

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY



NAME OF THE PRODUCT	SEALPLAST brushable sealer grey 1 kg
CODE	070010
DISTRIBUTOR	BOSSAUTO INNOVA, S.A.
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2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

A. Regulation nº1272/2008 (CLP)

DANGER: Flam. Liq. 2:H225 | Skin Irrit. 2:H315 | Eye Irrit. 2:H319 | Repr. 2:H361id | STOT SE (narcosis) 3:H336 | STOT RE 2:H373iJ | 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	Cat.2 Cat.2 Cat.2	- Skin Eyes	- Skin Eyes	- Irritation Irritation
Human health: 	Repr. 2:H361i d STOT SE (narcosis) 3:H336 STOT RE 2:H373i J EUH066	Cat.2 Cat.2 Cat.3 Cat.2 -	Inhalation Inhalation Inhalation Skin	Reproductive system CNS CNS Skin	Fetus Narcosis Damage Dryness, Cracking
Environment: Not classified					

B. According to Directives 67/548/ECC and 1999/45/EC

F: R11 | Repr.Cat.3:R63 | Xn: R48/20 | Xi: R36/38 | R66-R67

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

2.2. Label elements

A. CLP Regulation (EC) n°1272/2008

- **Pictograms**



- **Signal word**

DANGER

This product is labelled with the signal word DANGER in accordance with Regulation (EC) No. 1272/2008~286/2011 (CLP).

- **Hazard statements**

H225 Highly flammable liquid and vapour.

H361id Suspected of damage the unborn child if inhaled.

H373iJ May cause damage to central nervous system through prolonged or repeated exposure if inhaled.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

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

P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical powder, carbon dioxide, AFFF to extinguish.

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

P280F Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection.

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

P501b Dispose of contents/container to hazardous or special waste collection point.

- **Supplementary statements**

None.

- **Hazardous ingredients**

Toluene

Ethyl acetate

Xylene (mixture of isomers)

Ethylbenzene

2.3. Other hazards

Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:

- Other physicochemical hazards: Vapours may form with air a mixture potentially flammable or explosive.
- Other adverse human health effects: No other relevant adverse effects are known.
- Other negative environmental effects: Does not contain substances that fulfill the PBT/vPvB criteria.

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.

A. Hazardous ingredients

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

10 < 15 % 	Styrene-butadiene copolymer CAS: 9003-55-8, List No. 618-370-2 DSD: Xi:R36 CLP: Warning: Eye Irrit. 2:H319 Autoclassified
10 < 15 % 	Toluene CAS: 108-88-3, EC: 203-625-9, REACH: 01-2119471310-51, Index No. 601-021-00-3 DSD: F:R11 Repr.Cat.3:R63 Xn:R48/20-65 Xi:R38 R67 < ATP30 CLP: Danger: Flam. Liq. 2:H225 Skin Irrit. 2:H315 Repr. 2:H361i d STOT SE (narcosis) 3:H336 STOT RE 2:H373iJ Asp. Tox. 1:H304 < REACH / ATP01
5 < 10 % 	Ethyl acetate CAS: 141-78-6, EC: 205-500-4, REACH: 01-2119475103-46, Index No. 607-022-00-5 DSD: F:R11 Xi:R36 R66-R67 < ATP30 CLP: Danger: Flam. Liq. 2:H225 Eye Irrit. 2:H319 STOT SE (narcosis) 3:H336 EUH066 < REACH / ATP01
5 < 10 % 	Xylene (mixture of isomers) CAS: 1330-20-7, EC: 215-535-7, REACH: 01-2119488216-32, Index No. 601-022-00-9 DSD: R10 Xn:R20/21 Xi:R38 < ATP25 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 (irri t.) 3:H335 STOT RE 2:H373i As p. Tox. 1:H304 < REACH
1 < 2 % 	Ethylbenzene CAS: 100-41-4, EC: 202-849-4, Index No. 601-023-00-4 DSD: F:R11 Xn:R20 < CLP00 CLP: Danger: Flam. Liq. 2:H225 Acute Tox. (inh.) 4:H332 STOT RE 2:H373iE Asp. Tox. 1:H304 < CLP00

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

Reference to other sections: For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

B. Substances of very high concern (SVHC)

List updated by ECHA on 19/08/2014.

Substances SVHC subject to authorization, included in Annex XIV of Regulation (EC) n° 1907/2006: None.




Substances SVHC candidate to be included in Annex XIV of Regulation (EC) n° 1907/2006: None.

4. FIRST AID MEASURES

4.1. 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.

4.2.

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 immediate medical attention. Do not induce vomiting due to the risk of aspiration. 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.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

In case of fire, use water spray alcohol-resistant foam, dry chemical powder, carbon dioxide, AFFF. 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

Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3. Advice for firefighting

A. 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.

B. 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.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. Keep people without protection in opposition to the wind direction.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

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

A. General recommendations

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

B. 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. If this product is used in an industrial installation, the zones with risk of explosion should be marked. Use instruments, systems and protective equipment adequate to the classification of zones, according to the health and safety at work laws, in accordance with Directive 94/9/EC and 99/92/EC. Electrical equipment should be protected to the appropriate standard. No tools with a potential for sparks should be used. Elaborate the document 'Protection against explosions'.

Flash point: 4 °C

Autoignition temperature: 437 °C

Upper/lower flammability or explosive limits: 1.5 - 8.7 % Volume 25°C

C. Recommendations for the prevention of toxicological risks

It is advisable pregnant woman not be employed in any process in which this product is used. 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.

D. 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 incompatibilities

Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.

Class of store	According to current legislations.
Maximum storage period	12 months
Temperature interval	min. 5°C, max. 32°C (recommended).
Incompatible materials	Keep away from oxidizing 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: 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

A. Occupational exposure limit values (TLV)

AGCIH 2011	Year	TLV-TWA		TLV-STEL		Observations
		ppm	mg/m ³	ppm	mg/m ³	
Toluene	2007	20	75	-	-	A4
Ethyl acetate	1996	400	1440	-	-	
Xylene (mixture of isomers)	1996	100	434	150	651	A4
Ethylbenzene	2002	100	434	125	543	A3

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

A3 - Carcinogenic in animals.

A4 - Non classified as carcinogenic in humans.

B. Biological limit values

Not established.

C. 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 an occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

<u>Derived no-effect level, workers:</u> - Systemic effects, acute and chronic:	<u>DNEL Inhalation</u> mg/m ³	<u>DNEL Cutaneous</u> mg/kg bw/d	<u>DNEL Oral</u> mg/kg bw/d
Toluene	384 (a) 192 (c)	s/r (a) 384 (c)	- (a) - (c)
Ethyl acetate	1468(a) 734 (c)	s/r (a) 63.0 (c)	- (a) - (c)
Xylene (mixture isomers)	289 (a) 77.0(c)	s/r (a) 180 (c)	- (a) - (c)
<u>Derived no-effect level, workers:</u> - Local effects, acute and chronic:	<u>DNEL Inhalation</u> mg/m ³	<u>DNEL Cutaneous</u> mg/cm ²	<u>DNEL Eyes</u> mg/cm ²
Toluene	384 (a) 192 (c)	s/r (a) s/r (c)	- (a) - (c)
Ethyl acetate	1468(a) 734 (c)	s/r (a) s/r (c)	b/r (a) - (c)
Xylene (mixture isomers)	289 (a) s/r (c)	s/r (a) s/r (c)	- (a) - (c)

D. Derived no-effect level, general population:

Not applicable (product for professional or industrial use).

(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).

E. Predicted no-effect concentration (PNEC)

<u>Predicted no-effect concentration, aquatic organisms:</u> - Fresh water, marine water and intermittent release:	<u>PNEC Fresh water</u> mg/l	<u>PNEC Marine</u> mg/l	<u>PNEC Intermittent</u> mg/l
Toluene		0.680	0.680
Ethyl acetate	0.680	0.0260	1.65
Xylene (mixture isomers)	0.260 0.327	0.327	0.327
- Wastewater treatment plants (STP) and sediments in fresh and	<u>PNEC STP</u> mg/l	<u>PNEC Sediments</u> mg/kg dry	<u>PNEC Sediments</u> mg/kg dry weight

marine water: Toluene Ethyl acetate Xylene (mixture isomers)	13.6 650 6.58	weight 16.4 1.25 12.5	16.4 0.125 12.5
<u>Predicted no-effect concentration, terrestrial organisms:</u> - Air, soil and effects for predators and humans: Toluene Ethyl acetate Xylene (mixture isomers)	<u>PNEC Air</u> mg/m ³ - - -	<u>PNEC Soil</u> mg/kg dry weight 2.89 0.240 2.31	<u>PNEC Oral</u> mg/kg bw/d - 200 -

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

8.2. Exposure controls

A. 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, sources or eyewash bottles with clean water class to the working area.

- **Protection of hands and skin**

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

B. 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.

- **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.

- **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). The breakthrough time of the selected glove material should be in accordance with the pretended period of use. When it can be a repeated or prolonged contact, it is recommended to use gloves with a protection level 5 or higher, with a breakthrough time >240 min. When you only expects a short contact, it is recommended to use gloves with a protection level 2 or higher, with a breakthrough time >30 min. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.

- **Boots**

No.

- **Apron**

No.

- **Clothing**

Advisable.

- **Thermal hazards**

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

C. Environmental exposure controls

Avoid any spillage in the environment of the product, wastes, packages or spraybooth sewages. Avoid any release into the atmosphere above the legal limits allowed.

- **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 (product ready for use*)**

It is applicable the Directive 2004/42/EC, on the limitation of emissions of volatile compounds due to the use of organic solvents: VEHICLE REFINISHING PRODUCTS (defined in the Directive 2004/42/EC, Annex I .2): Emission subcategory E) Special finishing. VOC (product ready for use*): 302.1 g/l* (VOC max. 840. g/l* starting from 01.01.2007).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Grey
Odour	Characteristic
Odour threshold	Not available (mixture)
pH value	Not applicable
Melting point	Not applicable (mixture)
Initial boiling point	77.1 °C at 760 mmHg
Vapour density	Not available
Relative density	1.1 at 20/4°C Relative water
Decomposition temperature	350. °C
Viscosity	-
Evaporation rate	Not available
Vapour pressure	Not available
Solubility(ies)	
Solubility in water	Not miscible
Solubility in oils and fats	Not available
Flash point	4. °C
Upper/lower flammability or explosive limits	1.5 - 8.7 % Volume 25°C
Autoignition temperature	437 °C
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

Solids: 72.5 % Weight

VOC (supply): 27.5 % Weight

VOC (supply): 302.1 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.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Corrosively 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.

10.3. Possibility of hazardous reactions

Possible dangerous reaction with oxidizing agents, acids, alkalis, amines, peroxides.

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.

10.5. Incompatible materials

Keep away from oxidizing 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.

11. TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~286/2011 (CLP).

11.1. Information on toxicological effects

A. Acute toxicity

Dose and lethal concentrations for individual ingredients:	DL50 (OECD 401) mg/kg oral	DL50 (OECD 402) mg/kg cutaneous	CL50 (OECD 403) mg/m ³ 4h inhalation
Toluene	5580. Rat	12124. Rabbit	> 28100. Rat
Ethyl acetate	5620. Rat	18000. Rabbit	> 44000. Rat
Xylene (mixture isomers)	4300. Rat	1700. Rabbit	> 22080. Rat
Ethylbenzene	3500. Rat	15400. Rabbit	> 17400. Rat

No observed adverse effect level: Not available.





Lowest observed adverse effect level: Not available.

B. Information on likely routes of exposure: Acute toxicity

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed
<u>Inhalation:</u> Not classified	ETA>20000mg/m ³	-	Not classified as a product with acute toxicity if in data, the classification criteria are not met).
<u>Skin:</u> Not classified	ETA>2000mg/kg	-	Not classified as a product with acute toxicity in co available data, the classification criteria are not met
<u>Eyes:</u>	Not available	-	Not classified as a product with acute toxicity by ey

Not classified			
Ingestion: Not classified	ETA>5000mg/kg	-	Not classified as a product with acute toxicity available data the classification criteria are not met






C. Corrosion/irritation/sensitization

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Respiratory corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).
<u>Skin corrosion/irritation:</u> 	Skin 	Cat. 2	IRRITANT: Causes skin irritation.
<u>Serious eye damage/irritation:</u> 	Eyes 	Cat. 2	IRRITANT: Causes serious eye irritation.
<u>Respiratory sensitization:</u> Not classified	-	-	Not classified as a product sensitizing by inhalation (based on available data, the classification criteria are not met).
<u>Skin sensitization:</u> Not classified	-	-	Not classified as a product sensitizing by skin contact (based on available data, the classification criteria are not met).

D. Aspiration hazard

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

E. Specific target organs toxicity (STOT): Single exposure (SE) and/or repeated exposure (RE)

Effects SE/RE	Target organs	Cat.	Main effects, acute and/or delayed
<u>Cutaneous:</u> RE	Skin 	-	Defeating: Repeated exposure may cause skin dryness or cracking.
<u>Neurological:</u> SE 	CNS 	Cat. 3	Narcotic: May cause drowsiness or dizziness if inhaled.
<u>Neurological:</u> RE 	CNS 	Cat. 2	Neurotoxic: May cause damage to central nervous system through prolonged or repeated exposure if inhaled.

F. CMR effects

- **Carcinogenic effects**

Is not considered as a carcinogenic product.

- **Genotoxicity**

Is not considered as a mutagenic product.

- **Toxicity for reproduction**

This preparation contains the following ingredients which can be toxic for human reproduction: Toluene (cat.2).

- **Effects via lactation**

Not classified as a hazardous product for children breast-fed.

G. 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. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure vapours. Irritating to skin.

- **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.

H. Interactive effects

Not available.

I. Information about toxicokinetics, metabolism and distribution

Dermal absorption: Not available.

Basic toxicokinetics: Not available.

J. Additional information

Not available.

12. ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~286/2011 (CLP).

12.1. Toxicity

<u>Acute toxicity in aquatic environmental</u> for individual ingredients:	<u>CL50 (OECD 203)</u> mg/l 96 hours	<u>CE50 (OECD 202)</u> mg/l 48 hours	<u>CE50 (OECD 201)</u> mg/l 72 hours
Toluene	5.5 Fishes	3.8 Daphnia	134. Algae
Ethyl acetate	212. Fishes	164. Daphnia	> 100. Algae
Xylene (mixture isomers)	14. Fishes	16. Daphnia	> 10. Algae
Ethylbenzene	12. Fishes	1.8 Daphnia	33. Algae
<u>No observed effect concentration</u>	<u>NOEC (OECD 210)</u> mg/l 28 days	<u>NOEC (OECD 211)</u> mg/l 21 days	
Toluene	1.4 Fishes	< 1. Daphnia	
<u>Lowest observed effect concentration</u>	<u>LOEC (OECD 210)</u> mg/l 28 days	<u>LOEC (OECD 211)</u> mg/l 21 days	
Toluene	2.8 Fishes	-	

12.2. Persistence and degradability

Not available.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

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.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Directive 2008/98/EC: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

A. Disposal of empty containers

Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC: Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

B. Procedures for neutralizing or destroying the product

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

14. TRANSPORT INFORMATION

14.1. UN Number

1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es) and packing group

14.4.

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

(Special provision 640E)

FP<23°C, viscous according 2.2.3.1.4. <450 L (ADR) or 2.3.2.3. <30 L (IMDG) or 3.3.3.1.1. <30 L (IATA), VP<110 kPa50°C.

Class: 3
Packaging group: III
Classification code: F1
Tunnel restriction code: (D/E)
Transport category: 3, max. ADR 1.1.3.6. 1000 L
Limited quantities: 5 L (see total exemptions ADR 3.4)
Transport document: Consignment paper.
Instructions in writing: ADR 5.4.3.4



B. Transport by sea (IMDG 35-10)

Class: 3
Packaging group: III
Emergency Sheet (EmS): F-E,S_E
First Aid Guide (MFAG): 310,313
Marine pollutant: Yes.
Transport document: Shipping Bill of lading.



C. Transport by air (ICAO/IATA 2012):

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



D. Transport by inland waterways (ADN)

Not available.

14.5. Environment 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.

14.7. Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not applicable.

15. REGULATORY INFORMATION

15.1. EU safety, health and environmental regulations/legislation specific

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).
VOC information on the label: Contains VOC max.250. g/l - The limit value 2004/42/CE-IIB cat. E) for the product ready for use is VOC max. 840. g/l.

A. Other regulations

Not available

15.2. Chemical safety assessment

Not applicable (mixture).

16. OTHER INFORMATION

16.1. Text of the phrases and notes referenced in section 2 and/or 3

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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
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.
EUH066 Repeated exposure may cause skin dryness or cracking.
H373i May cause damage to organs through prolonged or repeated exposure if inhaled.
H373iE May cause damage to hearing organs through prolonged or repeated exposure if inhaled.
H361id Suspected of damage the unborn child if inhaled.
H373iJ May cause damage to central nervous system through prolonged or repeated exposure if inhaled.

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

R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R36 Irritating to eyes.
R38 Irritating to skin.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R20/21 Harmful by inhalation and in contact with skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

C. 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.

D. 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/>
European Chemicals Bureau: Existing Chemicals, <http://esis.jrc.ec.europa.eu/>
Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
Threshold Limit Values, (AGCIH, 2011).
European agreement on the international carriage of dangerous goods by road, (ADR 2013).
International Maritime Dangerous Goods Code IMDG including Amendment 35-10 (IMO, 2010).

E. 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 regulation on Classification, Labelling and 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 dangerous goods by road.

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

IMDG: International Maritime code for Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

F. 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.

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.