

Code: EX014S1021C



Date of compilation: 04/05/2015

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

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

SPECIALTY CHALK COLORS PRODUCT IDENTIFIER: Code: EX014S1021C

RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST: 1.2

Intended uses (main technical functions):

Decorative paint.

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:

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: 1.3

MONTANA COLORS, S.L.

Pol. Ind. Plà de les Vives - c/An aïs Nin 6 - E-08295 Sant Vicenç de Castellet (Barcelona)

Phone: +34 93 8332760 - Fax: +34 93 8332761

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

lassification in accordance with Regulation (EC) No. 1272/2008~605/2014 (CLP) DANGER: Flam. Aerosol 1:H222+H229 | Eye Irrit. 2:H319 | STOTSE (narcosis) 3:H336

Danger class	Classification of the mixture	Cat.	Routes of exposure	Targetorgans	Effects
Physicochemical:	Flam. Aerosol 1:H222+H229 Eye Irrit. 2:H319 STOT SE (narcosis) 3:H336	Cat.1 Cat.2 Cat.3	- Eyes Inhalation	- Eyes CNS	- Irritation Narcosis
Human health:					
Environment: Not classified					

Classification in accordance with Directive 1999/45/EC~2006/8/EC (DPD):

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

LABEL ELEMENTS: 22



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

Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P271-P260d Use only outdoors or in a well-ventilated area. Do not breathe aerosol.

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

feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P410+P412

P501a

None.

Hazardous ingredients: Isopropyl alcohol

Dispose of contents/container in a safe way. Supplementary statements:

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: In case of prolonged contact, the skin may become dry.

Other negative environmental effects: # Does not contain substances that fulfil the PBT/vPvB criteria.

< REACH



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:

Not applicable (mixture).

3.2 MIXTURES:

This product is a mixture.

Chemical description:

Aerosol.

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HAZARDOUS INGREDIENTS:

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

30 < 40 % Dimethyl ether

CAS: 115-10-6, EC: 204-065-8 REACH: 01-2119472128-37 Index No. 603-019-00-8 DSD: F+:R12 < ATP12

CLP: Danger: Flam. Gas 1:H220 | Press. Gas.:H280

15 < 20 % Isopropyl alcohol CAS: 67-63-0 , EC: 200-661-7 REACH: 01-2119457

CAS: 67-63-0 , EC: 200-661-7 REACH: 01-2119457558-25 Index No. 603-117-00-0 DSD: F:R11 | Xi:R36 | R67 < ATP30 CLP: Danger: Flam. Liq. 2:H225 | Eye Irrit. 2:H319 | STOT SE (narcosis) 3:H336 < REACH / ATP01

15 < 20 % Ethyl alcohol

CAŚ: 64-17-5 , EC: 200-578-6 REACH: 01-2119457610-43 Index No. 603-002-00-5
DSD: F:R11 < ATP12
CLP: Danger: Flam. Liq. 2:H225 | Eye Irrit. 2:H319 < REACH

Impurities:

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(!)

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 17/12/2014.

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

None

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

None

4.1

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

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

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST-AID MEASURES AND MAIN 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:	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.
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. Keep the patient at rest.

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

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.



6.2

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SECTION 5: FIRE-FIGHTING MEASURES

5.1 **EXTINGUISHING MEDIA**

Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

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

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 dire a contact with this product. Avoid breathing vapours. Keep people without protection in opossition to the wind direction.

ENVIRONMENTAL PRECAUTIONS

Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Avoid use of solvents . Keep the remains in a closed container.

6.4 **REFERENCE TO OTHER SECTIONS:**

For contact information in case of emergency, see section 1.

For information on safe handling, see section 7.

For exposure controls and personal protection measures, see section 8.

For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: 7.1

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

General recommendations:

Avoid any type of leakage or escape.

Recommendations for the prevention of fire and explosion risks:

Pressurised container. Protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Do not smoke.

Flash point

307. °C Autoignition temperature % Volume 25°C Upper/lower flammability or explosive limits

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. Avoid applying the product directly to people, animals, plants or foodstuffs. 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. For more information, see section 10.

Class of store According to current legislation.

Maximum storage period 24. months

Temperature interval min: 5. °C, max: 50. °C (recommended). Incompatible materials

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

Type of packaging:

According to current legislation.

Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:

Lower threshold: 50 tons, Upper threshold: 200 tons

7.3

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

.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 2012	<u>Year</u>	TLV-TWA		TLV-STEL		<u>Observations</u>
		ppm	mg/m3	ppm	mg/m3	
Dimethyl ether		1000.	1920.	-	-	Recommended
Isopropyl alcohol	1996	1000.	1880.	-	-	A4
Ethyl 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 stablished

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 first						
Derived no-effect level, workers: - Systemic effects, acute and chronic: Dimethyl ether Isopropyl alcohol Ethyl alcohol	- (a) 50	94. (c) 00. (c) 50. (c)	DNEL Cutaneo mg/kg bw/d - (a) - (a) s/r (a)	- (c) 888. (c) 343. (c)	DNEL Oral mg/kg bw/d - (a) - (a) - (a)	- (c) - (c) - (c)
Derived no-effect level, workers: - Local effects, acute and chronic: Dimethyl ether Isopropyl alcohol Ethyl alcohol	DNEL Inhalation mg/m3 - (a) - (a) 1900. (a)	- (c) - (c)	DNEL Cutaneo mg/cm2 - (a) - (a) s/r (a)	- (c) - (c) s/r (c)	DNEL Eyes mg/cm2 - (a) - (a) - (a)	- (c) - (c) - (c)
Derived no-effect level, general population: - Systemic effects, acute and chronic: Dimethyl ether Isopropyl alcohol Ethyl alcohol	- (a) 89	71. (c) 9.0 (c) 14. (c)	DNEL Cutaneo mg/kg bw/d - (a) - (a) s/r (a)	- (c) 319. (c) 206. (c)	DNEL Oral mg/kg bw/d - (a) - (a) s/r (a)	- (c) 26.0 (c) 87.0 (c)
Derived no-effect level, general population: - Local effects, acute and chronic: Dimethyl ether Isopropyl alcohol Ethyl alcohol	DNEL Inhalation mg/m3 - (a) - (a) 950. (a)	- (c) - (c) s/r (c)	DNEL Cutaneo mg/cm2 - (a) - (a) s/r (a)	- (c) - (c) s/r (c)	DNEL Eyes mg/cm2 - (a) - (a) - (a)	- (c) - (c) - (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).

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms: - Fresh water, marine water and intermitent release: Dimethyl ether Isopropyl alcohol Ethyl alcohol	PNEC Fresh water	PNEC Marine	PNEC Intermittent
	mg/l	mg/l	mg/l
	0.155	0.0160	1.55
	141.	141.	141.
	0.960	0.790	2.75
- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Dimethyl ether Isopropyl alcohol Ethyl alcohol	PNEC STP	PNEC Sediments	PNEC Sediments
	mg/l	mg/kg dry weight	mg/kg dry weight
	160.	0.681	0.0690
	2251.	552.	552.
	580.	3.60	2.90
Predicted no-effect concentration, terrestrial organisms: - Air, soil and effects for predators and humans: Dimethyl ether Isopropyl alcohol Ethyl alcohol	PNEC Air mg/m3 - - -	PNEC Soil mg/kg dry weight 0.0450 28.0 0.630	PNEC Oral mg/kg bw/d - 160. 720.

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



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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.

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

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding EC marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:	Suitable combined filter mask for gases, vapours and particles (EN14387/EN143). Classe 1: low capacity up to 1000 ppm, Classe 2: medium capacity up to 5000 ppm, Classe 3: high capacity up to 10000 ppm. In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour or oxygen content less than 18% in volume.
Goggles:	Safety goggles 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). There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. The gloves should be immediately replaced when any sign of degradation is noted.
Boots:	No.
Apron:	No.
Clothing:	No.

Thermal hazards:

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

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result. When possible, avoid solvent release to the atmosphere; do not pulverize more than is strictly necessary.

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: 68.4% Weight, VOC (supply): 68.4% Weight, VOC: 37.1% C (expressed as carbon), Molecular weight (average): 49.8, Number C atoms (average): 2.3.



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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

- Relative density

Stability

Decomposition temperature

Viscosity:

· Viscosity (flow time) Volatility:

- Vapour pressure

Solubility(ies) - Solubility in water:

- Solubility in oils and fats:

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:**

- Heat of combustion - Solids

VOC (supply)

- VOC (supply) 630.2 g/l

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

Aerosol.

Characteristic

Not applicable

Not applicable

Not available

Not applicable

Not available

Not miscible

Not applicable

Not available (mixture).

Not applicable (mixture).

0.921 at 20/4°C

-38. °C 3.0 - 21.7 % Volume 25°C 307. °C

5523. Kcal/kg

31.6 % Weight 68.4 % Weight

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: 10.1

Corrosivity to metals: It is not corrosive to metals.

Pyrophorical properties: It is not pyrophoric.

CHEMICAL STABILITY: 10.2

Stable under recommended storage and handling conditions.

10.3 **POSSIBILITY OF HAZARDOUS REACTIONS:**

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

CONDITIONS TO AVOID: 10.4

Heat: Keep away from sources of heat.

Light: Avoid direct contact with sunlight.

Air: Not applicable.

Humidity: Avoid extreme humidity conditions.

Pressure: Not applicable.

Shock: Not applicable.

10.5 **INCOMPATIBLE MATERIALS:**

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

HAZARDOUS DECOMPOSITION PRODUCTS: 10.6

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



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

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

A	CL	JTE	TOX	ICITY:	

Dose and lethal concentrations for individual ingredients:	<u>DL50</u> (OECD 401) mg/kg oral	DL50 (OECD 402)	CL50 (OECD 403)
Dimethyl ether	3 3 3 3	3 3 11 11 11 11	> 100000 Rat
Isopropyl alcohol	5045. Rat	12800. Rabbit	> 72600. Rat
Ethyl alcohol	10470. Rat	> 20000. Rabbit	> 20000. Rat

No observed adverse effect level

Not available

Lowest 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
Inhalation: Not classified	ETA > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).
Skin: Not classified	ETA > 2000 mg/kg	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).
Eyes: Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).
Ingestion: Not classified	ETA > 5000 mg/kg	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).

CORROSION/IRRITATION/SENSITISATION:

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

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Effects	SE/RE	Targetorgans	Cat.	Main effects, acute and/or delayed
Neurological:	SE	CNS	Cat.3	NARCOTIC: May cause drowsiness or dizziness if inhaled.
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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: Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. If swallowed, may cause irritation of the throat, other effects may be the same as described in the exposure to vapours.

Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using

12.1	TOXICITY:			
	Acute toxicity in aquatic environment for individual ingredients : Dimethyl ether Isopropyl alcohol Ethyl alcohol	CL50 (OECD 203) mg/l.96hours 4100. Fishes 9640. Fishes 14200. Fishes	CE50 (OECD 202) mg/l.48hours 4400. Daphnia 13300. Daphnia 5012. Daphnia	CE50 (OECD 201) mg/L72hours > 1000. Algae 275. 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 : Dimethyl ether Isopropyl alcohol Ethyl alcohol	DQO mgO2/g 1041. 2396. ~ 1700.	%DBO5/DQO 5 days 14 days 28 days ~ 1. ~ 3. ~ 5.	Biodegradability Not easy Easy Easy
12.3	BIOACCUMULATIVE POTENTIAL: Not available.			
	Bioaccumulation for individual ingredients: Dimethyl ether Isopropyl alcohol Ethyl alcohol	0.0700 0.0500 -0.310	BCF L/kg 1.7 (calculated) 3.2 (calculated)	Potential Unlikely, low No bioaccumulable No bioaccumulable
.4	MOBILITY IN SOIL: Not available.			
.5	RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006: Does not contain substances that fulfill the PBT/vPvB criteria.			
.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.			

WASTE TREATMENT METHODS: Directive 2008/98/EC: 13.1

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

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

Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of 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. Ensure the container is completely empty before throwing it away.

Procedures for neutralising or destroying the product:

In accordance with local regulations. Do not incinerarate closed containers.



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SECTION 14: TRANSPORT INFORMATION

UN NUMBER: 1950 14.1

UN PROPER SHIPPING NAME: 14.2

AEROSOLS

TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP: 14.3

14.4

Transport by road (ADR 2013) and Transport by rail (RID 2013):

- Class: - Packaging group:

- Classification code: 5F Tunnel restriction code: (D)

- Transport category: 2, max. ADR 1.1.3.6. 333 L

- Limited quantities: LQ2 (see total exemptions ADR 3.4)

2

No.

- Transport document: Consignment paper.

- Instructions in writing: ADR 5.4.3.4

Transport by sea (IMDG 36-12):

Class: 2 - Packaging group: - Emergency Sheet (EmS): F-D,S-U - First Aid Guide (MFAG): 620* - Marine pollutant:

Shipping Bill of lading. - Transport document:

Transport by air (ICAO/IATA 2013):

- Class: 2

- Packaging group:

- Transport document: Air Bill of lading.

Transport by inland waterways (ADN):

Not available.

14.7

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 in a vertical position and sure. Ensure adequate ventilation.

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

Not applicable.

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 material safety data sheet.

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

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

Tactile warning of danger: Not applicable (the classification criteria are not met).

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

egislación específica sobre aeroso

It is applicable the Directive 75/324/EEC ~2013/10/EU, relating to aerosol dispensers and the Directive 87/404/EEC, concerning simple preasure packages.

OTHER REGULATIONS:

Not available

15.2 CHEMICAL SAFETY ASSESSMENT:

Not applicable (mixture).

MATERIAL SAFETY DATA SHEET (REACH)

In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010



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SECTION 16: OTHER INFORMATION

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

Hazard statements according the Regulation (EC) No. 1272/2008~790/2009 (CLP), Annex III:

H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H280 Contains gas under pressure: may explode if heated. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

R-phrases according the Directive 67/548/EEC~2001/59/EC (DSD), Annex III:

R11 Highly flammable. R12 Extremely flammable. R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness.

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, 2012).
- European agreement on the international carriage of dangerous goods by road, (ADR 2013).
- 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 material safety data sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- DSD: Dangerous Substances Directive.
- DPD: Dangerous Preparations Directive.
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- CLP: European 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: 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 Organization.

MATERIAL SAFETY DATA SHEET REGULATIONS:

Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.

HISTORY: Date of compilation: 04/05/2015 Version: 1

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties