

SAFETY DATA SHEET

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

FPM 102 bright gold 9,25 %

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 102 bright gold 9,25 %**

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.

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.
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).
P370+P378	In case of fire: Use... to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

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P501 Dispose of contents/container to ...

EUH statements:

EUH208 Contains Dipentene. May produce an allergic reaction.
EUH208 Contains Rosin. May produce an allergic reaction.
EUH208 Contains delta-3-Carene. May produce an allergic reaction.
EUH208 Contains Silicon tepernate. May produce an allergic reaction.

Contains:

Rosemary oil N. Afr.
Clove oil
Eucalyptus globulus oil
Pine extract

2.3 Other hazards.

The product may have the following additional risks:
No other hazardous known as mentioned.

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
CAS No: 84625-32-1 EC No: 283-406-2	Eucalyptus globulus oil	>=25% <50%	Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
Index No: 603-009-00-3 CAS No: 108-93-0 EC No: 203-630-6 Registration No: 012119447488-26-XXXX	[1] cyclohexanol	>=5% <10%	Acute Tox. 4 *, H332 - Acute Tox. 4 *, H302 - Skin Irrit. 2, H315 - STOT SE 3, H335	-
CAS No: 8052-42-4 EC No: 232-490-9 Registration No: 012119480172-44-XXXX	[1] Asphalt	>=5% <10%	-	-
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	>=5% <10%	Aquatic Chronic 2, H411 - Flam. Liq. 3, H226 - STOT SE 3, H335	STOT SE 3, H335: C ≥ 25 %

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CAS No: 8000-25-7 EC No: 283-291-9	Rosemary oil N. Afr.	>=2.5% <5%	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	-
	Clove oil	>=2.5% <5%	Acute Tox. 4, H312 - Acute Tox. 4, H302 - Asp. Tox. 1, H304 - Eye Irrit. 2, H319 - Skin Sens. 1B, H317	-
CAS No: 94266-48-5 EC No: 304-455-9	Pine extract	>=2.5% <5%	Aquatic Acute 1, H400 - Aquatic Chronic 1, H410 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317 - Skin Sens. 1A, H317	-
CAS No: 68956-56-9 EC No: 273-309-3	Hydrocarbons, terpene processing by-products	>=1% <2.5%	Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-
Index No: 606-010-00-7 CAS No: 108-94-1 EC No: 203-631-1 Registration No: 012119453616-35-XXXX	[1] cyclohexanone	>=1% <2.5%	Acute Tox. 4 *, H332 - Flam. Liq. 3, H226	-
Index No: 601-022-00-9 CAS No: 1330-20-7 EC No: 215-535-7 Registration No: 012119488216-32-XXXX	xylene (Mixture of isomers)	>=1% <2.5%	Acute Tox. 4, H312 - Acute Tox. 4, H332 - Asp. Tox. 1, H304 - Eye Irrit. 2, H319 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - STOT RE 2, H373 - STOT SE 3, H335	-
CAS No: 8000-41-7 EC No: 232-268-1 Registration No: 012119553062-49-XXXX	Terpineol	>=1% <2.5%	Eye Irrit. 2, H319 - Skin Irrit. 2, H315	-

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CAS No: 99-86-5 EC No: 202-795-1	alpha-Terpinene	>=1% <2.5%	Acute Tox. 4, H302 - Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226	-
CAS No: 2137422-87-6 Registration No: 022120705500-72-0000	Silicon tepernate	>=0.1% <1%	Acute Tox. 4, H332 - Acute Tox. 4, H302 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - Skin Sens. 1, H317 - STOT SE 3, H335	-
Index No: 601029007 CAS No: 138-86-3 EC No: 205-341-0	Dipentene	>=0.1% <1%	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: 13466-78-9 EC No: 236-719-3 Registration No: 012119520252-55-XXXX	[1] delta-3-Carene	>=0.1% <1%	Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
Index No: 650-015-00-7 CAS No: 8050-09-7 EC No: 232-475-7 Registration No: 012119480418-32-XXXX	[1] Rosin	>=0.1% <1%	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	>=0.1% <1%	Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-
CAS No: 76-22-2 EC No: 200-945-0 Registration No: 012119966156-31-XXXX	[1] Camphor	>=0.1% <1%	Acute Tox. 4, H302 - Eye Irrit. 2, H319 - Flam. Sol. 2, H228 - Skin Irrit. 2, H315 - STOT SE 3, H335	-

(*)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.

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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.

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.

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.

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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.

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-authorized 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
H2	ACUTE TOXIC	50	200

7.3 Specific end use(s).

Not available.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
cyclohexanol	108-93-0	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	Eight hours	50	209
			Short term		
		United Kingdom [2]	Eight hours	50	208
			Short term		
		United States [3] (Cal/OSHA)	Eight hours	50	
			Short term		
		United States [4] (NIOSH)	Eight hours	50	
			Short term		
		United States [5] (OSHA)	Eight hours	50	200
			Short term		
Asphalt	8052-42-4	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	Eight hours		5
			Short term		
		United Kingdom [2]	Eight hours		5
			Short term		10
1,3,5-trimethylbenzene, mesitylene	108-67-8	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	Eight hours	20	100
			Short term		
		European Union [6]	Eight hours	20	100
			Short term		
cyclohexanone	108-94-1	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	Eight hours	10	40,8
			Short term	20	81,6
		European Union [6]	Eight hours	10 (skin)	40,8 (skin)
			Short term	20 (skin)	81,6 (skin)
		United Kingdom [2]	Eight hours	10	41
			Short term	20	82
		United States [3] (Cal/OSHA)	Eight hours	25	
			Short term		
		United States [4] (NIOSH)	Eight hours	25	
			Short term		
United States [5] (OSHA)	Eight hours	50	200		
	Short term				

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delta-3-Carene	13466-78-9	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	Eight hours	20	
			Short term		
Rosin	8050-09-7	United Kingdom [2]	Eight hours		0,05
			Short term		0,15
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	13466-78-9	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	Eight hours	20	
			Short term		
Camphor	76-22-2	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	Eight hours	2	12
			Short term	3	19

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

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

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

[4] 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.

[5] 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).

[6] 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).

The product does NOT contain substances with Biological Limit Values. Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
cyclohexanol CAS No: 108-93-0 EC No: 203-630-6	DNEL (Workers)	Inhalation, Long-term, Systemic effects	130 (mg/m ³)
Asphalt CAS No: 8052-42-4 EC No: 232-490-9	DNEL (Workers)	Inhalation, Long-term, Local effects	2,9 (mg/m ³)
1,3,5-trimethylbenzene,mesitylene CAS No: 108-67-8 EC No: 203-604-4	DNEL (Workers)	Inhalation, Long-term, Local effects	100 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	100 (mg/m ³)
cyclohexanone CAS No: 108-94-1 EC No: 203-631-1	DNEL (Workers)	Inhalation, Long-term, Local effects	40 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Local effects	20 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	40 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	10 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Systemic effects	80 (mg/m ³)
	DNEL (General population)	Inhalation, Acute, Systemic effects	20 (mg/m ³)

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	DNEL (Workers)	Inhalation, Acute, Local effects	80 (mg/m ³)
	DNEL (General population)	Inhalation, Acute, Local effects	40 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	4 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	1 (mg/kg bw/day)
	DNEL (Workers)	Dermal, Acute, Systemic effects	4 (mg/kg bw/day)
	DNEL (General population)	Dermal, Acute, Systemic effects	1 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term and acute, Systemic effects	1,5 (mg/kg bw/day)
xylene (Mixture of isomers) CAS No: 1330-20-7 EC No: 215-535-7	DNEL (Workers)	Inhalation, , Local effects	289 (mg/m ³)
	DNEL (Workers)	Dermal, , Local effects	180 (mg/kg)
	DNEL (Workers)	Inhalation, , Local effects	77 (mg/m ³)
	DNEL (General population)	Inhalation, , Local effects	174 (mg/m ³)
	DNEL (General population)	Dermal, , Local effects	108 (mg/kg)
	DNEL (General population)	Oral, , Local effects	1,6 (mg/kg/dia)
Terpineol CAS No: 8000-41-7 EC No: 232-268-1	DNEL (Workers)	Inhalation, Long-term, Systemic effects	5,8 (mg/m ³)
delta-3-Carene CAS No: 13466-78-9 EC No: 236-719-3	DNEL (Workers)	Inhalation, Long-term, Systemic effects	5,98 (mg/m ³)
Rosin CAS No: 8050-09-7 EC No: 232-475-7	DNEL (Workers)	Inhalation, Long-term, Systemic effects	176 (mg/m ³)
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene CAS No: 13466-78-9 EC No: 236-719-3	DNEL (Workers)	Inhalation, Long-term, Systemic effects	5,98 (mg/m ³)

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 risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
cyclohexanone CAS No: 108-94-1 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/kg)
	Sedimento agua de mar	0,017 (mg/kg)

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	Soil	0,014 (mg/kg)
xylene (Mixture of isomers) CAS No: 1330-20-7 EC No: 215-535-7	Agua corriente	0,327 (mg/L)
	Marine water	0,327 (mg/L)
	Intermittent water release	0,327 (mg/L)
	sedimento de agua dulce	12,46 (mg/kg)
	sedimento marino	12,46 (mg/kg)
	Soil	2,31 (mg/kg)
	planta de tratamiento de aguas residuales	6,58 (mg/l)

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

expiration valves.

Observations: Use when exceeding TL for one or more substances contained in the mixture. Be sure that the

observations:

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.

Observations:

Always use with clean, dry hands.

Material:	P C (polyvinyl chloride)	Permeation 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.

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9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour and colour

Colour: not available

Odour: characteristic odour

Threshold: not available

pH: N.A./N.A.

Melting point: not available C

Boiling Point: 171 C

Flash point: 46 C

Evaporation rate: not available

Inflammability (solid, gas): not available

Lower Explosive Limit: It does not contain chemical groups associated with explosive properties

Upper Explosive Limit: It does not contain chemical groups associated with explosive properties vapour

Pressure: 1,311

Vapour density: not available

Relative density: 0,934

Solubility: N.A./N.A.

Liposolubility: N.A./N.A.

Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): not available

Auto-ignition temperature: not available C

Decomposition temperature: not available C

Viscosity: N.A./N.A.

Explosive properties: It does not contain chemical groups associated with explosive properties

Oxidizing properties: It does not contain chemical groups associated with oxidizing properties

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

9.2 Other information.

Pour point: not available

Link: not available

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.

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SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT REARATION. 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.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
cyclohexanol CAS No: 108-93-0 EC No: 203-630-6	Oral	LD50	RAT	1400 mg/kg
	Dermal	LD50	Rabbit	5000 mg/ g
	Inhalation	CL50	Rat	3.6 mg/L [1] [1] OECD Test guideline 403
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] Igiene i Sanitariya. For English translation, see H SAAV. Vol. 44(5), g. 15, 1979
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, g. 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, g. 18, 1974
xylene (Mixture of isomers) CAS No: 1330-20-7 EC No: 215-535-7	Oral	LD50	Rat	4300 mg/kg bw [1] [1] AMA Archives of Industrial Health. Vol. 14, g. 387, 1956
	Dermal	LD50	Rabbit	> 1700 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, g. 123, 1974
	Inhalation	LC50	Rat	21,7 mg/l/4 h [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, g. 123, 1974
Rosin CAS No: 8050-09-7 EC No: 232-475-7	Oral	DL50	Rat	2800 mg/ g
	Dermal			
	Inhalation			

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3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	Oral	LD50	Rat	4800 mg/kg [1]
		LD50	Rat	4800 mg/kg [2]
				[1] Food and Cosmetics Toxicology. Vol. 11, g. 1053, 1973 [2] Food and Cosmetics Toxicology. Vol. 11, g. 1053, 1973
	Dermal			
	Inhalation			
CAS No: 13466-78-9 EC No: 236-719-3				
Camphor	Oral	LD50	Topo	1400 mg/kg
	Dermal	LD50	Ratto	2000 mg/kg
	Inhalation	LC50	Ratto	500 mg/kg
CAS No: 76-22-2 EC No: 200-945-0				

a) acute toxicity

Not conclusive data for classification.

Acute Toxicity Estimate (ATE): Mixtures:

ATE (Dermal) = 24.020 mg/kg

ATE (Oral) = 3.541 mg/kg

b) skin corrosion/irritation product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation

Based on available data, the classification criteria are not met.

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

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

Based on available data, the classification criteria are not met.

) 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

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1,3,5-trimethylbenzene, mesitylene	Fish	LC50 Fish 12,5 mg/l (96 h) 1 1 Renniman, G., R. Hartung, and . . . eber r. 1976. A Continuous Flo . . . ioassa 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 Sea Water-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.)
CAS No: 108-67-8 EC No: 203-604-4	Aquatic plants	
Cyclohexanone	Fish	Pimephales LC50 promelas 572-732 mg/l (96 h) 1 Committee on Methods for 1 Test method of the U.S. EPA C 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)
Xylene (Mixture of isomers)	Fish	LC50 Fish 15,7 mg/l (96 h) 1 1 Aile, H.C., D.H. . Liu, and H.A. avitz 1985. Time/Toxicity Relationships in Short-Term Static, Dynamic, and Plug-Flow Bioassays. In: R.C. Ahner and D. . Hansen (Eds.), Aquatic Toxicology and Hazard Assessment, 8th Symposium, ASTM STP 891, Philadelphia, PA :193-212
	Aquatic invertebrates	LC50 Crustacean 8,5 mg/l (48 h) 1 1 Tatem, H.E., .A. Cox, and . . . Anderson 1978. The Toxicity of Oils and Petroleum Hydrocarbons to Estuarine Crustaceans. Estuar. Coast. Mar. Sci. 6(4):365-373. Tatem, H.E. 1975. The Toxicity and Physiological Effects of Oil and Petroleum Hydrocarbons on Estuarine Grass Shrimp Palaemonetes pugio (Holthuis). Ph.D. Thesis, Texas A M University, College Station, TX :133 p
	Aquatic plants	CE50 Selastrum capricornutum 2.2 mg/l (72 h) 1 1 OECD TG 201
CAS No: 1330-20-7 EC No: 215-535-7		

12.2 Persistence and degradability.

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

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Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
1,3,5-trimethylbenzene, mesitylene N. CAS: 108-67-8 EC No: 203-604-4	3,42	-	-	Moderate
gamma-cetohexanone N. CAS: 108-94-1 EC No: 203-631-1	0,81	-	-	Very low
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

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 water courses. 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 water courses. 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.

Transport following ADR rules for road transport, RID rules for rail, ADN for inland waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG. Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA.

Transport document: Air waybill.

14.1 UN number.

UN No: UN1263

14.2 UN proper shipping name.

Description:

ADR: UN 1263, PAINT RELATED MATERIAL, 3, PG III, (D/E)

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IMDG: UN 1263, PAINT RELATED MATERIAL (EUCALYPTUS GLO ULUS OIL), 3, PG III, MARINE POLLUTANT ICAO/IATA:
UN 1263, PAINT RELATED MATERIAL, 3, PG III

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

14.6 Special precautions for user.

Labels: 3

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hazard number: 30
ADR : 5 I D
: 5
ICAO : 10

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.
Transport by ship, FEM Emergency sheets (F Fire, S - Spills): F-E,S-E Proceed in accordance with point .

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

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2000 of the European Parliament and of the Council of 1 September 2000 on substances that deplete the ozone layer.

Volatile organic compound (VOC)

VOC content (p/p): 20,103 %

VOC content: 18,813 g/l

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): 2

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No /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 phrases that appear in section 3:

22	Extremely flammable liquid and vapour.
22	Flammable liquid and vapour.
228	Flammable solid.
302	harmful if swallowed.
30	may be fatal if swallowed and enters airways.
312	harmful in contact with skin.
315	Causes skin irritation.
31	may cause an allergic skin reaction.
31	Causes serious eye irritation.
332	harmful if inhaled.
335	may cause respiratory irritation.
3 1	may cause damage to organs.
3 3	may cause damage to organs through prolonged or repeated exposure.
00	Very toxic to aquatic life.
10	Very toxic to aquatic life with long lasting effects.
11	Toxic to aquatic life with long lasting effects.

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Classification codes:

Acute Tox. : Acute toxicity (Dermal), Category
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
Skin Irrit. 2 : Skin irritant, Category 2
Skin Sens. 1 : Skin sensitiser, Category 1
Skin Sens. 1A : Skin sensitiser, Category 1A
Skin Sens. 1 : Skin sensitiser, Category 1
STOT RE 2 : Specific target organ toxicity following a repeated exposure, Category 2
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 Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
8 25-32-1	Eucalyptus globulus oil	
108- 3-0	cyclohexanol	Registered
8052- 2-	Asphalt	Registered
108- -8	1,3,5-trimethylbenzene, mesitylene	Registered
8000-25-	Rosemary oil N. Afr.	Registered
	Clove oil	
2 - 8-5	Pine extract	
8 5 -5 -	hydrocarbons, terpene processing by-products	Registered
108- -1	cyclohexanone	Registered
1330-20-	xylene (mixture of isomers)	Registered
8000- 1-	Terpineol	Registered
-8 -5	alpha-Terpinene	Registered
213 22-8 -	Silicon terephthalate	
138-8 -3	Dipentene	Registered
13 - 8-	delta-3-Carene	Registered
8050-0 -	Rosin	Registered
13 - 8-	3,3-dimethylbicyclo[2.2.1]hept-3-ene	Registered
-22-2	Camphor	Registered

Abbreviations and acronyms used:

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

CF: concentration factor.

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CEN: European Committee for Standardisation.

DE : Derived Minimal Effect level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

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

EC50: Half maximal effective concentration.

PPE: Personal protection equipment.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation.

ID : International Maritime Code for Dangerous Goods.

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C50: Lethal concentration, 50%.

D50: Lethal dose, 50%.

Log Pow: Logarithm of the partition octanol-water.

NOEC: No observed effect concentration.

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

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

Key literature references and sources for data:

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

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

Regulation (EU) 2015/830.

Regulation (EC) No 1005/2008.

Regulation (EU) No 1273/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1005/2008 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1991/676/EEC and repealing Council Regulation (EEC) No 3707/83 and Commission Regulation (EC) No 1831/2003 as well as Council Directive 1999/45/EC and Commission Directives 1999/45/EC, 2000/21/EC, 2000/22/EC, 2000/23/EC and 2000/24/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

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