: Este producto no contiene ninguna sustancia incluida en la lista de sustancias prioritarias en el ámbito de la política de aguas, según la Directiva 2000/60/CE-2013/39/UE.



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Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result. When possible, avoid solvent release to the atmosphere; do not pulverize more than is strictly necessary.
- VOC (industrial installations): Si el producto se utiliza en una instalación industrial, se debe verificar si es de aplicación la Directiva 2010/75/UE (RD.117/2003-RD.815/2013), relativa a la limitación de emisiones de compuestos orgánicos volátiles debidas al uso de disolventes orgánicos en determinadas actividades industriales: Disolventes : 83.1% Peso , COV (suministro) : 83.1% Peso , COV : 46.4% C (expresado como carbono) , Peso molecular (medio) : 63.2 , Número átomos C (medio) : 2.9.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:
Appearance
 - Physical state : Aerosol.
 - Odour : Characteristic
 - Odour threshold : Not available (mixture).
pH-value
 - pH : Not applicable
Change of state
 - Melting point : Not applicable (mixture).
 - Initial boiling point : Not applicable
Density
 - Relative density : 0.805 at 20/4°C Relative water
Stability
 - Decomposition temperature : Not available
Viscosity:
 - Viscosity (flow time) : Not applicable
Volatility:
 - Vapour pressure : Not available
Solubility(ies)
 - Solubility in water: : Not miscible
 - Solubility in oils and fats: : Not applicable
Flammability:
 - Flash point : -40. °C
 - Upper/lower flammability or explosive limits : 3.0 - 23.4 % Volume 25°C
 - Autoignition temperature : 268. °C
Explosive properties:
 Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source.
Oxidizing properties:
 Not classified as oxidizing product.

9.2 OTHER INFORMATION:
 - Heat of combustion : 6768. Kcal/kg
 - Solids : 16.9 % Weight
 - VOC (supply) : 83.1 % Weight
 - VOC (supply) : 668.9 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 water, oxidizing agents, acids, alkalis, amines, peroxides.

10.4 CONDITIONS TO AVOID:
Heat: Keep away from sources of heat.
Light: Avoid direct contact with sunlight.
Air: Not applicable.
Humidity: Avoid extreme humidity conditions.
Pressure: Not applicable.
Shock: Not applicable.

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

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



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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. 1272/2008-605/2014 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

<u>Dose and lethal concentrations for individual ingredients:</u>	<u>DL50 (OECD 401)</u> mg/kg oral	<u>DL50 (OECD 402)</u> mg/kg cutaneous	<u>CL50 (OECD 403)</u> mg/m ³ .4h inhalation
Dimethyl ether	> 5000. Rat		> 100000 Rat
Dialuminium strontium tetraoxide	10768. Rat	17600. Rabbit	> 23400. Rat
n-butyl acetate	5620. Rat	18000. Rabbit	> 44000. Rat
Ethyl acetate	4300. Rat	1700. Rabbit	> 22080. Rat
Xylene (mixture of isomers)			

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

<u>Routes of exposure</u>	<u>Acute toxicity</u>	<u>Cat.</u>	<u>Main effects, acute and/or delayed</u>
<u>Inhalation:</u> Not classified	ATE > 20000 mg/m ³	-	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	ATE > 2000 mg/kg	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).
<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	ATE > 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 :

<u>Danger class</u>	<u>Target organs</u>	<u>Cat.</u>	<u>Main effects, acute and/or delayed</u>
<u>Respiratory corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).
<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:

<u>Danger class</u>	<u>Target organs</u>	<u>Cat.</u>	<u>Main effects, acute and/or delayed</u>
<u>Aspiration hazard:</u> Not classified	-	-	Not applicable.



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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>Cutaneous:</u>	RE	Skin 	-	DEFATTENING: Repeated exposure may cause skin dryness or cracking.
<u>Neurological:</u> 	SE	CNS 	Cat.3	NARCOSIS: 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: Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours.
Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Repeated exposure may cause skin dryness or cracking.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOCINETICS, 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. 1272/2008-605/2014 (CLP).

12.1	<u>TOXICITY:</u>			
	<u>Acute toxicity in aquatic environment for individual ingredients :</u> Dimethyl ether n-butyl acetate Ethyl acetate Xylene (mixture of isomers)	<u>CL50 (OECD 203)</u> mg/l.96hours 4100. Fishes 18. Fishes 212. Fishes 14. Fishes	<u>CE50 (OECD 202)</u> mg/l.48hours 4400. Daphnia 44. Daphnia 164. Daphnia 16. Daphnia	<u>CE50 (OECD 201)</u> mg/l.72hours 675. Algae > 100. Algae > 10. Algae
	<u>No observed effect concentration</u> n-butyl acetate	<u>NOEC (OECD 210)</u> mg/l.28days	<u>NOEC (OECD 211)</u> mg/l.21days 23. Daphnia	
	<u>Lowest observed effect concentration</u> Not available			
12.2	<u>PERSISTENCE AND DEGRADABILITY:</u> Not available.			
	<u>Aerobic biodegradation for individual ingredients :</u> Dimethyl ether n-butyl acetate Ethyl acetate Xylene (mixture of isomers)	<u>DQO</u> mgO2/g 1041. 2204. 1540. 2620.	<u>%DBO/DQO</u> 5 days 14 days 28 days ~ 1. ~ 3. ~ 5. ~ 80. ~ 82. ~ 83. ~ 62. ~ 69. ~ 94. ~ 52. ~ 81. ~ 88.	<u>Biodegradability</u> Not easy Easy Easy Easy
12.3	<u>BIOACCUMULATIVE POTENTIAL:</u> Not available.			
	<u>Bioaccumulation for individual ingredients :</u> Dimethyl ether n-butyl acetate Ethyl acetate Xylene (mixture of isomers)	<u>logPow</u> 0.0700 1.81 0.730 3.16	<u>BCF</u> L/kg 1.7 (calculated) 6.9 (calculated) 3.2 (calculated) 57. (calculated)	<u>Potential</u> Unlikely, low No bioaccumulable No bioaccumulable Low
12.4	<u>MOBILITY IN SOIL:</u> Not available.			
12.5	<u>RESULTS OF PBT AND VPVBASESMENT:</u> Annex XIII of Regulation (EC) no. 1907/2006: Does not contain substances that fulfill the PBT/VPvB criteria.			



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

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 **WASTE TREATMENT METHODS: Directive 2008/98/EC-Regulation (EU) no. 1357/2014:**
 Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose 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.

Disposal of empty containers: Directive 94/62/EC-2005/20/EC, Decision 2000/532/EC-2014/955/EU:
 Emptied containers and packaging should be disposed 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. Ensure the container is completely empty before throwing it away.

Procedures for neutralising or destroying the product:
 In accordance with local regulations. Do not incinerate closed containers.



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SECTION 14 : TRANSPORT INFORMATION

14.1	<u>UN NUMBER:</u> 1950
14.2	<u>UN PROPER SHIPPING NAME:</u> AEROSOLS
14.3 14.4	<p><u>TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:</u></p> <p><u>Transport by road (ADR 2015) and Transport by rail (RID 2015):</u></p> <ul style="list-style-type: none"> - Class: 2 - Packaging group: - - Classification code: 5F - Tunnel restriction code: (D) - Transport category: 2 , max. ADR 1.1.3.6. 333 L - Limited quantities: LQ2 (see total exemptions ADR 3.4) - Transport document: Consignment paper. - Instructions in writing: ADR 5.4.3.4 <p><u>Transport by sea (IMDG 37-14):</u></p> <ul style="list-style-type: none"> - Class: 2 - Packaging group: - - Emergency Sheet (EmS): F-D,S-U - First Aid Guide (MFAG): 620* - Marine pollutant: No. - Transport document: Shipping Bill of lading. <p><u>Transport by air (ICAO/IATA 2015):</u></p> <ul style="list-style-type: none"> - Class: 2 - Packaging group: - - Transport document: Air Bill of lading. <p><u>Transport by inland waterways (ADN):</u> Not available.</p>
14.5	<u>ENVIRONMENTAL HAZARDS:</u> Not applicable (not classified as hazardous for the environment).
14.6	<u>SPECIAL PRECAUTIONS FOR USER:</u> Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are in a vertical position and sure. Ensure adequate ventilation.
14.7	<u>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:</u> Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1	<p><u>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u> The regulations applicable to this product generally are listed throughout this material safety data sheet.</p> <p><u>Restrictions on manufacture, placing on market and use:</u> See section 1.2</p> <p><u>Control of the risks inherent in major accidents (Seveso III):</u> See section 7.2</p> <p><u>Tactile warning of danger:</u> Not applicable (the classification criteria are not met).</p> <p><u>Child safety protection:</u> Not applicable (the classification criteria are not met).</p> <p><u>Legislación específica sobre aerosoles:</u> It is applicable the Directive 75/324/EEC~2013/10/EU, relating to aerosol dispensers and the Directive 87/404/EEC, concerning simple pressure packages.</p> <p><u>OTHER REGULATIONS:</u> Not available</p>
15.2	<u>CHEMICAL SAFETY ASSESSMENT:</u> For this mixture has not been carried out a chemical safety assessment.



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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. 1272/2008-605/2014 (CLP), Annex III:
 H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H280 Contains gas under pressure: may explode if heated. 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.

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/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH, 2014).
- European agreement on the international carriage of dangerous goods by road, (ADR 2015).
- International Maritime Dangerous Goods Code IMDG including Amendment 37-14 (IMO, 2014).

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 of Regulation (EU) No. 2015/830.

HISTORY:

Version: 1

Date of compilation:

26/10/2016

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.