

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

FPM 203 lustre blue

Version: 6

Revision date: 30/08/2018



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

1.1 Product identifier.

Product Name: **FPM 203 lustre blue**

1.2 Relevant identified uses of the mixture and uses advised against.

Ceramic use.

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **GLAZURA, S.R.O.**
Address: Roudnická 122
City: 413 01 Dobruška
Telephone: +420 416 809 711
Fax: +420 416 809 814, +420 416 809 733
E-mail: info@glazura.cz

1.4 Emergency telephone number: (Available 24 hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

Aquatic Chronic 2 : Toxic to aquatic life with long lasting effects.

Eye Irrit. 2 : Causes serious eye irritation.

Flam. Liq. 3 : Flammable liquid and vapour.

Skin Irrit. 2 : Causes skin irritation.

Skin Sens. 1 : May cause an allergic skin reaction.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008: Pictograms:



Signal Word:

Warning

H statements:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

P statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P321	Specific treatment (see ... on this label).

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P370+P378 In case of fire: Use... to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to ...

EUH statements:

EUH208 Contains Rosemary oil N. Afr.. May produce an allergic reaction.

Contains:

Dipentene Rosin
delta-3-Carene
Titanium resinate
Eucalyptus globulus oil

2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
Index No: 650-015-00-7 CAS No: 8050-09-7 EC No: 232-475-7 Registration No: 012119480418-32-XXXX	[1] Rosin	>=25% <50%	Skin Sens. 1, H317	-
CAS No: 67874-71-9 EC No: 267-499-7	BISMUTH TRIS (2-ETHYLHEXANOATE)	>=10% <25%	Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - STOT SE 3, H335	-
CAS No: 68956-56-9 EC No: 273-309-3	Hydrocarbons, terpene processing by-products	>=10% <25%	Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-
CAS No: 99-86-5 EC No: 202-795-1	alpha-Terpinene	>=5% <10%	Acute Tox. 4, H302 - Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226	-

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Index No: 601029007 CAS No: 138-86-3 EC No: 205-341-0	Dipentene	>=2.5% <5%	Aquatic Acute 1, H400 (M=1) - Aquatic Chronic 1, H410 (M=1) - Flam. Liq. 1, H224 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
CAS No: 586-62-9 EC No: 209-578-0 Registration No: 012119982325-32-xxxx	p-mentha-1,4(8)-diene	>=2.5% <5%	Asp. Tox. 1, H304 - Eye Irrit. 2, H319 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-
CAS No: 13466-78-9 EC No: 236-719-3 Registration No: 012119520252-55-XXXX	[1] delta-3-Carene	>=2.5% <5%	Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
CAS No: 2170190-22-2 EC No: 945-707-3 Registration No: 022120703916-53-0000	Titanium resinate	>=2.5% <5%	Eye Irrit. 2, H319 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
CAS No: 8052-42-4 EC No: 232-490-9 Registration No: 012119480172-44-XXXX	[1] Asphalt	>=2.5% <5%	-	-
CAS No: 84625-32-1 EC No: 283-406-2	Eucalyptus globulus oil	>=2.5% <5%	Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
CAS No: 13466-78-9 EC No: 236-719-3 Registration No: 012119520252-55-XXXX	[1] 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	>=1% <2.5%	Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-
CAS No: 99-87-6 EC No: 202-796-7 Registration No: 012119881770-31-XXXX	p-Cymene	>=1% <2.5%	Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226	-

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CAS No: 8000-25-7 EC No: 283-291-9	Rosemary oil N. Afr.	>=0.1% <1%	Acute Tox. 4, H332 - Aquatic Acute 1, H400 - Aquatic Chronic 1, H410 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Sens. 1, H317 - STOT SE 2, H371	-
Index No: 606-010-00-7 CAS No: 108-94-1 EC No: 203-631-1 Registration No: 012119453616-35-XXXX	[1] cyclohexanone	>=0.1% <1%	Acute Tox. 4 *, H332 - Flam. Liq. 3, H226	-
Index No: 601-025-00-5 CAS No: 108-67-8 EC No: 203-604-4 Registration No: 012119463878-19-XXXX	[1] 1,3,5-trimethylbenzene,mesitylene	>=0.1% <1%	Aquatic Chronic 2, H411 - Flam. Liq. 3, H226 - STOT SE 3, H335	STOT SE 3, H335: C ≥ 25 %
CAS No: 76-22-2 EC No: 200-945-0 Registration No: 012119966156-31-XXXX	[1] Camphor	< 0.1%	Acute Tox. 4, H332 - Flam. Sol. 2, H228 - STOT SE 2, H371	-

(*)The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a Community workplace exposure limit (see section 8.1).

SECTION 4: FIRST AID MEASURES.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed.

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Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Can cause allergic reactions.

It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

SECTION 5: FIREFIGHTING MEASURES.

Flammable product, the necessary prevention measures should be taken in order to avoid risks, In case of fire, the following measures are recommended:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- Flammable vapors or gases.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.

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For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use antistatic footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited. Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

Code	Description	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Chronic 2	200	500

7.3 Specific end use(s).

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
Rosin	8050-09-7	United Kingdom [1]	Eight hours		0,05
			Short term		0,15
delta-3-Carene	13466-78-9	Koninkrijk België/Royaume de Belgique/Königreich Belgien [2]	Eight hours	20	
			Short term		
Asphalt	8052-42-4	Koninkrijk België/Royaume de Belgique/Königreich Belgien [2]	Eight hours		5
			Short term		

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		United Kingdom [1]	Eight hours		5
			Short term		10
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	13466-78-9	Koninkrijk België/Royaume de Belgique/Königreich Belgien [2]	Eight hours	20	
			Short term		
cyclohexanone	108-94-1	Koninkrijk België/Royaume de Belgique/Königreich Belgien [2]	Eight hours	10	40,8
			Short term	20	81,6
		European Union [3]	Eight hours	10 (skin)	40,8 (skin)
			Short term	20 (skin)	81,6 (skin)
		United Kingdom [1]	Eight hours	10	41
			Short term	20	82
		United States [4] (Cal/OSHA)	Eight hours	25	
			Short term		
United States [5] (NIOSH)	Eight hours	25			
	Short term				
United States [6] (OSHA)	Eight hours	50	200		
	Short term				
1,3,5-trimethylbenzene, mesitylene	108-67-8	Koninkrijk België/Royaume de Belgique/Königreich Belgien [2]	Eight hours	20	100
			Short term		
		European Union [3]	Eight hours	20	100
			Short term		
Camphor	76-22-2	Koninkrijk België/Royaume de Belgique/Königreich Belgien [2]	Eight hours	2	12
			Short term	3	19
		United States [4] (Cal/OSHA)	Eight hours		2
			Short term		
		United States [5] (NIOSH)	Eight hours		2
			Short term		
		United States [6] (OSHA)	Eight hours		2
			Short term		

[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

[2] According "Valeurs Limites d'Exposition Professionnelle" (VLEP) or "Grenswaarden voor Beroepsmatige Blootstelling" (GWBB) list adopted by Belgian Ministry of Employment and Labour.

[3] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[4] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[5] National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.

[6] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs). The product does NOT contain substances with Biological Limit Values. Concentration levels DNEL/DMEL:

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Name	DNEL/DMEL	Type	Value
Rosin CAS No: 80 0 0 7 EC No: 232 47 7	DNEL (Wor ers)	Inhalation, Long term, Systemic effects	176 (mg/m)
delta 3 Carene CAS No: 13466 78 EC No: 236 71 3	DNEL (Wor ers)	Inhalation, Long term, Systemic effects	, 8 (mg/m)
Asphalt CAS No: 80 2 42 4 EC No: 232 4 0	DNEL (Wor ers)	Inhalation, Long term, Local effects	2, (mg/m)
3,7,7 trimethylbicyclo 4.1.0 hept 3 ene CAS No: 13466 78 EC No: 236 71 3	DNEL (Wor ers)	Inhalation, Long term, Systemic effects	, 8 (mg/m)
cyclohexanone CAS No: 108 4 1 EC No: 203 631 1	DNEL (Wor ers)	Inhalation, Long term, Local effects	40 (mg/m)
	DNEL (General population)	Inhalation, Long term, Local effects	20 (mg/m)
	DNEL (Wor ers)	Inhalation, Long term, Systemic effects	40 (mg/m)
	DNEL (General population)	Inhalation, Long term, Systemic effects	10 (mg/m)
	DNEL (Wor ers)	Inhalation, Acute, Systemic effects	80 (mg/m)
	DNEL (General population)	Inhalation, Acute, Systemic effects	20 (mg/m)
	DNEL (Wor ers)	Inhalation, Acute, Local effects	80 (mg/m)
	DNEL (General population)	Inhalation, Acute, Local effects	40 (mg/m)
	DNEL (Wor ers)	Dermal, Long term, Systemic effects	4 (mg/ g bw/day)
	DNEL (General population)	Dermal, Long term, Systemic effects	1 (mg/ g bw/day)
	DNEL (Wor ers)	Dermal, Acute, Systemic effects	4 (mg/ g bw/day)
	DNEL (General population)	Dermal, Acute, Systemic effects	1 (mg/ g bw/day)
	DNEL (General population)	Oral, Long term and acute, Systemic effects	1, (mg/ g bw/day)
1,3, trimethylben ene,mesitylene CAS No: 108 67 8 EC No: 203 604 4	DNEL (Wor ers)	Inhalation, Long term, Local effects	100 (mg/m)
	DNEL (Wor ers)	Inhalation, Long term, Systemic effects	100 (mg/m)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low ris , that ris should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
cyclohexanone CAS No: 108 4 1 EC No: 203 631 1	Fresh water	0,033 (mg/l)
	Agua de mar	0,003 (mg/l)
	STP	10 (mg/l)
	Sedimento agua dulce	0,168 (mg/ g)

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	Sedimento agua de mar	0,017 (mg/kg)
	Soil	0,014 (mg/kg)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration: 100 %

Uses: Ceramic use.

Breathing protection:

PPE: Filter mask for protection against gases and particles (A-P).

Category I, II or III should be chosen depending on the use limit value. The mask

Characteristics: must be comfortable and tight to the face.

CEN standards: EN 149

Maintenance: expiration valves. Avoid exposure to high temperatures when not used. Before use, check the integrity of inspiration and

Observations: Use when exceeding TLV for one or more substances contained in the mixture. Be sure that the equipment is efficient.

Hand protection:

PPE: Protective gloves against chemicals. Characteristics:

«CE» marking, category III.

CEN standards: EN 374-1, En 374-2, EN 374-3, EN 420

Maintenance: Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible.

Observations: Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives. Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight.

Always use with clean, dry hands.

Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480	Material thickness (mm):	0,35
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Eye protection:

PPE: Protective goggles against splashes and particles. Characteristics:

CEN standards:

Maintenance:

Observations: Under normal and reasonably foreseeable conditions, eye protection is not required. However, protective goggles are recommended when handling the product to avoid accidental splashing of liquids.

Skin protection:

If the product is handled correctly, no individual protection equipment is necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour and colour

Colour: N.A./N.A. Odour: N.A./N.A.

Odour threshold: N.A./N.A.

pH: N.A./N.A.

Melting point: N.A./N.A.

Boiling Point: 193 °C

Flash point: 35 °C

Evaporation rate: N.A./N.A.

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Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: 1,066 Vapour density:N.A./N.A. Relative density:0,993
Solubility:N.A./N.A.
Liposolubility: N.A./N.A.
Hydrosolubility: N.A./N.A.
Partition coefficient (n-octanol/water): N.A./N.A.
Auto-ignition temperature: N.A./N.A.
Decomposition temperature: N.A./N.A.
Viscosity: N.A./N.A.
Explosive properties: N.A./N.A.
Oxidizing properties: N.A./N.A.
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information. Pour

point: N.A./N.A.

Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

If the storage conditions are satisfied, does not produce dangerous reactions.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

Flammable liquid and vapour.

10.4 Conditions to avoid.

Avoid the following conditions:

- High temperature.
- Static discharge.
- Contact with incompatible materials.
- Avoid temperatures near or above the flash point. Do not heat closed containers. Avoid direct sunlight and heat, as these may cause a risk of fire.

10.5 Incompatible materials. Avoid

the following materials:

- Explosives materials.
- Toxic materials.
- Oxidizing materials.

10.6 Hazardous decomposition products.

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin. Splatters in the eyes can cause irritation and reversible damage.

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Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
Rosin CAS No: 8050-09-7 EC No: 232-475-7	Oral	DL50	Rat	2800 mg/Kg
	Dermal			
	Inhalation			
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene CAS No: 13466-78-9 EC No: 236-719-3	Oral	LD50	Rat	4800 mg/kg [1]
		LD50	Rat	4800 mg/kg [2]
				[1] Food and Cosmetics Toxicology. Vol. 11, Pg. 1053, 1973 [2] Food and Cosmetics Toxicology. Vol. 11, Pg. 1053, 1973
	Dermal			
	Inhalation			
cyclohexanone CAS No: 108-94-1 EC No: 203-631-1	Oral	LD50	Rat	800 mg/kg [1]
				[1] American Industrial Hygiene Association Journal. Vol. 30, Pg. 470, 1969
	Dermal			
	Inhalation	LC50	Rat	11.8 mg/l/4 h [1]
				[1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 18, 1974
1,3,5-trimethylbenzene,mesitylene CAS No: 108-67-8 EC No: 203-604-4	Oral			
	Dermal			
	Inhalation	LC50	Rat	24 mg/l/4 h [1]
				[1] Gigena i Sanitariya. For English translation, see HYSAAV. Vol. 44(5), Pg. 15, 1979

a) acute toxicity;

Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Oral) = 6.343 mg/kg

b) skin corrosion/irritation; Product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation; Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation; Product classified:

Skin sensitiser, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

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Not conclusive data for classification.

g) reproductive toxicity;
Not conclusive data for classification.

h) STOT-single exposure;
Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard;
Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
cyclohexanone CAS No: 108-94-1 EC No: 203-631-1	Fish	LC50	Pimephales promelas	572-732 mg/l (96 h) [1] [1] Test method of the U.S. EPA Committee on Methods for Toxicity (1975)
	Aquatic invertebrates	EC50	Daphnia magna	>100 mg/l (48h) [1] [1] OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
	Aquatic plants	ECr50	Desmodesmus subspicatus	>100 mg/l (72h) [1] [1] OECD Guideline 201 (Alga, Growth Inhibition Test)
1,3,5-trimethylbenzene,mesitylene CAS No: 108-67-8 EC No: 203-604-4	Fish	LC50	Fish	12,5 mg/l (96 h) [1] [1] Brenniman, G., R. Hartung, and W.J. Weber Jr. 1976. A Continuous Flow Bioassay Method to Evaluate the Effects of Outboard Motor Exhausts and Selected Aromatic Toxicants on Fish. Water Res. 10(2):165-169
	Aquatic invertebrates	LC50	Crustacean	13 mg/l (48 h) [1] [1] Caldwell, R.S., E.M. Caldarone, and M.H. Mallon 1977. Effects of a Seawater-Soluble Fraction of Cook Inlet Crude Oil and Its Major Aromatic Components on Larval Stages of the Dungeness Crab, Cancer magister Dana. In: D.A.Wolfe (Ed.)
	Aquatic plants			

12.2 Persistence and degradability.

There is no information available on the degradability of the substances present.

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No information is available regarding the degradability of the substances present. No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
delta-3-Carene N. CAS: 13466-78-9 EC No: 236-719-3	4,38	-	-	High
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene N. CAS: 13466-78-9 EC No: 236-719-3	4,38	-	-	High
p-Cymene N. CAS: 99-87-6 EC No: 202-796-7	4,1	-	-	High
cyclohexanone N. CAS: 108-94-1 EC No: 203-631-1	0,81	-	-	Very low
1,3,5-trimethylbenzene, mesitylene N. CAS: 108-67-8 EC No: 203-604-4	3,42	-	-	Moderate
Camphor N. CAS: 76-22-2 EC No: 200-945-0	2,34	-	-	Low

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

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Transport following ADR rules for road transport RID rules for rail a ADN for inner ater a s IMDG for sea and ICAO/IATA for air transport.

Land: Transport b road: ADR Transport b rail: RID.

Transport documentation: Consignment note and ritten instructions

Sea: Transport b ship: IMDG. Transport documentation: ill of lading Air: Transport b plane: ICAO/IATA.

Transport document: Air a bill.

14.1 UN number.

N No: N1263

14.2 UN proper shipping name.

Description:

ADR: N 1263 PAINT RE ATED MATERIA 3 PG III (D/E)

IMDG: N 1263 PAINT RE ATED MATERIA (A PHA-TERPINENE) 3 PG III MARINE PO TANT

ICAO/IATA: N 1263 PAINT RE ATED MATERIA 3 PG III

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Pac ing group: III

14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

14.6 Special precautions for user.

abels: 3



Hazard number: 30

ADR : IMDG

:

ICAO : 10

Provisions concerning carriage in bul ADR: Not authorized carriage in bul in accordance ith ADR.

Transport b ship FEm Emergenc sheets (F Fire S - Spills): F-E S-E Proceed in accordance ith point 6.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code. The product is not transported in bul .

SECTION 15: REGULATORY INFORMATION.

15.1 Safety, health and environmental regulations/legislation specific for the mixture.

The product is not affected b the Regulation (EC) No 100 /200 of the European Parliament and of the Council of 16 September 200 on substances that deplete the ozone la er.

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Volatile organic compound (VOC)

VOC content (p/p): 12.66

VOC content: 12.71 g/l

Product classification according to Annex I of Directive 2012/18/E (SEVESO III): E2

The product is not affected by Regulation (E) No 28/2012 concerning the marketing available on the market and use of biocidal products.

The product is not affected by the procedure established by Regulation (E) No 6 /2012 concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H22	Extremely flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H30	May be fatal if swallowed and enters air passages.
H31	Causes skin irritation.
H317	May cause an allergic skin reaction.
H31	Causes serious eye irritation.
H332	Harmful if inhaled.
H33	May cause respiratory irritation.
H371	May cause damage to organs.
H 00	Very toxic to aquatic life.
H 10	Very toxic to aquatic life with long lasting effects.
H 11	Toxic to aquatic life with long lasting effects.

Classification codes:

Acute Tox. : Acute toxicity (Inhalation) Category

Acute Tox. : Acute toxicity (Oral) Category

Aquatic Acute 1 : Acute toxicity to the aquatic environment Category 1

Aquatic Chronic 1 : Chronic effect to the aquatic environment Category 1

Aquatic Chronic 2 : Chronic effect to the aquatic environment Category 2

Asp. Tox. 1 : Aspiration toxicity Category 1

Eye Irrit. 2 : Eye irritation Category 2

Flam. liq. 1 : Flammable liquid Category 1

Flam. liq. 3 : Flammable liquid Category 3

Flam. Sol. 2 : Flammable solid Category 2

S in Irrit. 2 : Skin irritant Category 2

S in Sens. 1 : Skin sensitizer Category 1

STOT SE 2 : Specific target organ toxicity following a single exposure Category 2 STOT

SE 3 : Specific target organ toxicity following a single exposure Category 3

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Information on the TSCA Inventor (Toxic Substances Control Act) SA:

CAS No	Name	State
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80 0-0 -7	Rosin	Registered
6787 -71-	ISM TH TRIS (2-ETHY HE ANOATE)	Registered
68 6- 6-	H drocarbons terpene processing b -products	Registered
-86-	alpha-Terpinene	Registered
138-86-3	Dipentene	Registered
86-62-	p-mentha-1 (8)-diene	Registered
13 66-78-	delta-3-Carene	Registered
21701 0-22-2	Titanium resinate	
80 2- 2-	Asphalt	Registered
8 62 -32-1	Eucal ptus globulus oil	
13 66-78-	3 7 7-trimeth lbic clo .1.0 hept-3-ene	Registered

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-87-6	p-C mene	Registered
8000-2 -7	Rosemar oil N. Afr.	Registered
108- -1	c clohexanone	Registered
108-67-8	1,3 -trimeth lbenzene mesit lene	Registered
76-22-2	Camphor	Registered

Abbreviations and acron ms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods b Road.

CF: iocentration factor.

CEN: European Committee for Standardization.

DME : Derived Minimal Effect evel exposure level corresponding to a lo ris that ris should be considered a tolerable minimum.

DNE : Derived No Effect evel level of exposure to the substance belo hich adverse effects are not anticipated.

EC 0: Half maximal effective concentration.

PPE: Personal protection e uipment.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

C 0: ethal concentration 0 .

D 0: ethal dose 0 .

og Po : ogarithm of the partition octanol- ater.

NOEC: No observed effect concentration.

PNEC: Predicted No Effect Concentration concentration of the substance belo hich adverse effects are not expected in the environmental compartment.

RID: Regulations Concerning the International Transport of Dangerous Goods b Rail.

e literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (E) 201 /830.

Regulation (EC) No 1 07/2006.

Regulation (E) No 1272/2008.

The information given in this Safet Data Sheet has been drafted in accordance ith COMMISSION REG ATION (E) 201 /830 of 28 Ma 201 amending Regulation (EC) No 1 07/2006 of the European Parliament and of the Council on the Registration Evaluation Authorisation and Restriction of Chemicals (REACH) establishing a European Chemicals Agenc amending Directive 1 / /EC and repealing Council Regulation (EEC) No 7 3/ 3 and Commission Regulation (EC) No 1 88/ as ell as Council Directive 76/76 /EEC and Commission Directives 1/1 /EEC 3/67/EEC 3/10 /EC and 2000/21/EC.

The information in this Safet Data Sheet on the Preparation is based on current no ledge and on current EC and national la s as far as the or ing conditions of the users is be ond our no ledge and control. The product must not be used for purposes other than those that are specified ithout first having ritten instructions on ho to handle. It is al a s the responsibilit of the user to ta e the appropriate measures in order to compl ith the re urements established b current legislation. The information contained in this Safet Sheet onl states a description of the safet re urements for the preparation and it must not be considered as a guarantee of its properties.

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