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

PRODUCT IDENTIFIER: MTN STREET INK RED Code: SPTI011302

RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST: 1.2

Intended uses (main technical functions):

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

Liquid printing ink. ectors of use

Consumer uses (SU21).

Jses advised against

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.

Restrictions 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:

MONTANA COLORS, S.L.

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

E-mail address of the person responsible for the Safety Data Sheet:

e-mail: msds@ montanacolors.com

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

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE ORMIXTURE: 2.1

fication in accordance with Regulation (EC) No. 1272/2008~487/2013 (CLP):

DANGER: Flam. Liq. 2:H225 | Eye Irrit. 2:H319 | Skin Sens. 1:H317 | STOT SE (narcosis) 3:H336

Danger class	Classification of the mixture	Cat.	Routes of exposure	Targetorgans	Effects
Physicochemical: Human health: Invironment: Not classified	Flam. Liq. 2:H225	Cat.2	-	-	-
	Eye Irrit. 2:H319	Cat.2	Eyes	Eyes	Irritation
	Skin Sens. 1:H317	Cat.1	Skin	Skin	Allergy
	STOT SE (narcosis) 3:H336	Cat.3	Inhalation	CNS	Narcosis

Full text of hazard statements mentioned is indicated in section 16.

2.2 LABEL ELEMENTS:



This product is labelled with the signal word DANGER in accordance with Regulation (EC) No. 1272/2008~487/2013 (CLP)

Hazard statements:

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H317 May cause an allergic skin reaction.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P103 Read label before use.

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

P303+P361+P353-P352-P312 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of

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

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

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

Supplementary statements:

None. Hazardous ingredients:

Rosin-fumaric acid and pentaerythritol ester

1-ethoxypropan-2-ol Isopropyl alcohol

P305+P351+P338

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: Prolonged contact may cause skin dryness.

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).

3.2 MIXTURES:

This product is a mixture.

Chemical description:

Mixture of pigments, resins and additives in organic solvents.

In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 2015/830

HAZARDOUS INGREDIENTS:

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

50 < 60 % (*)	Ethyl alcohol CAS: 64-17-5 , EC: 200-578-6 CLP: Danger: Flam. Liq. 2:H225 Eye Irrit. 2:H319	REACH: 01-2119457610-43	Index No. 603-002-00-5 < REACH
15 < 20 %	Resin acids and rosin acids, fumarated, esters with CAS: 94581-15-4. EC: 305-514-1	pentaerythritol REACH: 01-2119485895-17	Autoclassified
<u>(!)</u>	CLP: Warning: Eye Irrit. 2:H319 Skin Sens. 1:H31		< REACH
10 < 15 %	1-ethoxypropan-2-ol		
(3)	CAS: 1569-02-4 , EC: 216-374-5 CLP: Warning: Flam. Liq. 3:H226 Eye Irrit. 2:H319	REACH: 01-2119462792-32 STOTSE (nar ໝ sis) 3:H336	Index No. 603-177-00-8 < REACH
5 < 10 %	Isopropyl alcohol		
(b) (!)	CAS: 67-63-0 , EC: 200-661-7 CLP: Danger: Flam. Liq. 2:H225 Eye Irrit. 2:H319	REACH: 01-2119457558-25 STOT SE (narcosis) 3:H336	Index No. 603-117-00-0 < REACH / ATP01

Impurities:

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

Stabilizers:

None

Reference to other sections:

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

SUBSTANCES OF VERY HIGH CONCERN (SVHC):

List updated by ECHA on 17/12/2015.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:

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





SECTION 4: FIRST AID MEASURES

4.1 4.2

DESCRIPTION OF FIRST-AID MEASURES AND MOST SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:



Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
Inhalation:	Inhalation of solvent vapours may produce headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness.	Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
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. In the case of skin reddening or rashes, contact a doctor immediately.
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.

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

Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient. Antidotes and contraindications: Specific antidote not known.

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. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides. Irritant. Exposure to combustion or decomposition products may be a hazard to health.

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: 6.1

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid dire a 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.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: 6.3

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.





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 : 15. ° Autoignition temperature : 394. °

- Upper/lower flammability or explosive limits : 3.0 - 18.1 % 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.

<u>Class of storage</u> : According to current legislation.

Maximum storage period : 24. months

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

Incompatible materials

Keep away from reducing agents, oxidizing agents, acids, alkalis.

Type of packaging:

According to current legislation.

Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC: Lower threshold: 5000 tons , Upper threshold: 50000 tons

7.3 SPECIFIC END USES:

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





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 assesing 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 2013	<u>Year</u>	TLV-TWA		TLV-STEL		Remarks
Ethyl alcohol	1996	ppm 1000.	mg/m3 1880.	ppm -	mg/m3	A4
1-ethoxypropan-2-ol	1000	50.	220.	-	-	Recommended
Isopropyl alcohol	2003	200.	491.	400.	982.	A4

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

A4 - Non classified as carcinogenic in humans.

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

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

Derived no-effect level, workers: - Systemic effects, acute and chronic: Ethyl alcohol Rosin-fumaric acid and pentaerythritol ester 1-ethoxypropan-2-ol Isopropyl alcohol	DNEL Inhalation mg/m3 s/r (a) 950. (c s/r (a) 29.0 (c 211. (a) 317. (c - (a) 500. (c	s/r (a) 4.00 (c) s/r (a) 74.0 (c)	DNEL Oral mg/kg bw/d - (a) - (c) - (a) - (c) - (a) - (c) - (a) - (c)
Derived no-effect level, workers: - Local effects, acute and chronic: Ethyl alcohol Rosin-fumaric acid and pentaerythritol ester 1-ethoxypropan-2-ol Isopropyl alcohol	DNEL Inhalation mg/m3 1900. (a)	s/r (a) s/r (c) s/r (a) s/r (c)	DNEL Eyes mg/cm2 - (a) - (c) m/r (a) - (c) s/r (a) - (c) - (a) - (c)
Derived no-effect level, general population: - Systemic effects, acute and chronic: Ethyl alcohol Rosin-fumaric acid and pentaerythritol ester 1-ethoxypropan-2-ol Isopropyl alcohol	DNEL Inhalation mg/m3 s/r (a) 114. (c s/r (a) 9.00 (c 190. (a) 127. (c - (a) 89.0 (c	s/r (a) 2.50 (c) s/r (a) 44.3 (c)	DNEL Oral mg/kg bw/d s/r (a) 87.0 (c) s/r (a) 2.50 (c) s/r (a) 14.0 (c) - (a) 26.0 (c)
Derived no-effect level, general population: - Local effects, acute and chronic: Ethyl alcohol Rosin-fumaric acid and pentaerythritol ester 1-ethoxypropan-2-ol Isopropyl alcohol	DNEL Inhalation mg/m3 950. (a) s/r (c) s/r (a) s/r (c) s/r (a) s/r (c) - (a) - (c)	s/r (a) s/r (c) s/r (a) s/r (c)	DNEL Eyes mg/cm2 - (a) - (c) m/r (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).
- m/r DNEL not derived (medium hazard).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermittent release: Ethyl alcohol Rosin-fumaric acid and pentaerythritol ester 1-ethoxypropan-2-ol Isopropyl alcohol	PNEC Fresh water mg/l 0.960 0.100 10.0 141.	PNEC Marine mg/l 0.790 0.0100 1.00 141.	PNEC Intermittent mg/l 2.75 1.00 10.0 141.
- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Ethyl alcohol Rosin-fumaric acid and pentaerythritol ester 1-ethoxypropan-2-ol Isopropyl alcohol	PNEC STP mg/l 580. 1.26 1250. 2251.	PNEC Sediments mg/kg dry weight 3.60 1.55 37.6 552.	PNEC Sediments mg/kg dry weight 2.90 0.155 3.76 552.
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans: Ethyl alcohol Rosin-fumaric acid and pentaerythritol ester 1-ethoxypropan-2-ol Isopropyl alcohol	PNEC Air mg/m3 - s/r - -	PNEC Soil mg/kg dry weight 0.630 0.249 2.40 28.0	PNEC Oral mg/kg bw/d 720. n/b 142. 160.

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





8.2 EXPOSURE CONTROLS:

ENGINEERING MEASURES:





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

Protection of respiratory system: Avoid the inhalation of vapours.

Protection of eyes and face: It is recommended to 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.

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

PPE, protection class, in	arking, category, CEN norm, 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 (EN14387). 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:	Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.
Face shield:	No.
Gloves:	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.
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 (industrial installations): If this product is used in an industrial installation, it must be verified if it is applicable the Directive 1999/13/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents in certain activities and installations: Solvents: 76.4% Weight, VOC (supply): 76.4% Weight, VOC: 41.0% C (expressed as carbon), Molecular weight (average): 56.4, Number C atoms (average): 2.5.

Relative air

Relative water



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance Physical state

Odour

Odour threshold

pH-value

рΗ

Change of state

Melting point Initial boiling point

Density

 Vapour density Relative density

Stability

Decomposition temperature

Viscosity:

Viscosity (flow time)

Volatility:

Vapour pressure Vapour pressure

Solubility(ies) - Solubility in water

Liposolubility

- Partition coefficient: n-octanol/water

Flammability:

- Flash point

Upper/lower flammability or explosive limits

Autoignition temperature

Explosive properties

Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source.

Oxidizing properties

Not classified as oxidizing product.

9.2 OTHER INFORMATION:

23.6 % Weight - Solids - VOC (supply) 76.4 % Weight VOC (supply) 655.7 g/l

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.

Liquid.

Characteristic Not available (mixture).

Not available

Not applicable (non-aqueous media).

78.3 °C at 760 mmHg

1.65 at 20°C 1 atm.

5.6 kPa at 20°C 27.6 kPa at 50°C

3.0 - 18.1 % Volume 25°C 394. °C

0.858 at 20/4°C

163. °C

Not applicable (mixture).

Not available (lack of data). Not available (mixture untested).

Not applicable (mixture).

SECTION 10: STABILITY AND REACTIVITY

10.1 **REACTIVITY:**

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

10.2 CHEMICAL STABILITY: Stable under recommended storage and handling conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: 10.3

Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis.

10.4 CONDITIONS TO AVOID:

Heat: Keep away from sources of heat.

Light: If possible, avoid direct contact with sunlight. Air: Not applicable.

Humidity: Avoid extreme humidity conditions.

Pressure: Not applicable.

Shock: Not applicable.

INCOMPATIBLE MATERIALS: 10.5

Keep away from reducing agents, oxidizing agents, acids, alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS: 10.6

As consequence of thermal decomposition, hazardous products may be produced: nitrogen oxides, sulfur oxides.





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 (EC) No. 1272/2008~487/2013 (CLP).

11.1 <u>INFORMATION ON TOXICOLOGICAL EFFECTS:</u>

ACI	JTE	TOX	ICITY:	

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
Ethyl alcohol	10470. Rat	> 20000. Rabbit	> 20000. Rat
Rosin-fumaric acid and pentaerythritol ester	> 2000. Rat	> 2000. Rat	
1-ethoxypropan-2-ol	7110. Rat	8100. Rabbit	> 9590. Rat
Isopropyl alcohol	5045. Rat	12800. Rabbit	> 72600. Rat

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

LINFORMATION ON LIKELY ROUTES OF EX POSURE : Acute toxicity:

INFORMATION ON LIKELY ROUTES OF EXPOSURE : Acute toxicity:						
Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed			
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).			
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).			
Eyes: Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).			
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).			

CORROSION/IRRITATION/SENSITISATION:

COTATO CICITY II ATTATIVITION / CENTRAL	<u> </u>		
Danger class	Target organs	Cat.	Main effects, acute and/or delayed
Respiratory corrosion/irritation: Not classified	-	-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).
Skin corrosion/irritation: Not classified	-	-	Not classified as a product corrosive or irritant in contact with skin (based on available data, the classification criteria are not met).
Serious eye damage/irritation:	Eyes	Cat.2	IRRITANT: Causes serious eye irritation.
Respiratory sensitisation: Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).
Skin sensitisation:	Skin	Cat.1	SENSITISING: May cause an allergic skin reaction.

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
Aspiration hazard: Not classified	-	-	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).

SPECIFIC TARGET ORGAN	S TOXICITY (STOT)	 Single exposure (SF)) and/or Repeated exposi-	ire (RF)

Effects	SE/RE	Target organs	Cat.	Main effects, acute and/or delayed
Neurological:	SE	CNS	Cat.3	NARCOSIS: May cause drowsiness or dizziness if inhaled.



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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 WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: May be absorbed by inhalation of vapour, through the skin and by ingestion.

Short-term exposure: Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. May cause sensitization by skin contact. 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 TOXICOCINE TICS, METABOLISM AND DISTRIBUTION:

<u>Dermal absorption:</u> Not available. <u>Basic toxicokinetics:</u> 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. 1272/2008~487/2013 (CLP)

12.1	TOXICITY:					
	Acute toxicity in aquatic environment for individual ingredients: Ethyl alcohol Rosin-fumaric acid and pentaerythritol ester 1-ethoxypropan-2-ol Isopropyl alcohol	CL50 (OECD 203) mg/l.96hours 14200. Fishes 400. Fishes 6812. Fishes 9640. Fishes	CE50 (OECD 202) mg/l.48hours 5012. Daphnia > 100. Daphnia 180. Daphnia 13300. Daphnia	CE50 (OECD 201) mg/l72hours		
	No observed effect concentration Not available Lowest observed effect concentration					

Not available

12.2 PERSISTENCE AND DEGRADABILITY:

Not available.

Aerobic biodegradation	DQO	%DBO/DQO	Biodegradability
for individual ingredients :	mgO2/g	5 days 14 days 28 days	
Ethyl alcohol	1990.	~ 74. ~ 95. ~ 99.	Easy
Rosin-fumaric acid and pentaerythritol ester			Noteasy
1-ethoxypropan-2-ol	1536.	~ 10. ~ 60. ~ 78.	Easy
Isopropyl alcohol	2396.		Easy

Note: Biodegradability data correspond to an average of data from various bibliographic sources.

12.3 **BIOACCUMULATIVE POTENTIAL:**

Not available.

Bioaccumulation for individual ingredients :	logPow	BCF L/kg			<u>Potential</u>
Ethyl alcohol Rosin-fumaric acid and pentaerythritol ester	-0.310 3.41		3.2	(,	No bioaccumulable No bioaccumulable
1-ethoxypropan-2-ol	-0.170			(calculated)	No bioaccumulable
Isopropyl alcohol	0.0500		3.2	(calculated)	No bioaccumulable

MOBILITY IN SOIL: 12.4

12.5 RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:

Does not contain substances that fulfil 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.

SECTION 13: DISPOSAL CONSIDERATIONS

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 at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.



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Disposal of empty containers: Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC~2014/955/EU:

Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of empting of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:

Controlled incineration in special facilities for chemical waste, in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER: 1210 14.1

UN PROPER SHIPPING NAME: 14.2

PRINTING INK

TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP: 14.3

Transport by road (ADR 2015) and Transport by rail (RID 2015):

- Packaging group: İ Classification code: 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



Class: 3 Packaging group:Emergency Sheet (EmS): F-F.S-D - First Aid Guide (MFAG): 311 - Marine pollutant: No.

- Transport document: Shipping Bill of lading.

Transport by air (ICAO/IATA 2014):

- Packaging group:

- Transport document: Air Bill of lading.

Transport by inland waterways (ADN):

Not available.

ENVIRONMENTAL HAZARDS 14.5

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:

Not applicable.

14.7

SECTION 15: REGULATORY INFORMATION

EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC 15.1

The regulations applicable to this product generally are listed throughout this Safety Data Sheet.

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: Not applicable (the classification criteria are not met).

OTHER REGULATIONS:

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

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

15.2 CHEMICAL SAFETY ASSESSMENT:

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

(Special provision 640D) VP<110 kPa50ºC





SAFETY DATA SHEET (REACH)

In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 2015/830



MTN STREET INK RED Code: SPTI011302



SECTION 16: OTHER INFORMATION

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

Hazard statements according the Regulation (EC) No. 1272/2008~487/2013 (CLP), Annex III:

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H413 May cause long lasting harmful effects to aquatic life.

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 (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH, 2013).
- · European agreement on the international carriage of dangerous goods by road, (ADR 2015).
- International Maritime Dangerous Goods Code IMDG including Amendment 36-12 (IMO, 2012).

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.
- · DSD: Dangerous Substances Directive.
- · DPD: Dangerous Preparations Directive.
- · 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.
- · 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.

HISTORIC: Date of compilation: Version: 1 26/11/2015

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.