



MTN LIQUID SILVER
Code: EXG0120190



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

1.1	PRODUCT IDENTIFIER:	MTN LIQUID SILVER Code: EXG0120190
1.2	RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST: <u>Intended uses (main technical functions):</u> Liquid paint. <u>Sectors of use:</u> # Professional uses (SU22). # 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:</u> Nor restricted.	[] Industrial [X] Professional [X] Consumers
1.3	DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: MONTANA COLORS, S.L. Pol. Ind. Pla de les Vives - c/Anaïs Nin 6 - 08295 Sant Vicenç de Castellet (Barcelona) ESPAÑA Phone: +34 93 8332760 - Fax: +34 93 8332761 - www.montanacolors.com <u>E-mail address of the person responsible for the safety data sheet:</u> e-mail: msds@montanacolors.com	Call CHEMTREC Day or Night. Within USA and Canada: 1-800-424-9300.
1.4	EMERGENCY TELEPHONE NUMBER: +34 93 8332787 (9:00-17:00 h.) (working hours)	

SECTION 2 : HAZARDS IDENTIFICATION

2.1	CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: <u>HMIS Hazard Ratings:</u>	<table border="1"> <tr><td>3</td><td>HEALTH</td></tr> <tr><td>3</td><td>FLAMMABILITY</td></tr> <tr><td>1</td><td>REACTIVITY</td></tr> <tr><td>G</td><td>PPE</td></tr> </table>	3	HEALTH	3	FLAMMABILITY	1	REACTIVITY	G	PPE	(3) Serious chronic health hazard (3) High flammability hazard (1) Low physicochemical hazard (G) Safety glasses, gloves and vapor respirator
3	HEALTH										
3	FLAMMABILITY										
1	REACTIVITY										
G	PPE										
Note: HMIS Hazard Ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of the material, all the information contained in this SDS must be considered.											
<u>Classification in accordance with Regulation (EU) No. 1272/2008~1221/2015 (CLP):</u> DANGER: Flam. Liq. 2:H225 Skin Irrit. 2:H315 Eye Irrit. 2:H319 STOT SE (irrit.) 3:H335 STOT SE (naresis) 3:H336 STOT RE 2:H373i 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> 	Flam. Liq. 2:H225 Skin Irrit. 2:H315 Eye Irrit. 2:H319	Cat.2 Cat.2 Cat.2	- Skin Eyes	- Skin Eyes	- Irritation Irritation						
<u>Human health:</u> 	STOT SE (irrit.) 3:H335 STOT SE (naresis) 3:H336 STOT RE 2:H373i Asp. Tox. 1:H304 EUH066	Cat.3 Cat.3 Cat.2 Cat.1	Inhalation Inhalation Inhalation Ingestion+Aspiration Skin	Respiratory ways CNS Systemic Lungs Skin	Irritation Narcosis Damage Dead Dryness, Cracking						
<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	LABEL ELEMENTS: 	This product is labelled with the signal word DANGER
<u>Hazard statements:</u> H225 H373i H304 H319 H335 H315 H336	Highly flammable liquid and vapour. May cause damage to organs through prolonged or repeated exposure if inhaled. 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> P101 P102-P405 P103 P210 P271 P280F P301+P310-P330+P331 P303+P361+P353-P352 P304+P340	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Store locked up. Read label before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing.	



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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor if you feel unwell.
P501a Dispose of contents/container in accordance with local regulations.
Supplementary statements:
None.
Substances that contribute to classification:
Xylene (mixture of isomers)
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: No other adverse effects are known.


SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS


3.1 SUBSTANCES:
Not applicable (mixture).


3.2 MIXTURES:
This product is a mixture.
Chemical description:
Mixture of pigments, resins and additives in organic solvents.


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

30 < 40 %  Xylene (mixture of isomers)
CAS: 1330-20-7 , EC: 215-535-7
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 | STOTRE 2:H373i | Asp. Tox. 1:H304

30 < 40 %  Ethyl acetate
CAS: 141-78-6 , EC: 205-500-4
Danger: Flam. Liq. 2:H225 | Eye Irrit. 2:H319 | STOT SE (narcosis) 3:H336 | EUH066

5 < 10 %  Aluminium powder (stabilised)
CAS: 7429-90-5 , EC: 231-072-3
Danger: Flam. Sol. 1:H228 | Water-react. 2:H261

1 < 3 %  Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
(CAS: 64742-48-9) , List No. 918-481-9
Danger: Asp. Tox. 1:H304 | EUH066

1 < 2 %  Hydrocarbons, C9, aromatics
(CAS: 64742-95-6) , List No. 918-668-5
Danger: Flam. Liq. 3:H226 | STOT SE (irrit.) 3:H335 | STOTSE (narcosis) 3:H336 | Asp. Tox. 1:H304 | Aquatic Chronic 2:H411 | EUH066

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.



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SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES:



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. 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, due to the risk of aspiration. Keep the patient at rest.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

The main symptoms and effects are indicated in sections 4.1 and 11

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 known. 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:

Highly flammable liquid and vapour. 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.



ANSI/NFPA 704:
Health: 2
Flammability: 3
Reactivity: 0
Special key: -

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.). Clean preferably with a biodegradable detergent. Avoid use of solvents. Keep the remains in a closed container.



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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. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.
- | | | | |
|--|---|---|--------------------------|
| - Flash point | : | # | 5* °C |
| - Autoignition temperature | : | # | 434* # °C |
| - Upper/lower flammability or explosive limits | : | # | 1.6* - 9.3 % Volume 25°C |
- Recommendations for the prevention of toxicological risks:**
Do not eat, drink or smoke in application and drying areas. 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. 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. 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. |
| Maximum storage period | : | 24. months |
| Temperature interval | : | min: 5.°C, max: 40.°C (recommended). |
- Incompatible materials:**
Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.
Type of packaging:
According to current legislation.



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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 2015	Year	TLV-TWA		TLV-STEL		Remarks
		ppm	mg/m3	ppm	mg/m3	
Xylene (mixture of isomers)	1996	100.	434.	150.	651.	A4 , BEI
Ethyl acetate	1996	400.	1440.	-	-	
Aluminium powder (stabilised)	2007	-	1.0	-	-	Breathable dust A4
Hydrocarbons C10-C13 aliphatics (aromatics <2%)		184.	1200.	-	-	Recommended
Hydrocarbons C9 aromatics		50.	290.	-	-	Recommended

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

A4 - Non classified as carcinogenic in humans.

BEI - Biological exposure index (biological monitoring).

BIOLOGICAL EXPOSURE INDICES (BEI):

This preparation contains the following substances that have established a biological limit value:

- Xylenes (technical or commercial grade) (2011): Biological determinant: methylhippuric acids in urine, BEI: 1.5 g/g creatinine, Sampling time: end of shift (2).

(2) When the end of the exposition not coincide with the end of the working day, the sample will be taken as soon as possible after the real exposition ceases.



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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 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.

OCCUPATIONAL 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, etc.), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:

A-type filter mask (brown) for gases and vapours of organic compounds with a boiling point higher than 65°C (OSHA 29CFR 1910.134 and ANSI Z88.2). 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 (OSHA 29CFR 1910.133). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.

Face shield:

No.

Gloves:

Gloves resistant against chemicals (OSHA 29CFR 1910.132). 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 expects 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 OSHA 29CFR 1910.132. 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:

No.

Clothing:

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. Avoid any release into the atmosphere.

- VOC

: #

705.7 g/l (-H₂O-es)

ASTM D-3960



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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1	<p>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</p> <p><u>Appearance</u></p> <ul style="list-style-type: none"> - Physical state : Liquid. - Colour : Silver. - Odour : Characteristic - Odour threshold : Not available (mixture). <p><u>pH-value</u></p> <ul style="list-style-type: none"> - pH : Not applicable (non-aqueous media). <p><u>Change of state</u></p> <ul style="list-style-type: none"> - Melting point : Not applicable (mixture). - Initial boiling point : # 77.1* °C at 760 mmHg <p><u>Density</u></p> <ul style="list-style-type: none"> - Vapour density : # 3.1* at 20°C 1 atm. Relative air - Relative density : # 0.96* at 20/4°C Relative water <p><u>Stability</u></p> <ul style="list-style-type: none"> - Decomposition temperature : # Not available (technical impossibility to obtain the data). <p><u>Viscosity:</u></p> <ul style="list-style-type: none"> - Dynamic viscosity : # 24. cps 20°C - Kinematic viscosity : # 8.6 mm²/s at 40°C - Viscosity (flow time) : # 11. sec.FC4 20°C <p><u>Volatility:</u></p> <ul style="list-style-type: none"> - Evaporation rate : Not available (lack of data). - Vapour pressure : # 5.2* kPa at 20°C - Vapour pressure : # 20.5* kPa at 50°C <p><u>Solubility(ies)</u></p> <ul style="list-style-type: none"> - Solubility in water : Not available (lack of data). - Liposolubility : Not available (mixture untested). - Partition coefficient: n-octanol/water : Not applicable (mixture). <p><u>Flammability:</u></p> <ul style="list-style-type: none"> - Flash point : # 5* °C CLP 2.6.4.3. - Upper/lower flammability or explosive limits : # 1.6* - 9.3 % Volume 25°C - Autoignition temperature : # 434* # °C <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> Not classified as oxidizing product.</p> <p>*Estimated values based on the substances composing the mixture.</p>
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9.2	<p>OTHER INFORMATION:</p> <ul style="list-style-type: none"> - Heat of combustion : # 8066* Kcal/kg - Solids : # 26.5 % Weight - VOC (supply) : # 73.5 % Weight <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>REACTIVITY:</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>CHEMICAL STABILITY:</p> <p>Stable under recommended storage and handling conditions.</p>
10.3	<p>POSSIBILITY OF HAZARDOUS REACTIONS:</p> <p>Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis, amines, peroxides.</p>
10.4	<p>CONDITIONS TO AVOID:</p> <p><u>Heat:</u> Keep away from sources of heat.</p> <p><u>Light:</u> If possible, avoid direct contact with sunlight.</p> <p><u>Air:</u> # The product is not affected by exposure to air, but should not be left the containers open.</p> <p><u>Humidity:</u> Avoid extreme humidity conditions.</p> <p><u>Pressure:</u> # Not relevant.</p> <p><u>Shock:</u> # The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.</p>
10.5	<p>INCOMPATIBLE MATERIALS:</p> <p>Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.</p>
10.6	<p>HAZARDOUS DECOMPOSITION PRODUCTS:</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 (EU) No. 1272/2008~1221/2015 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:ACUTE TOXICITY:Dose and lethal concentrations

for individual ingredients :

Xylene (mixture of isomers)

Ethyl acetate

Aluminium powder (stabilised)

Hydrocarbons C10-C13 aliphatics (aromatics <2%)

Hydrocarbons C9 aromatics

DL50 (OECD 401)

mg/kg oral

4300. Rat

5620. Rat

15900. Rat

> 5000. Rat

3592. Rat

DL50 (OECD 402)

mg/kg cutaneous

1700. Rabbit

18000. Rabbit

3160. Rabbit

3160. Rabbit

CL50 (OECD 403)

mg/m3.4h inhalation

> 22080. Rat

> 44000. Rat

> 888. Rat

> 4951. Rat

> 6193. 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	ATE > 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	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 :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Respiratory corrosion/irritation:</u> 	Respiratory ways 	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>Systemic:</u> 	RE	Systemic 	Cat.2	# HARMFUL: May cause damage to organs through prolonged or repeated exposure if inhaled.
<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: # 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 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 (EU) No. 1272/2008-1221/2015 (CLP).

12.1	<u>TOXICITY:</u>			
	<u>Acute toxicity in aquatic environment for individual ingredients:</u> Xylene (mixture of isomers) Ethyl acetate Aluminium powder (stabilised) Hydrocarbons C10-C13 aliphatics (aromatics <2%) Hydrocarbons C9 aromatics	<u>CL50 (OECD 203)</u> mg/l.96hours 14. Fishes 212. Fishes 220. Fishes > 1000. Fishes 9.2 Fishes	<u>CE50 (OECD 202)</u> mg/l.48hours 16. Daphnia 164. Daphnia > 100. Daphnia > 1000. Daphnia 3.2 Daphnia	<u>CE50 (OECD 201)</u> mg/l.72hours > 10. Algae > 100. Algae > 100. Algae > 1000. Algae 2.9 Algae
	<u>No observed effect concentration</u> Not available <u>Lowest observed effect concentration</u> Not available			
12.2	<u>PERSISTENCE AND DEGRADABILITY:</u> Not available.			
	<u>Aerobic biodegradation for individual ingredients:</u> Xylene (mixture of isomers) Ethyl acetate Hydrocarbons C10-C13 aliphatics (aromatics <2%) Hydrocarbons C9 aromatics	<u>DQO</u> mgO2/g 2620. 1540. ~ 3500. 3195.	<u>%DBO/DQO</u> 5 days 14 days 28 days ~ 52. ~ 81. ~ 88. ~ 62. ~ 69. ~ 94. ~ 10. ~ 52. ~ 80.	<u>Biodegradability</u> Easy Easy Easy Easy
	Note: Biodegradability data correspond to an average of data from various bibliographic sources.			
12.3	<u>BIOACCUMULATIVE POTENTIAL:</u> # May bioaccumulate.			
	<u>Bioaccumulation for individual ingredients:</u> Xylene (mixture of isomers) Ethyl acetate Hydrocarbons C10-C13 aliphatics (aromatics <2%) Hydrocarbons C9 aromatics	<u>logPow</u> 3.16 0.730 5.65 3.30	<u>BCF</u> L/kg 57. (calculated) 3.2 (calculated) > 100. (calculated) 70. (calculated)	<u>Potential</u> Not available Not available Not available Not available
12.4	<u>MOBILITY IN SOIL:</u> Not available.			



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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:](#)
 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, 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:** 1263

- 14.2 **UN PROPER SHIPPING NAME:**
PAINT

- 14.3 **TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:**

14.4

(Special provision 640D)
VP<110 kPa50°C

[Transport by road \(ADR 2017\) and](#)
[Transport by rail \(RID 2017\):](#)

- Class: 3
- Packaging group: II
- Classification code: F1
- Tunnel restriction code: (D/E)
- Transport category: 2, max. ADR 1.1.3.6. 333 L
- Limited quantities: 5 L (see total exemptions ADR 3.4)
- Transport document: Consignment paper.
- Instructions in writing: ADR 5.4.3.4



[Transport by sea \(IMDG 37-14\):](#)

- Class: 3
- Packaging group: II
- Emergency Sheet (EmS): F-E,S,E
- First Aid Guide (MFAG): 310,313
- Marine pollutant: No.
- Transport document: Shipping Bill of lading.



[Transport by air \(ICAO/IATA 2016\):](#)

- Class: 3
- Packaging group: II
- Transport document: Air Bill of lading.



[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 that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure. Ensure adequate ventilation.

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

SECTION 15 : REGULATORY INFORMATION

- 15.1 **USA REGULATIONS:**
- Occupational Safety and Health Act (OSHA):
 This product is considered to be hazardous under the OSHA Hazard Communication Standard.
- Clean Air Act:
 · 112(r) Hazardous air pollutants (HAP) (40CFR 68): No.
- Clean Water Act:
 · 307 Hazardous water priority pollutants (HWPP): No.
- Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):
 This product contains the following Hazardous Substances for Emergency release notification (40CFR 302):
 Xylene (mixture of isomers): Reportable quantity (RQ): 100 lbs.
 Ethyl acetate: Reportable quantity (RQ): 5000 lbs.
 Releases of CERCLA hazardous substances, in quantities equal to or greater than their reportable quantity (RQ), are subject to reporting to the National Response Center under CERCLA. Such releases are also subject to state and local reporting under section 304 of Emergency Planning and Community Right-to-Know Act (EPCRA), also known as SARA Title III.



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- Superfund Amendments and Reauthorization Act (SARA Title III):

- 302/304 Extremely Hazardous Substances (EHS) for Emergency release notification (40CFR 355): No.

- 313 Reportable Ingredients (40CFR 372):

Xylene (mixture of isomers)

Aluminium powder (stabilised)

- 311/312 Hazard Categories (40CFR 370): Yes.

- Toxic Substance Control Act (TSCA):

All chemical substances in this product comply with all applicable rules or order under TSCA.

- California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product does not contain chemical substances known to the State of California to cause cancer or reproductive toxicity.

OTHER REGULATIONS:

Other local legislations:

The receiver should verify the possible existence of local regulations applicable to the chemical.

SECTION 16 : OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Hazard statements according the Regulation (EU) No. 1272/2008-1221/2015 (CLP), Anexo III:

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H228 Flammable solid. H261 In contact with water releases flammable gases. 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. H411 Toxic to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. H373i May cause damage to organs through prolonged or repeated exposure if inhaled.

Notes related to the identification, classification and labelling of the substances:

Note T : This substance may be marketed in a form which does not have the physico-chemical properties as indicated by the classification in the Annex I entry.

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, 2015).

- European agreement on the international carriage of dangerous goods by road, (ADR 2017).

- 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:

- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.

- CLP: European regularion on Classificatin, Labelling amd Packaging of substances and chemical mixtures.

- CAS: Chemical Abstracts Service (Division of the American Chemical Society).

- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials).

- VOC: Volatile Organic Compounds.

- LD50: Letal dose, 50 percent.

- LC50: Letal concentration, 50 percent.

- UN: United Nations Organisation.

- ADR: European agreement concerning the international carriage of dangeous goods by road.

- RID: Regulations concerning the international transport of dangeous goods by rail.

- IMDG: International Maritime code for Dangerous Goods.

- IATA: International Air Transport Association.

- ICAO: International Civil Aviation Organizatio n.

SAFETY DATA SHEET REGULATIONS:

Safety Data Sheet in accordance with the requirements of the OSHA Hazard Communication Standard, 29CFR 1910.1200.

HISTORY:

Version: 1

Revision:

22/06/2016

Version: 2

13/11/2017

Modifications with respect to the previous Material Safety Data Dheet:

The possible legislative, contextual, numerical, methodological and normative changes with respect to the previous version are highlighted in this Material Safety Data Sheet by a mark # in red and italic.

The information of this 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.