SAFETY DATA SHEET

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

FPM 204 lustre violet

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

1.1 Product identifier.

Product Name: **FPM 204 lustre violet**

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.

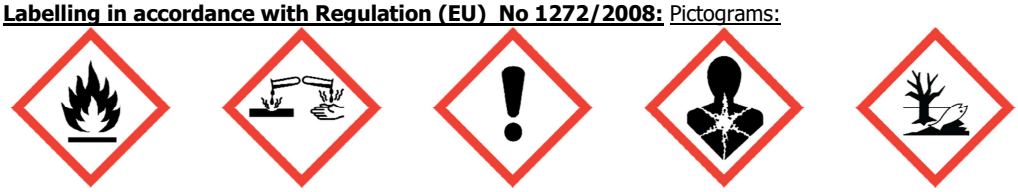
Company: **GLAZURA, S.R.O.**
Address: Roudnická 122
City: 413 01 Dobrín
Telephone: +420 416 809 711
Fax: +420 416 809 814, +420 416 809 733
E-mail: info@glazura.cz

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 Dam. 1 : Causes serious eye damage.
Flam. Liq. 3 : Flammable liquid and vapour.
Skin Irrit. 2 : Causes skin irritation.
Skin Sens. 1 : May cause an allergic skin reaction.
STOT SE 2 : May cause damage to organs.

2.2 Label elements.
Labelling in accordance with Regulation (EU) No 1272/2008: Pictograms:



Signal Word:

Danger

H statements:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H371	May cause damage to organs.
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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/...
P321 Specific treatment (see ... on this label).
P370+P378 In case of fire: Use... to extinguish.

EUH statements:
EUH208 Contains 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar',ar''-Me derivs.. May produce an allergic reaction.

Contains: titanium tetrabutanolate
Rosemary oil N. Afr.
Silicon tepernate
Zinc abietate
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
CAS No: 8000-25-7 EC No: 283-291-9	Rosemary oil N. Afr.	>=10% <25%	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	-
CAS No: 84625-32-1 EC No: 283-406-2	Eucalyptus globulus oil	>=10% <25%	Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-

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CAS No: 2137422-87-6 Registration No: 022120705500-72-0000	Silicon tepernate	>=5% <10%	Acute Tox. 4, H332 - Acute Tox. 4, H302 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - Skin Sens. 1, H317 - 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: 603-014-00-0 CAS No: 111-76-2 EC No: 203-905-0 Registration No: 012119475108-36-XXXX	[1] 2-Butoxyethanol	>=5% <10%	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H332 - Acute Tox. 4 *, H302 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315	-
CAS No: 5593-70-4 EC No: 227-006-8	titanium tetrabutanolate	>=2.5% <5%	Eye Dam. 1, H318 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - STOT SE 3, H335 - STOT SE 3, H336	-
Index No: 601-045-00-4 CAS No: 119-64-2 EC No: 204-340-2 Registration No: 012119539463-37-XXXX	1,2,3,4-tetrahydronaphthalene	>=2.5% <5%	Aquatic Chronic 2, H411 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315	-
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	>=2.5% <5%	Aquatic Chronic 2, H411 - Flam. Liq. 3, H226 - STOT SE 3, H335	STOT SE 3, H335: C ≥ 25 %
CAS No: 6798-76-1 EC No: 229-875-9	Zinc abietate	>=2.5% <5%	Aquatic Chronic 2, H411 - Flam. Sol. 1, H228 - 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	>=1% <2.5%	Acute Tox. 4 *, H332 - Acute Tox. 4 *, H302 - Skin Irrit. 2, H315 - STOT SE 3, H335	-

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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	-
CAS No: 70879-65-1 EC No: 274-972-1	2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar',ar''-Me derivs.	>=0.1% <1%	Carc. 2, H351 - Muta. 2, H341 - Skin Sens. 1B, H317	-

(*)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. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Eye contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Dont 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.

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.
Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.
Contact with eyes may cause irreversible damage.
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. Do not induce vomiting. If the person vomits, clear the respiratory tract.

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:

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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.
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.

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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 35º 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):

		Qualifying quantity (tonnes) for the application of	
Code	**Description**	**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/m³
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
2-Butoxyethanol	111-76-2	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	**Eight hours**	20	98
			Short term	50	246
		European Union [3]	**Eight hours**	20 (skin)	98 (skin)
			Short term	50 (skin)	246 (skin)
		United Kingdom [2]	**Eight hours**	25	123
			Short term	50	246
		United States [4] (Cal/OSHA)	**Eight hours**	20	
			Short term		
		United States [5] (NIOSH)	**Eight hours**	5	
			Short term		
		United States [6] (OSHA)	**Eight hours**	50	240
			Short term		
1,3,5-trimethylbenzene,mesitylene	108-67-8	Koninkrijk	**Eight hours**	20	100

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		elgi /Royaume de elgi ue/K nig reich elgien 1	Short term		
		European Union 3	Eight hours	20	100
			Short term		
cyclohexanol	108 93 0	Konin ri elgi /Royaume de elgi ue/K nig reich elgien 1	Eight hours	0	209
			Short term		
		United Kingdom 2	Eight hours	0	208
			Short term		
		United States 4 (Cal/OSHA)	Eight hours	0	
			Short term		
		United States (NIOSH)	Eight hours	0	
			Short term		
		United States 6 (OSHA)	Eight hours	0	200
			Short term		
cyclohexanone	108 94 1	Konin ri elgi /Royaume de elgi ue/K nig reich elgien 1	Eight hours	10	40,8
			Short term	20	81,6
		European Union 3	Eight hours	10 (s in)	40,8 (s in)
			Short term	20 (s in)	81,6 (s in)
		United Kingdom 2	Eight hours	10	41
			Short term	20	82
		United States 4 (Cal/OSHA)	Eight hours	2	
			Short term		
		United States (NIOSH)	Eight hours	2	
			Short term		
		United States 6 (OSHA)	Eight hours	0	200
			Short term		

1 According Valeurs Limites d Exposition Professionnelle (VLEP) or Grenswaarden voor eroepsmatige lootstelling (G) list adopted by elgian Ministry of Employment and Labour.
2 According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adobted by Health and Safety Executive.
3 According both inding Occupational Esposure Limits (OELVs) 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).
National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, anuary, 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 iological Limit Values. Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
Asphalt CAS No: 80 2 42 4 EC No: 232 490 9	DNEL (or ers)	Inhalation, Long term, Local effects	2,9 (mg/m)

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2 utoxyethanol CAS No: 111 76 2 EC No: 203 90 0	DNEL (or ers)	Inhalation, Long term, Systemic effects	98 (mg/m)
	DNEL (General population)	Inhalation, Long term, Systemic effects	49 (mg/m)
	DNEL (or ers)	Inhalation, Acute, Systemic effects	663 (mg/m)
	DNEL (General population)	Inhalation, Acute, Systemic effects	426 (mg/m)
	DNEL (or ers)	Inhalation, Acute, Local effects	246 (mg/m)
	DNEL (General population)	Inhalation, Acute, Local effects	123 (mg/m)
	DNEL (or ers)	Dermal, Long term, Systemic effects	7 (mg/ g bw/d)
	DNEL (General population)	Dermal, Long term, Systemic effects	38 (mg/ g bw/d)
	DNEL (or ers)	Dermal, Acute, Systemic effects	89 (mg/ g bw/d)
	DNEL (General population)	Dermal, Acute, Systemic effects	44, (mg/ g bw/d)
	DNEL (General population)	Oral, Long term, Systemic effects	3,2 (mg/ g bw/d)
	DNEL (General population)	Oral, Acute, Systemic effects	13,4 (mg/ g bw/d)
1,2,3,4 tetrahydronaphthalene CAS No: 119 64 2 EC No: 204 340 2	DNEL (or ers)	Inhalation, Long term, Local effects	2,1 (mg/m)
	DNEL (or ers)	Inhalation, Long term, Systemic effects	2,1 (mg/m)
1,3, trimethylben ene,mesitylene CAS No: 108 67 8 EC No: 203 604 4	DNEL (or ers)	Inhalation, Long term, Local effects	100 (mg/m)
	DNEL (or ers)	Inhalation, Long term, Systemic effects	100 (mg/m)
cyclohexanol CAS No: 108 93 0 EC No: 203 630 6	DNEL (or ers)	Inhalation, Long term, Systemic effects	130 (mg/m3)
cyclohexanone CAS No: 108 94 1 EC No: 203 631 1	DNEL (or ers)	Inhalation, Long term, Local effects	40 (mg/m)
	DNEL (General population)	Inhalation, Long term, Local effects	20 (mg/m)
	DNEL (or ers)	Inhalation, Long term, Systemic effects	40 (mg/m)
	DNEL (General population)	Inhalation, Long term, Systemic effects	10 (mg/m)
	DNEL (or ers)	Inhalation, Acute, Systemic effects	80 (mg/m)
	DNEL (General population)	Inhalation, Acute, Systemic effects	20 (mg/m)
	DNEL (or ers)	Inhalation, Acute, Local effects	80 (mg/m)
	DNEL (General population)	Inhalation, Acute, Local effects	40 (mg/m)
	DNEL (or ers)	Dermal, Long term, Systemic effects	4 (mg/ g bw/day)

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	DNEL (General population)	Dermal, Long term, Systemic effects	1 (mg/ g bw/day)
	DNEL (or 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)

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
2 utoxyethanol CAS No: 111 76 2 EC No: 203 90 0	Fresh water	8,80 (mg/l)
	Agua de mar	0,88 (mg/l)
	STP	463 (mg/l)
	Soil	3,13 (mg/l)
	Sedimentos	34,6 (mg/l)
	Oral	20 (mg/ g bw/d)
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/ g)
	Sedimento agua de mar	0,017 (mg/ g)
	Soil	0,014 (mg/ g)

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 ade uate ventilation, which can be achieved by using good local exhaust ventilation and a good general exhaust system.

Continued on next page.

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 adapted 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 conteined 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: eep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much o not make any changes to the gloves that may alter their resistance, or apply paints, solv

s
nts possible.
or
adhesives.
loves should be of the appropriate size and fit the user's hand well, not being too loose or t o ight.

Observations: Always use with clean, dry hands.

Material:	P C (polyvinyl chloride)	Breakthrough time (min.): > 480	Material thickness 0, (mm): 5

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 sketching 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: 178 C
Flash point: 53 C
Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
apour pressure: 1,068 apour
density:N.A./N.A.
Relative density:N/A
Solubility: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.
ecomposition temperature: N.A./N.A.
iscosity: N/A

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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.
inematic 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. o 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. 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.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
2-Butoxyethanol	Oral	L 50	Rat	470 mg/kg bw [1]
		[1] ow Chemical Company Reports. ol. MS -46		
	ermal	LC50	uinea pig	>2000 mg/kg

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CAS No: 111-76-2 EC No: 203-905-0	Inhalation	LC50 Rat 2,17 mg/l/4 h [1] [1] Toxicology and Applied Pharmacology. ol. 68, Pg. 405, 1983
1,3,5-trimethylbenzene,mesitylene CAS No: 108-67-8 EC No: 203-604-4	Oral	
	ermal	
	Inhalation	LC50 Rat 24 mg/l/4 h [1] [1] igiena i Sanitariya. For English translation, see HYSAA . ol. 44(5), Pg. 15, 1979
cyclohexanol CAS No: 108-93-0 EC No: 203-630-6	Oral	L 50 RAT 1400 mg/kg
	ermal	L 50 Rabbit 5000 mg/ g
	Inhalation	CL50 Rat 3.6 mg/L [1] [1] OEC Test uideline 403
cyclohexanone CAS No: 108-94-1 EC No: 203-631-1	Oral	L 50 Rat 800 mg/kg [1] [1] American Industrial Hygiene Association ournal. ol. 30, Pg. 470, 1969
	ermal	
	Inhalation	LC50 Rat 11.8 mg/l/4 h [1] [1] Raw Material ata Handbook, ol.1: Organic Solvents, 1974. ol. 1, Pg. 18, 1974

a) acute toxicity
Not conclusive data for classification.

Acute Toxicity Estimate (ATE): Mixtures:
ATE (ermal) = 22.000 mg/kg
ATE (Oral) = 3.320 mg/kg

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b) skin corrosion/irritation Product classified:
Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation Product classified:
Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation Product classified:
Skin sensitiser, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity
Based on available data, the classification criteria are not met.

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

g) reproductive toxicity
Not conclusive data for classification.

h) STOT-single exposure Product classified:
Specific target organ toxicity following a single exposure, Category 2: May cause damage to organs.

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

) 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
2-Butoxyethanol CAS No: 111-76-2 EC No: 203-905-0	Fish	LC50	Fish	1370 mg/l (96 h) [1] [1] awson, .W., A.L. ennings, . rozdowski, and E. Rider 1977. The Acute Toxicity of 47 Industrial Chemicals to Fresh and Saltwater Fishes. .Hazard.Mater. 1(4):303-318 (OEC ata File)
	Aquatic invertebrates	LC50	Crustacean	800 mg/l (48 h) [1] [1] Blackman, R.A.A. 1974. Toxicity of Oil-Sinking Agents. Mar.Pollut.Bull. 5:116-118
	Aquatic plants			
1,3,5-trimethylbenzene,mesitylene	Fish	LC50	Fish	12,5 mg/l (96 h) [1] [1] Brenniman, ., R. Hartung, and W. . Weber r. 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	LC50	Crustacean	13 mg/l (48 h) [1]

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	invertebrates	[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 Ma or Aromatic Components on Larval Stages of the ungeness Crab, Cancer magister ana. In: .A.Wolfe (Ed.)
CAS No: 108-67-8 EC No: 203-604-4	Aquatic plants	
cyclohexanone CAS No: 108-94-1 EC No: 203-631-1	Fish	Pimephales LC50 572-732 mg/l (96 h) [1] promelas [1] Test method of the U.S. EPA Committee on Methods for Toxicity (1975)
	Aquatic invertebrates	EC50 aphnia magna >100 mg/l (48h) [1] [1] OEC uideline 202 (aphnia sp. Acute Immobilisation Test)
	Aquatic plants	esmodesmus ECr50 >100 mg/l (72h) [1] subspicatus [1] OEC uideline 201 (Alga, rowth Inhibition Test)

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.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
2-Butoxyethanol N. CAS: 111-76-2 EC No: 203-905-0	0,8	-	-	ery low
1,3,5-trimethylbenzene,mesitylene N. CAS: 108-67-8 EC No: 203-604-4	3,42	-	-	Moderate
cyclohexanone N. CAS: 108-94-1 EC No: 203-631-1	0,81	-	-	ery 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.

-Continued on next page.-

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.
Revision date: 30/08/2018 **Print date: 30/08/2018**

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.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMD 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: IMD . Transport documentation: ill of lading **Air:** Transport by plane: ICAO/IATA.
Transport document: Airway bill.

14.1 UN number.
UN No: UN1263

14.2 UN proper shipping name.
Description:
ADR: UN 1263, PAINT RELATED MATERIAL, 3, P III, (D/E)
IMD : UN 1263, PAINT RELATED MATERIAL (ROSEMAR OIL N. AFR.), 3, P III, MARINE POLLUTANT
ICAO/IATA: UN 1263, PAINT RELATED MATERIAL, 3, P III

14.3 Transport hazard class(es).
Class(es): 3

14.4 Packing group.
Packing group: III

14.5 Environmental hazards.
Marine pollutant: es

Dangerous for the environment

14.6 Special precautions for user.
Labels: 3

Hazard number: 30
ADR L : 5 L IMD
L : 5 L
ICAO L : 10 L

-Continued on next page.-

Provisions concerning carriage in bulk ADR: Not authori ed carriage in bulk in accordance ith ADR.
Transport by ship, FEm Emergency 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 bulk.

Revision date: 30/08/2018 Print date: 30/08/2018

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 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the o one layer.

Volatile organic compound VOC
VOC content p/p : 15, 15
VOC content: 149,5 6 g/l

Product classification according to Annex I of Directive 2012/18/EU SEVESO III : E2
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 649/2012, 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:

H226	Flammable li uid and vapour.
H228	Flammable solid.
H302	Harmful if s allo ed.
H304	May be fatal if s allo ed and enters air ays.
H312	Harmful in contact ith skin.
H315	Causes skin irritation.
H31	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause dro siness or di iness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H3 1	May cause damage to organs.
H400	Very toxic to a uatic life.
H410	Very toxic to a uatic life ith long lasting effects.
H411	Toxic to a uatic life ith long lasting effects.

Classification codes:

Acute Tox. 4 : Acute toxicity Dermal , Category 4
Acute Tox. 4 : Acute toxicity Inhalation , Category 4
Acute Tox. 4 : Acute toxicity Oral , Category 4
A uatic Acute 1 : Acute toxicity to the a uatic environment, Category 1

Continued on next page.

A uatic Chronic 1 : Chronic effect to the a uatic environment, Category 1 A uatic Chronic 2 : Chronic effect to the a uatic environment, Category 2
Asp. Tox. 1 : Aspiration toxicity, Category 1 Carc. 2 : Carcinogen, Category 2
Eye Dam. 1 : Serious eye damage, Category 1 Eye Irrit. 2 : Eye irritation, Category 2
Flam. i . 3 : Flammable li uid, Category 3
Flam. Sol. 1 : Flammable solid, Category 1
Muta. 2 : Mutagen, Category 2
Skin Irrit. 2 : Skin irritant, Category 2
Skin Sens. 1 : Skin sensitiser, Category 1
Skin Sens. 1 : Skin sensitiser, Category 1

Continued on next page.

STOT SE 2 : Specific target organ toxicity follo ing a single exposure, Category 2 STOT
SE 3 : Specific target organ toxicity follo ing a single exposure, Category 3

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

Information on the TSCA Inventory Toxic Substances Control Act USA:

CAS No	Name	State
8000 25	Rosemary oil N. Afr.	Registered
84625 32 1	Eucalyptus globulus oil	
213 422 8 6	Silicon tepernate	
8052 42 4	Asphalt	Registered
111 6 2	2 utoxyethanol	Registered
5593 0 4	titanium tetrabutanolate	Registered
119 64 2	1,2,3,4 tetrahydronaphthalene	Registered
108 6 8	1,3,5 trimethylben ene,mesitylene	Registered
6 98 6 1	inc abietate	Registered
108 93 0	cyclohexanol	Registered
108 94 1	cyclohexanone	Registered
08 9 65 1	2 Naphthalenol, 1 4 phenyla o phenyl a o , ar ,ar Me derivs.	Registered

Abbreviations and acronyms used:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CF: ioconcentration factor.
CEN: European Committee for Standardi ation.
DME : Derived Minimal Effect evel, exposure level corresponding to a lo risk, that risk should be considered a tolerable minimum.
DNE : Derived No Effect evel, level of exposure to the substance belo hich adverse effects are not anticipated.
EC50: Half maximal effective concentration.
PPE: Personal protection e uipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organi ation.
IMDG: International Maritime Code for Dangerous Goods.
C50: ethal concentration, 50 .
D50: ethal dose, 50 .
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 by Rail.

ey literature references and sources for data:
http://eur lex.europa.eu/homepage.html
http://echa.europa.eu/
Regulation EU 2015/830.
Regulation EC No 190 /2006.
Regulation EU No 12 2/2008.

The information given in this Safety Data Sheet has been drafted in accordance ith COMMISSION REGU ATION EU 2015/830 of 28 May 2015 amending Regulation EC No 190 /2006 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 1999/45/EC and repealing Council Regulation EEC No 93/93 and Commission Regulation EC No 1488/94 as ell as Council Directive 6/ 69/EEC and Commission Directives 91/155/EEC, 93/6 /EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current kno ledge and on current EC and national la s, as far as the orking conditions of the users is beyond our kno 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 ays the responsibility of the user to take the appropriate measures in order to comply ith the re uirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety re uirements for the preparation, and it must not be considered as a guarantee of its properties.

End of safety data sheet.