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Version:

MTN LIQUID COPPER Code: EXG0120193 Revision: 24/09/2018

Previous revision: 13/11/2017



Date of printing: 24/09/2018

[_] Industrial [X] Professional [X] Consumers

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

MTN LIQUID COPPER Code: EXG0120193 PRODUCT IDENTIFIER: 1.1

RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST: 1.2

d uses (main technical functions): Liquid paint.

Sectors of use:
Professional uses (SU22).

Consumer uses (SU21).

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'.

s on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:

Not restricted.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Pol. Ind. Plà de les Vives - c/An aïs Nin 6 - 08295 Sant Vicenç de Castellet (Barcelona) ESPAÑA Phone: +34 93 8332760 - Fax: +34 93 8332761 - www.montanacolors.com

of the person responsible for the Safety Data Sheet:

e-mail: msds@montanacolors.com

EMERGENCY TELEPHONE NUMBER: +34 93 8332787 (9:00-17:00 h.) (working hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE ORMIXTURE:

Classification in accordance with Regulation (EU) No. 1272/2008-2017/776 (CLP):

DANGER: Flarm, Liq. 2:H225 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | STOT SE (irrit.) 3:H335 | STOT SE (narcosis) 3:H336 | STOT RE 2:H373i | Asp. Tox. 1:H304 | EUH066

Danger class	Classification of the mixture	Cat.	Routes of exposure	Target organs	Effects
Physicochemical:	Flam. Liq. 2:H225 Skin Irrit. 2:H315 Eye Irrit. 2:H319 STOT SE (irrit.) 3:H335 STOT SE (narcosis) 3:H336 STOT RE 2:H373i	Cat.2 Cat.2 Cat.2 Cat.3 Cat.3 Cat.2	- Skin Eyes Inhalation Inhalation	- Skin Eyes Respiratory tract CNS Systemic	- Irritation Irritation Irritation Narcosis Damage
Environment: Not classified	Asp. Tox. 1:H304 EUH066	Cat.1	Ingestion+Aspiration Skin	Lungs Skin	Dead Dryness, Cracking

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

LABEL ELEMENTS: 2.2



This product is labelled with the signal word DANGER in accordance with Regulation (EU) No. $1272/2008 \sim 2017/776$ (CLP)

Hazard statements

H225 H373i

Highly flammable liquid and vapour.
May cause damage to organs through prolonged or repeated exposure if inhaled. H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation. May cause respiratory irritation. H335

H315 Causes skin irritation

H336 May cause drowsiness or dizziness.

autionary statements:

P101 If medical advice is needed, have product container or label at hand. P102-P405 Keep out of reach of children. Store locked up.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271 Use only outdoors or in a well-ventilated area. P280F

P301+P310-P330+P331

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 P303+P361+P353-P352-P312

of soap and water. Call a POISON CENTER or doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you P304+P340-P312

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. P501a Dispose of contents/container in accordance with local regulations

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Supplementary statements:

None.
Substances that contribute to classification:
Xylene (mixture of isomers)

Acetone

OTHER HAZARDS: 2.3

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 fulfil the PBT/vPvB criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:

Not applicable (mixture).

/IXTURES 32

This product is a mixture.

Mixture of pigments, resins and additives in organic solvents.

HAZARDOUS INGREDIENTS:

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

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 | STOT SE (irrit.) 3:H335 | STOT RE 2:H373i | Asp. Tox. 1:H304 50 < 60 %

Index No. 601-022-00-9 < REACH

15 < 20 %

Autoclassified < REACH

Copper powder (fine) > 9.1 mm2/mg CAS: 7440-50-8 , EC: 231-159-6 REACH: 01-2119480154-42 CLP: Danger: Flam. Sol. 1:H228 | Aquatic Acute 1:H400 | Aquatic Chronic 3:H412 **★** 15 < 20 %

(1)

Acetone

CAS: 67-64-1 , EC: 200-662-2 REACH: 01-2119471330-49 CLP: Danger: Flam. Liq. 2:H225 | Eye Irrit. 2:H319 | STOT SE (narcosis) 3:H336 | EUH066

Index No. 606-001-00-8 < REACH / ATP01

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

Stabilizers: None

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

SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 15/01/2018.

unces 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 fulfil the PBT/vPvB criteria.

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SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST-AID MEASURES: 4.1



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 giving artificial respiration by mouth-to-mouth (the kiss of life).

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	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.
Skin:	Skin contact causes redness. Prolonged contact may cause skin dryness.	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.
Eyes:	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.
Ingestion:	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

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

4.3

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTIONAND 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

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.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: 5.2

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

ADVICE FOR FIREFIGHTERS: 5.3

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 is not being used, combat fire from a sheltered position or from 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

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

REFERENCE TO OTHER SECTIONS: 6.4

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 waste disposal, follow the recommendations in section 13.

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SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: 7.1

Comply with the existing legislation on health and safety at work.

Avoid any type of leakage or escape. Keep the container tightly closed.

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.

-3* °C 79* °C Flash point Autoignition temperature 479*

- Autoignition temperature
- Upper/lower flammability or explosive limits
- Upper/lower flammability or explosive limits
- 1.6* - 9.0 % 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:

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. 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 storage Maximum storage period # According to current legislation. 24. months

min: 5. °C, max: 40. °C (recommended). Temperature interval Incompatible materials

Keep away from oxidixing agents, from strongly alkaline and strongly acid materials.

Type of packaging: According to current legislation.

7.3

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

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS 8.1

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 2017	Year	TLV-TWA		TLV-STEL		Remarks
		ppm	mg/m3	ppm	mg/m3	
Xylene (mixture of isomers)	1996	100.	434.	150.	651.	A4 ,BEI
Copper powder (fine) > 9.1 mm2/mg	1990	-	1.0	-	-	Powder and mist
Acetone	2014	250.	594.	500.	1188.	A4 ,BEI

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 LIMIT VALUES:
 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
- Acetone (2014): Biological determinant: acetone in urine, BEI: 25 mg/l, Sampling time: end of shift (2), Notation: (Ns).

 (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

(Ns) Non-specific. The determinant is non-specific, since it is also observed after exposure to other chemicals.

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.

process dimerent of the tree in					
Derived no-effect level, workers: - Systemic effects, acute and chronic: Xylene (mixture of isomers) Copper powder (fine) > 9.1 mm2/mg Acetone	DNEL Inhalation mg/m3 289. (a) 77.0 (c) 20.0 (a) - (c) - (a) 1210. (c)	DNEL Cutaneous mg/kg bw/d s/r (a) 180. (c) 273. (a) 137. (c) - (a) 186. (c)	DNEL Oral mg/kg bw/d - (a) - (c) - (a) - (c) - (a) - (c)		
Derived no-effect level, workers: - Local effects, acute and chronic: Xylene (mixture of isomers) Copper powder (fine) > 9.1 mm2/mg Acetone	DNEL Inhalation mg/m3 289. (a) s/r (c) 1.00 (a) 1.00 (c) 2420. (a) - (c)	DNEL Cutaneous mg/cm2 s/r (a) s/r (c) s/r (a) s/r (c) - (a) - (c)	DNEL Eyes mg/cm2 - (a) - (c) s/r (a) - (c) - (a) - (c)		
Derived no-effect level, general population: - Systemic effects, acute and chronic: Xylene (mixture of isomers) Copper powder (fine) > 9.1 mm2/mg Acetone	DNEL Inhalation mg/m3 174. (a) 14.8 (c) 20.0 (a) - (c) - (a) 200. (c)	DNEL Cutaneous mg/kg bw/d s/r (a) 108. (c) 273. (a) 137. (c) - (a) 62.0 (c)	DNEL Oral mg/kg bw/d s/r (a) 1.60 (c) - (a) - (c) - (a) 62.0 (c)		
Derived no-effect level, general population: - Local effects, acute and chronic: Xylene (mixture of isomers) Copper powder (fine) > 9.1 mm2/mg Acetone	DNEL Inhalation mg/m3 174. (a) s/r (c) 1.00 (a) 1.00 (c) - (a) - (c)	DNEL Cutaneous mg/cm2 s/r (a) s/r (c) s/r (a) s/r (c) - (a) - (c)	DNEL Eves mg/cm2 - (a) - (c) b/r (a) - (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).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermitent release: Xylene (mixture of isomers) Copper powder (fine) > 9.1 mm2/mg Acetone	PNEC Fresh water mg/l 0.327 0.00780 10.6	PNEC Marine mg/l 0.327 0.00520 1.06	PNEC Intermittent mg/l 0.327 - 21.0
- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Xylene (mixture of isomers) Copper powder (fine) > 9.1 mm2/mg Acetone	PNEC STP	PNEC Sediments	PNEC Sediments
	mg/l	mg/kg dry weight	mg/kg dry weight
	6.58	12.5	12.5
	0.230	87.0	676.
	100.	30.4	3.04

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

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ore.com			
Predicted no-effect concentration, terrestrial organisms:	PNEC Air	PNEC Soil	PNEC Oral
- Air, soil and effects for predators and humans:	mg/m3	mg/kg dry weight	mg/kg bw/d
Xylene (mixture of isomers)	-	2.31	-
Copper powder (fine) > 9.1 mm2/mg	-	65.0	n/b
Acetone	-	29.5	n/b

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

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 install water taps or sources with clean water close to the working area.

Protection of hands and skin: It is recommended to install 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.

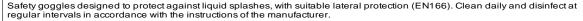
OCCUPATIONALEXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:

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.

Mask:
0-6-6-

AX-type filter mask (brown) for gases and vapours of organic compounds with a boiling point less or equal to 65°C (EN14387), with single-use filters. Class 1: low capacity up to 1000 ppm, Class 2: medium capacity up to 5000 ppm, Class 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.

Safety goggles:



Face shield:

No.

Gloves:



Gloves resistant against chemicals (EN374). When repeated or prolonged contact with the product is expected, gloves of protection level 5 or higher should be used, with a breakthrough time of >240 min. When short contact with the product is expected, use gloves with a protection level 2 or higher should be used, with a breakthrough time >30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, the instructions/specifications provided by the glove supplier should be taken into account. 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.

ots:		

No No

Apron:	
Clothing	

Во

Advisable.

<u>Thermal hazards:</u>
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: # Toxic to aquatic organisms. May cause long-term adverse effects on the aquatic environment. Do not allow to escape into drains,

 Sewers or water courses.
 Water ManagementAct: This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.

VOC (industrial installations): If this product is used in an industrial installation, it must be verified if it is applicable the Directive 2010/75/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents in certain activities and installations: Solvents: 68.0% Weight, VOC (supply): 68.0% Weight, VOC: 57.3% C (expressed as carbon), Molecular weight (average): 95.6, Number C atoms (average): 6.7.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES: 9.1 <u>Appearance</u> Physical state Liquid. Cupper. Characteristic Colour Odour Odour threshold Not available (mixture). pH-value рΗ Not applicable (non-aqueous media). Change of state - Melting point Not applicable (mixture). Initial boiling point 56.2* °C at 760 mmHg Density 2.12* at 20°C 1 atm. 1.038* at 20/4°C Vapour density Relative air Relative density Relative water Decomposition temperature Not available (technical impossibility to obtain the data). Viscosity: - Dynamic viscosity 22. cps 20°C 7.3 mm2/s at 40°C Kinematic viscosity Viscosity (flow time) 10. sec.FC4 20°C Volatility: - Evaporation rate - Vapour pressure - Vapour pressure Not available (lack of data). 9* kPa at 20° 30.8* kPa at 50°C at 20°C Solubility(ies) - Solubility in water Not available (lack of data). LiposolubilityPartition coefficient: n-octanol/water Not available (mixture untested). Not applicable (mixture). Flammability: -3* °C 1.6*- 9.0 % Volume 25°C 479* °C # CLP 2.6.4.3. Flash point Upper/lower flammability or explosive limits Autoignition temperature e 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. *Estimated values based on the substances composing the mixture. 9.2 **OTHER INFORMATION:** *8003 Heat of combustion Kcal/kg Solids VOC (supply) VOC (supply) 32. % Weight 68.0 % Weight 706.0 The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12. **SECTION 10: STABILITY AND REACTIVITY** REACTIVITY: 10.1 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 POSSIBILITY OF HAZARDOUS REACTIONS: Possible dangerous reaction with water, oxidizing agents, acids, alkalis, amines, peroxides. 10.3 10.4 CONDITIONS TO AVOID: Heat: Keep away from sources of heat. Light: If possible, avoid direct contact with sunlight. Light: It possible, avoid direct contact with sunlight. Air: The product is not affected by exposure to air, but should not be left the containers open. Humidity: Avoid extreme humidity conditions. Pressure: Not relevant. Shock: 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. 10.5 INCOMPATIBLE MATERIALS: Keep away from oxidixing 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. Page 7 of 11 Item Numbers: 01296-9504

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SECTION 11: TOXIC OLOGICAL 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. 1272/2008~2017/776 (CLP).

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations	DL50 (OECD 401)	DL50 (OECD 402)	CL50 (OECD 403)
for individual ingredients:	mg/kg oral	mg/kg cutaneous	mg/m3.4h inhalation
Xylene (mixture of isomers)	4300. Rat	1700. Rabbit	> 22080. Rat
Copper powder (fine) > 9.1 mm2/mg	2500. Rat	> 2000. Rat	> 1030. Rat
Acetone	5800. Rat	15800. Rabbit	> 76000. Rat

No observed adverse effect level

Not available

owest observed adverse effect level

Not available

| INFORMATION ON LIKELY ROUTES OF EX POS URE : Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
Inhalation: 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).	CLP 3.1.3.6.
Skin: 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).	CLP 3.1.3.6.
Eyes: Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).	CLP 1.2.5.
Ingestion: 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).	CLP 3.1.3.6.

CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).

CORROSION/IRRITATION/SENSITISATION:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Respiratory corrosion/irritation:	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	CLP 1.2.6. 3.8.3.4.
Skin corrosion/irritation:	Skin	Cat.2	IRRITANT: Causes skin irritation.	CLP 3.2.3.3.
Serious eye damage/irritation:	Eyes	Cat.2	IRRITANT: Causes serious eye irritation.	CLP 3.3.3.3.
Respiratory sensitisation: Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	CLP 3.4.3.3.
Skin sensitisation: Not classified	-	-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).	CLP 3.4.3.3.

CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components. CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components. CLP 3.4.3: Classification of the mixture when data are available for all components or only for some components. CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
Aspiration hazard:	Lungs	Cat.1	HAZARD OF ASPIRATION: May be fatal if swallowed and enters airways.	CLP 3.10.3.3.

CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

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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	Criteria			
Systemic:	RE	Systemic	Cat.2	HARMFUL: May cause damage to organs through prolonged or repeated exposure if inhaled.	CLP 3.8.3.4.			
Respiratory:	SE	Respiratory tract	Cat.3	IRRITANT: May cause respiratory irritation.	CLP 3.8.3.4.			
Cutaneous:	RE	Skin	-	DEFATTENING: Repeated exposure may cause skin dryness or cracking.	CLP 1.2.4.			
Neurological:	SE	CNS	Cat.3	NARCOSIS: May cause drowsiness or dizziness if inhaled.	CLP 3.8.3.4.			

CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

CMR EFFECTS:
Carcinogenic effects: It is not considered as a carcinogenic product.
Genotoxicity: It is not considered as a mutagenic product.
Toxicity for reproduction: Does not harm fertility. Does not harm the unborn child.
Effects via lactation: Not classified as a hazardous product for children breast-fed.

DELAYED AND IMMEDIATE EFFECTS AS WELLAS 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 aspirated 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.

<u>Long-term or repeated exposure:</u> 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 TOXICOCINE TICS, METABOLISM AND DISTRIBUTION:

Dermal absorption: Not available.

Basic toxicokinetics: Not available.

ADDITIONAL INFORMATION:

Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1	ventional calculation method of the Regulation (EU) No. 1272/2008–2017/776 (CLP). TOXICITY:							
12.1	Acute toxicity in aquatic environment for individual ingredients: Xylene (mixture of isomers) Copper powder (fine) > 9.1 mm2/mg Acetone	CL50 (OECD 203) mg/L96hours 14. Fishes 0.81 Fishes 5540. Fishes	CE50 (OECD 202) mg/l.48hours 16. Daphnia 0.79 Daphnia 12100. Daphnia	CE50 (OECD 201) mg/l.72hours > 10. Algae 0.15 Algae				
	No observed effect concentration Not available Lowest observed effect concentration Not available							
12.2	PERSISTENCE AND DEGRADABILITY: Not available.							
	Aerobic biodegradation for individual ingredients: Xylene (mixture of isomers) Copper powder (fine) > 9.1 mm2/mg Acetone	DQO mgO2/g 2620. 1920.	%DBO/DQO 5 days 14 days 28 days ~ 52. ~ 81. ~ 88. 0. ~ 91.	Biodegradability Easy Not available Easy				
	Note: Biodegradability data correspond to an average of data from various bibliographic sources.							
12.3	BIOACCUMULATIVE POTENTIAL: May bioaccumulate.							
	Bioaccumulation for individual ingredients : Xylene (mixture of isomers) Acetone	3.16 -0.240	BCF L/kg 57. (calculated) 3.2 (calculated)	Potential Not available Not available				

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.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: 14.7

SECTION 15: REGULATORY INFORMATION

EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC: The regulations applicable to this product generally are listed throughout this Safety Data Sheet.

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

Tactile warning of danger: 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.'

Child safety protection: If the product is intended for the general public, is required a child-resistant fastening. Child-proof fastenings used on reclosable packages shall comply with ISO standard 8317 relating to 'Child resistant packages - Requirements and methods of testing for reclosable packages.' Child-proof fastenings used on non-reclosable packages shall comply with CEN standard EN 862, relating to 'Packaging - Child-resistant packaging - Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products.'

OTHER REGULATIONS

Other local legislations

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

CHEMICAL SAFETY ASSESSMENT:

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3: Hazard statements according the Regulation (EU) No. 1272/2008~2017/776 (CLP), Annex III:

Hazard statements according the Regulation (EU) No. 1272/2008–2017/776 (CLP), Annex III: H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H228 Flammable solid. 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. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects. EUH0 66 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 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 (Noves Data Co., 1970).
- Threshold Limit Values, (AGCIH, 2016).
- European agreement on the international carriage of dangerous goods by road, (ADR 2017).
 International Maritime Dangerous Goods Code IMDG including Amendment 38-16 (IMO, 2016).

ABBREVIATIONS AND ACRONYMS: List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
 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.
- 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.
- PPB: Persistent, bloaccumulable 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: Lethal dose, 50 percent.

- LC50: Lethal 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 Organization

SAFETY DATA SHEET REGULATIONS:
Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

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Changes since previous Safety Data Sheet:

Legislative, contextual, numerical, methodological and normative changes since the previous version of the present Safety Data Sheet are identified by a red-italic hash (#).

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 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.

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