

	MTN ALIEN Code: AE0180001	
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**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1	<b>PRODUCT IDENTIFIER:</b>	MTN ALIEN Code: AE0180001
1.2	<b>RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:</b> <u>Intended uses (main technical functions):</u> Decorative paint.	[ ] Industrial [X] Professional [X] Consumers
	<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 Annex XVII of Regulation (EC) No. 1907/2006:</u> Not restricted.	
1.3	<b>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</b> MONTANA COLORS, S.L. Pol. Ind. Pla 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: mds@montanacolors.com	
1.4	<b>EMERGENCY TELEPHONE NUMBER:</b> +34 93 8332787 (9:00-17:00 h.) (working hours)	

**SECTION 2 : HAZARDS IDENTIFICATION**

2.1	<b>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:</b> <u>Classification in accordance with Regulation (EC) No. 1272/2008-487/2013 (CLP):</u> DANGER: Flam. Aerosol 1:H222+H229   Skin Irrit. 2:H315   Eye Irrit. 2:H319   STOT RE 2:H373   Aquatic Chronic 3:H412   EUH066					
	Danger class	Classification of the mixture	Cat.	Routes of exposure	Target organs	Effects
	<u>Physicochemical:</u> 	Flam. Aerosol 1:H222+H229 Skin Irrit. 2:H315 Eye Irrit. 2:H319 STOT RE 2:H373	Cat.1 Cat.2 Cat.2 Cat.2 Cat.3	- Skin Eyes - - Skin	- Skin Eyes Systemic - Skin	- Irritation Irritation Damage - Dryness, Cracking
	<u>Human health:</u> 	Aquatic Chronic 3:H412 EUH066	-	-	-	-
	<u>Environment:</u>					
	<u>Classification in accordance with Directive 1999/45/EC-2006/8/EC (DPD):</u> F+:R12   Xn:R20/21   Xi:R38  Full text of hazard statements and risk phrases mentioned is indicated in section 16.					

2.2	<b>LABEL ELEMENTS:</b> 		This product is labelled with the signal word DANGER in accordance with Regulation (EC) No. 1272/2008-487/2013 (CLP)
	<u>Hazard statements:</u> H222 H229 H373 H319 H315 H412	Extremely flammable aerosol. Pressurised container: may burst if heated. May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. Causes skin irritation. Harmful to aquatic life with long lasting effects.	
	<u>Precautionary statements:</u> P102 P210 P211 P251 P271-P260d P303+P361+P353-P352 P304+P340-P312 P305+P351+P338 P410+P412 P273-P501a	Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Do not breathe aerosol. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. 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. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Avoid release to the environment. Dispose of contents/container in a safe way.	
	<u>Supplementary statements:</u> EUH208 <u>Hazardous ingredients:</u> Xylene (mixture of isomers)	Contains 2-butanone-oxime. May produce an allergic reaction.	

2.3	<b>OTHER HAZARDS:</b> 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> Prolonged exposure to vapours may produce transient drowsiness. <u>Other negative environmental effects:</u> Does not contain substances that fulfil the PBT/vPvB criteria.	
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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:**  
Aerosol.

**HAZARDOUS INGREDIENTS:**

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

<p>30 &lt; 40 % </p>	<p><b>Petroleum gases, liquefied, sweetened</b> CAS: 68476-86-8 , EC: 270-705-8 DSD: F+:R12 CLP: Danger: Flam. Gas 1:H220   Press. Gas.:H280</p>	<p>Index No. 649-203-00-1 (Note H,K,S) &lt; ATP30 &lt; ATP01</p>
<p>15 &lt; 20 %  </p>	<p><b>Xylene (mixture of isomers)</b> CAS: 1330-20-7 , EC: 215-535-7 DSD: R10   Xn:R20/21   Xi:R38 CLP: Danger: Flam. Liq. 3:H226   Acute Tox. (inh.) 4:H332   Acute Tox. (skin) 4:H312   Skin Irrit. 2:H315   Eye Irrit. 2:H319   STOT SE (irrit.) 3:H335   STOT RE 2:H373i   Asp. Tox. 1:H304</p>	<p>REACH: 01-2119488216-32 Index No. 601-022-00-9 &lt; ATP25 &lt; REACH</p>
<p>5 &lt; 10 %  </p>	<p><b>Acetone</b> CAS: 67-64-1 , EC: 200-662-2 DSD: F:R11   Xi:R36   R66-R67 CLP: Danger: Flam. Liq. 2:H225   Eye Irrit. 2:H319   STOT SE (narcois) 3:H336   EUH066</p>	<p>REACH: 01-2119471330-49 Index No. 606-001-00-8 &lt; ATP30 &lt; REACH / ATP01</p>
<p>2,5 &lt; 5 % </p>	<p><b>2-methoxy-1-methylethyl acetate</b> CAS: 108-65-6 , EC: 203-603-9 DSD: R10 CLP: Warning: Flam. Liq. 3:H226</p>	<p>REACH: 01-2119475791-29 Index No. 607-195-00-7 &lt; ATP31 &lt; REACH / ATP01</p>
<p>2,5 &lt; 5 %  </p>	<p><b>Ethylbenzene</b> CAS: 100-41-4 , EC: 202-849-4 DSD: F:R11   Xn:R20 CLP: Danger: Flam. Liq. 2:H225   Acute Tox. (inh.) 4:H332</p>	<p>REACH: 01-2119489370-35 Index No. 601-023-00-4 &lt; ATP12 &lt; REACH / CLP00</p>
<p>1 &lt; 2 %  </p>	<p><b>Naphtha (petroleum), hydrodesulfurized heavy</b> CAS: 64742-82-1 , EC: 265-185-4 DSD: R10   Xn:R65   Xi:R38   R67   N:R51-53 CLP: Danger: Flam. Liq. 3:H226   Skin Irrit. 2:H315   STOT SE (narcois) 3:H336   Asp. Tox. 1:H304   Aquatic Chronic 2:H411</p>	<p>Index No. 649-330-00-2 (Note H,P) &lt; ATP30 &lt; ATP01</p>
<p>&lt; 0,20 %  </p>	<p><b>2-butanone-oxime</b> CAS: 96-29-7 , EC: 202-496-6 DSD: Carc.Cat.3:R40   Xn:R21   Xi:R41   R43 CLP: Danger: Acute Tox. (skin) 4:H312   Eye Dam. 1:H318   Skin Sens. 1:H317   Carc. 2:H35 1</p>	<p>Index No. 616-014-00-0 &lt; ATP28 &lt; CLP00</p>

**Impurities:**

Content of benzene < 0.1%. Content of 1,3-butadiene < 0.1%.

**Reference to other sections:**

For more information, see sections 8, 11, 12 and 16.

**SUBSTANCES OF VERY HIGH CONCERN (SVHC):**

List updated by ECHA on 17/12/2014.

**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



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**SECTION 4 : FIRST AID MEASURES**

4.1	<b>DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:</b>	
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.	
	<b>Route of exposure</b>	<b>Symptoms and effects, acute and delayed</b>
	<u>Inhalation:</u>	Inhalation of solvent vapours may produce headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness.
	<u>Skin:</u> 	Skin contact causes redness. In case of prolonged contact, the skin may become dry.
	<u>Eyes:</u> 	Contact with the eyes produces redness and pain.
	<u>Ingestion:</u>	If swallowed, may cause irritation of the throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea.
4.3	<b>INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:</b> <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	<b>EXTINGUISHING MEDIA:</b> 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	<b>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:</b> 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. Harmful. Irritant. Exposure to combustion or decomposition products may be a hazard to health.
5.3	<b>ADVICE FOR FIREFIGHTERS:</b> <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	<b>PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:</b> 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	<b>ENVIRONMENTAL PRECAUTIONS:</b> 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	<b>METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:</b> 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	<b>REFERENCE TO OTHER SECTIONS:</b> 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><b>PRECAUTIONS FOR SAFE HANDLING:</b> Comply with the existing legislation on health and safety at work. <u>General recommendations:</u> Avoid any type of leakage or escape. <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: 50%;">- Flash point</td> <td style="width: 10%; text-align: center;">:</td> <td style="width: 40%;">-58. °C</td> </tr> <tr> <td>- Autoignition temperature</td> <td style="text-align: center;">:</td> <td>354. °C</td> </tr> <tr> <td>- Upper/lower flammability or explosive limits</td> <td style="text-align: center;">:</td> <td>1.7 - 9.6 % 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. <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	:	-58. °C	- Autoignition temperature	:	354. °C	- Upper/lower flammability or explosive limits	:	1.7 - 9.6 % Volume 25°C
- Flash point	:	-58. °C								
- Autoignition temperature	:	354. °C								
- Upper/lower flammability or explosive limits	:	1.7 - 9.6 % Volume 25°C								
7.2	<p><b>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:</b> Prevent unauthorized access. 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: 50%;"><u>Class of store</u></td> <td style="width: 10%; text-align: center;">:</td> <td style="width: 40%;">According to current legislation.</td> </tr> <tr> <td><u>Maximum storage period</u></td> <td style="text-align: center;">:</td> <td>24. months</td> </tr> <tr> <td><u>Temperature interval</u></td> <td style="text-align: center;">:</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. <u>Type of packaging:</u> According to current legislation. <u>Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:</u> Lower threshold: 50 tons , Upper threshold: 200 tons</p>	<u>Class of store</u>	:	According to current legislation.	<u>Maximum storage period</u>	:	24. months	<u>Temperature interval</u>	:	min: 5.°C, max: 50.°C (recommended).
<u>Class of store</u>	:	According to current legislation.								
<u>Maximum storage period</u>	:	24. months								
<u>Temperature interval</u>	:	min: 5.°C, max: 50.°C (recommended).								
7.3	<p><b>SPECIFIC END USES:</b> 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 2011	Year	TLV-TWA		TLV-STEL		Remarks
		ppm	mg/m3	ppm	mg/m3	
Petroleum gases, liquefied, sweetened	2004	1000.	-	-	-	A4
Xylene (mixture of isomers)	1996	100.	434.	150.	651.	A4
Acetone	1997	500.	1188.	750.	1782.	Vd
2-methoxy-1-methylethyl acetate		50.	275.	100.	550.	Recommended
Ethylbenzene	2002	100.	434.	125.	543.	A3
Naphtha (petroleum), hydrodesulfurized heavy		100.	525.	-	-	Internal value

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.  
Vd - Dermal.  
A3 - Carcinogenic in animals.  
A4 - Non classified as carcinogenic in humans.

Dermal (Vd): Means that, in exposures to this substance, the contribution by the cutaneous route, including the mucous membranes and eyes, may result significant for the overall body content if no measures are taken to prevent absorption. There are some chemicals for which dermal absorption, both in liquid and vapour phases, can be very high, and this route of entry may be or equal or greater importance even than inhalation pathway. In these situations, the use of a biological control is essential in order to quantify the overall amount of contaminant absorbed.

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> mg/m3		<u>DNEL Cutaneous</u> mg/kg bw/d		<u>DNEL Oral</u> mg/kg bw/d	
	Xylene (mixture of isomers)	289. (a)	77.0 (c)	s/r (a)	180. (c)	- (a)
Acetone	- (a)	1210. (c)	- (a)	186. (c)	- (a)	- (c)
2-methoxy-1-methylethyl acetate	- (a)	275. (c)	- (a)	154. (c)	- (a)	- (c)
Ethylbenzene	s/r (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> mg/m3		<u>DNEL Cutaneous</u> mg/cm2		<u>DNEL Eyes</u> mg/cm2	
	Xylene (mixture of isomers)	289. (a)	s/r (c)	s/r (a)	s/r (c)	- (a)
Acetone	2420. (a)	- (c)	- (a)	- (c)	- (a)	- (c)
2-methoxy-1-methylethyl acetate	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Ethylbenzene	293. (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> mg/m3		<u>DNEL Cutaneous</u> mg/kg bw/d		<u>DNEL Oral</u> mg/kg bw/d	
	Xylene (mixture of isomers)	174. (a)	14.8 (c)	s/r (a)	108. (c)	s/r (a)
Acetone	- (a)	200. (c)	- (a)	62.0 (c)	- (a)	62.0 (c)
2-methoxy-1-methylethyl acetate	- (a)	33.0 (c)	- (a)	54.8 (c)	- (a)	1.67 (c)
Ethylbenzene	s/r (a)	15.0 (c)	s/r (a)	s/r (c)	s/r (a)	1.60 (c)
<u>Derived no-effect level, general population:</u> - Local effects, acute and chronic:	<u>DNEL Inhalation</u> mg/m3		<u>DNEL Cutaneous</u> mg/cm2		<u>DNEL Eyes</u> mg/cm2	
	Xylene (mixture of isomers)	174. (a)	s/r (c)	s/r (a)	s/r (c)	- (a)
Acetone	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
2-methoxy-1-methylethyl acetate	- (a)	- (c)	- (a)	- (c)	- (a)	- (c)
Ethylbenzene	s/r (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).



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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
Xylene (mixture of isomers)	0.327	0.327	0.327
Acetone	10.6	1.06	21.0
2-methoxy-1-methylethyl acetate	0.635	0.0635	6.35
Ethylbenzene	0.100	0.0100	0.100
<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
Xylene (mixture of isomers)	6.58	12.5	12.5
Acetone	100.	30.4	3.04
2-methoxy-1-methylethyl acetate	100.	3.29	0.329
Ethylbenzene	9.60	13.7	1.37
<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
Xylene (mixture of isomers)	-	2.31	-
Acetone	-	29.5	n/b
2-methoxy-1-methylethyl acetate	-	0.290	-
Ethylbenzene	-	2.68	20.0

(-) - PNEC not available (without data of registration REACH).  
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.

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.



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**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

9.1	<p><b>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</b></p> <p><u>Appearance</u></p> <ul style="list-style-type: none"> <li>- Physical state : Aerosol.</li> <li>- Odour : Characteristic</li> <li>- Odour threshold : Not available (mixture).</li> </ul> <p><u>pH-value</u></p> <ul style="list-style-type: none"> <li>- pH : Not applicable</li> </ul> <p><u>Change of state</u></p> <ul style="list-style-type: none"> <li>- Melting point : Not applicable (mixture).</li> <li>- Initial boiling point : Not applicable</li> </ul> <p><u>Density</u></p> <ul style="list-style-type: none"> <li>- Relative density : 0.869 at 20/4°C <span style="float: right;">Relative water</span></li> </ul> <p><u>Stability</u></p> <ul style="list-style-type: none"> <li>- Decomposition temperature : 287. °C</li> </ul> <p><u>Viscosity:</u></p> <ul style="list-style-type: none"> <li>- Viscosity (flow time) : Not applicable</li> </ul> <p><u>Volatility:</u></p> <ul style="list-style-type: none"> <li>- Vapour pressure : Not available</li> </ul> <p><u>Solubility(ies)</u></p> <ul style="list-style-type: none"> <li>- Solubility in water: : Not miscible</li> <li>- Solubility in oils and fats: : Not applicable</li> </ul> <p><u>Flammability:</u></p> <ul style="list-style-type: none"> <li>- Flash point : -58. °C</li> <li>- Upper/lower flammability or explosive limits : 1.7 - 9.6 % Volume 25°C</li> <li>- Autoignition temperature : 354. °C</li> </ul> <p><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.</p> <p><u>Oxidizing properties:</u> Based on the chemical structure of the ingredients of the mixture, is unable to react with combustible materials.</p>
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9.2	<p><b>OTHER INFORMATION:</b></p> <ul style="list-style-type: none"> <li>- Solids : 33. % Weight</li> <li>- VOC (supply) : 67.0 % Weight</li> <li>- VOC (supply) : 582.5 g/l</li> </ul> <p>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.</p>
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**SECTION 10 : STABILITY AND REACTIVITY**

10.1	<p><b>REACTIVITY:</b></p> <p><u>Corrosivity to metals:</u> It is not corrosive to metals.</p> <p><u>Pyrophorical properties:</u> It is not pyrophoric.</p>
10.2	<p><b>CHEMICAL STABILITY:</b></p> <p>Stable under recommended storage and handling conditions.</p>
10.3	<p><b>POSSIBILITY OF HAZARDOUS REACTIONS:</b></p> <p>Possible dangerous reaction with oxidizing agents, acids, peroxides.</p>
10.4	<p><b>CONDITIONS TO AVOID:</b></p> <p><u>Heat:</u> Keep away from sources of heat.</p> <p><u>Light:</u> Avoid direct contact with sunlight.</p> <p><u>Air:</u> Not applicable.</p> <p><u>Humidity:</u> Avoid extreme humidity conditions.</p> <p><u>Pressure:</u> Not applicable.</p> <p><u>Shock:</u> Not applicable.</p>
10.5	<p><b>INCOMPATIBLE MATERIALS:</b></p> <p>Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.</p>
10.6	<p><b>HAZARDOUS DECOMPOSITION PRODUCTS:</b></p> <p>As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.</p>





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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 :	DL50 (OECD 401) mg/kg oral	DL50 (OECD 402) mg/kg cutaneous	CL50 (OECD 403) mg/m3.4h inhalation
Petroleum gases, liquefied, sweetened			> 31000. Rat
Xylene (mixture of isomers)	4300. Rat	1700. Rabbit	> 22080. Rat
Acetone	5800. Rat	> 20000. Rabbit	> 100000. Rat
2-methoxy-1-methylethyl acetate	8532. Rat	> 5000. Rat	> 35700. Rat
Ethylbenzene	3500. Rat	15400. Rabbit	> 17400. Rat
Naphtha (petroleum), hydrodesulfurized heavy	6000. Rat	3000. Rat	> 7630. Rat
2-butanone-oxime	2400. Rat	1840. Rabbit	> 4830. 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> 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).

- Contains 2-butanone-oxime. May produce an allergic reaction.

ASPIRATION HAZARD:

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

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.





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**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. 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 TOXICOCINETICS, METABOLISM AND DISTRIBUTION:**

**Dermal absorption:**  
 This preparation contains the following substances for which dermal absorption can be very high: 2-methoxy-1-methylethyl acetate.  
**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	<b>TOXICITY:</b>			
	<b>Acute toxicity in aquatic environment for individual ingredients:</b>	<b>CL50 (OECD 203)</b> mg/l.96hours	<b>CE50 (OECD 202)</b> mg/l.48hours	<b>CE50 (OECD 201)</b> mg/l.72hours
	Petroleum gases, liquefied, sweetened	11. Fishes	14. Daphnia	4.7 Algae
	Xylene (mixture of isomers)	14. Fishes	16. Daphnia	> 10. Algae
	Acetone	5540. Fishes	12100. Daphnia	
	2-methoxy-1-methylethyl acetate	134. Fishes	408. Daphnia	> 1000. Algae
	Ethylbenzene	12. Fishes	1.8 Daphnia	33. Algae
	Naphtha (petroleum), hydrodesulfurized heavy	2.6 Fishes	2.3 Daphnia	> 10. Algae
	2-butanone-oxime	843. Fishes	750. Daphnia	83. Algae
	<b>No observed effect concentration</b>	<b>NOEC (OECD 210)</b> mg/l.28days	<b>NOEC (OECD 211)</b> mg/l.21days	
	2-methoxy-1-methylethyl acetate		> 100. Daphnia	
	<b>Lowest observed effect concentration</b> Not available			

12.2 **PERSISTENCE AND DEGRADABILITY:**

Not available.

12.3 **BIOACCUMULATIVE POTENTIAL:**

Not available.

12.4 **MOBILITY IN SOIL:**

Not available.

12.5 **RESULTS OF PBT AND VPV BASSEMENT:** Annex XIII of Regulation (EC) no. 1907/2006:

Does not contain substances that fulfill the PBT/vPvB criteria.

12.6 **OTHER ADVERSE EFFECTS:**

**Ozone depletion potential:** Not available.  
**Photochemical ozone creation potential:** Not available.  
**Earth global warming potential:** In case of fire or incineration liberates CO2.  
**Endocrine disrupting potential:** Not available.

MTN ALIEN  
Code: AE0180001**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.

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. 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 2013) and Transport by rail (RID 2013):</u></p> <ul style="list-style-type: none"> <li>- Class: 2</li> <li>- Packaging group: -</li> <li>- Classification code: 5F</li> <li>- Tunnel restriction code: (D)</li> <li>- Transport category: 2 , max. ADR 1.1.3.6. 333 L</li> <li>- Limited quantities: LQ2 (see total exemptions ADR 3.4)</li> <li>- Transport document: Consignment paper.</li> <li>- Instructions in writing: ADR 5.4.3.4</li> </ul> <p><u>Transport by sea (IMDG 35-10):</u></p> <ul style="list-style-type: none"> <li>- Class: 2</li> <li>- Packaging group: -</li> <li>- Emergency Sheet (EmS): F-D,S-U</li> <li>- First Aid Guide (MFAG): 620*</li> <li>- Marine pollutant: No.</li> <li>- Transport document: Shipping Bill of lading.</li> </ul> <p><u>Transport by air (ICAO/IATA 2012):</u></p> <ul style="list-style-type: none"> <li>- Class: 2</li> <li>- Packaging group: -</li> <li>- Transport document: Air Bill of lading.</li> </ul> <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 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> If the product is intended for the general public, is mandatory a tactile warning of danger. The technical specifications for tactile warning devices shall conform with EN ISO standard 11683 relating to 'Packaging - Tactile warnings of danger - Requirements.'</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> Not applicable (mixture).



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## SECTION 16 : OTHER INFORMATION

16.1	<p><b>TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:</b>  <a href="#">Hazard statements according to the Regulation (EC) No. 1272/2008-286/2011 (CLP), Annex III:</a>  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. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. H351 Suspected of causing cancer. H373i May cause damage to organs through prolonged or repeated exposure if inhaled.</p> <p><a href="#">R-phrases according to the Directive 67/548/EEC-2001/59/EC (DSD), Annex III:</a>  R10 Flammable. R11 Highly flammable. R12 Extremely flammable. R20 Harmful by inhalation. R21 Harmful in contact with skin. R36 Irritating to eyes. R38 Irritating to skin. R40 Limited evidence of a carcinogenic effect. R41 Risk of serious damage to eyes. R43 May cause sensitization by skin contact. R65 Harmful: may cause lung damage if swallowed. 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. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p><a href="#">Notes related to the identification, classification and labelling of the substances:</a>  Note H : The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown.  Note K : It is unnecessary to apply the classification as carcinogenic if it can be proved that the substance contains less than 0.1% 1,3-butadiene (EC No. 203-450-8) in weight.  Note P : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1% w/w benzene (EC No. 200-753-7).  Note S : This substance may not require a label according to article 23 d) of Regulation (EC) No. 1272/2008 (see section 1.3 of annex I to that Regulation).</p> <p><a href="#">ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:</a>  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.</p> <p><a href="#">MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:</a></p> <ul style="list-style-type: none"> <li>- European Chemicals Agency: ECHA, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a></li> <li>- Access to European Union Law, <a href="http://eur-lex.europa.eu/">http://eur-lex.europa.eu/</a></li> <li>- European Chemicals Bureau: Existing Chemicals, <a href="http://esis.jrc.ec.europa.eu/">http://esis.jrc.ec.europa.eu/</a></li> <li>- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).</li> <li>- Threshold Limit Values, (AGCIH, 2011).</li> <li>- European agreement on the international carriage of dangerous goods by road, (ADR 2013).</li> <li>- International Maritime Dangerous Goods Code IMDG including Amendment 35-10 (IMO, 2010).</li> </ul> <p><a href="#">ABBREVIATIONS AND ACRONYMS:</a>  List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:</p> <ul style="list-style-type: none"> <li>- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.</li> <li>- DSD: Dangerous Substances Directive.</li> <li>- DPD: Dangerous Preparations Directive.</li> <li>- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.</li> <li>- CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.</li> <li>- EINECS: European Inventory of Existing Commercial Chemical Substances.</li> <li>- ELINCS: European List of Notified Chemical Substances.</li> <li>- CAS: Chemical Abstracts Service (Division of the American Chemical Society).</li> <li>- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials).</li> <li>- SVHC: Substances of Very High Concern.</li> <li>- PBT: Persistent, bioaccumulable and toxic substances.</li> <li>- vPvB: Very persistent and very bioaccumulable substances.</li> <li>- VOC: Volatile Organic Compounds.</li> <li>- DNEL: Derived No-Effect Level (REACH).</li> <li>- PNEC: Predicted No-Effect Concentration (REACH).</li> <li>- LD50: Letaal dose, 50 percent.</li> <li>- LC50: Letaal concentration, 50 percent.</li> <li>- UN: United Nations Organisation.</li> <li>- ADR: European agreement concerning the international carriage of dangerous goods by road.</li> <li>- RID: Regulations concerning the international transport of dangerous goods by rail.</li> <li>- IMDG: International Maritime code for Dangerous Goods.</li> <li>- IATA: International Air Transport Association.</li> </ul> <p><a href="#">MATERIAL SAFETY DATA SHEET REGULATIONS:</a>  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.</p> <p><a href="#">HISTORY:</a>                      <a href="#">Date of compilation:</a>  Version: 1                              29/04/2014</p>
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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.