

# SAFETY DATA SHEET

COLOROBBIA ITALIA S.P.A.					HTL0	00038
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### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

#### **1.1** Product identifier

Product code:000000000100Product description:Not available.Product type:liquidOther means of identification:HTL-000038	)57908

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Third firing decoration in the glass/ceramics/porcelain sectors

#### **1.3** Details of the supplier of the safety data sheet

COLOROBBIA ITALIA S.P.A. Indirizzo via Pietramarina 53 Località e Stato 50053 Sovigliana - Vinci (FI) Italia tel. +39 0571 7091 fax +39 0571 709.850

e-mail address of person : <u>QHSE@colorobbia.it</u> responsible for this SDS 1.4 Emergency telephone number

#### National advisory body/Poison Center

Telephone number:CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06<br/>68593726<br/>Az. Ospedaliera Università Foggia - Foggia - tel. 800183459<br/>Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870<br/>CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000<br/>CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343<br/>Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel.<br/>+39 055 7947819<br/>CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel.<br/>+39 0382 24444

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> Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** 

Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

:

Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 Repr. 1B, H360 STOT SE 3, H335 (Respiratory tract irritation) STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms	
Signal word Hazard statements	<ul> <li>Danger</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H360 May damage fertility or the unborn child.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statement	t <u>s</u>
General	: P103 - Read carefully and follow all instructions.P102 - Keep out of reach of children.P101 - If medical advice is needed, have product container or label at hand.
Prevention	: P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P284 - Wear respiratory protection. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after
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Response	:	handling. P391 - Collect spillage. P308 - IF exposed or concerned: P308 + P313 - Get medical advice or attention. P304 - IF INHALED: P304 + P340 - Remove person to fresh air and keep comfortable for breathing. P304 + P312 - Call a POISON CENTER or doctor if you feel unwell. P342 - If experiencing respiratory symptoms: P342 + P311 - Call a POISON CENTER or doctor. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 - IF ON SKIN: P302 + P352 - Wash with plenty of water. P333 - If skin irritation or rash occurs: P333 + P313 - Get medical advice or attention. P305 - IF IN EYES: P305 + P351 + P338 - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P310 - Immediately call a POISON CENTER or doctor.
Storage	:	P405 - Store locked up.P403 + P233 - Store in a well-ventilated
Disposal	:	place. Keep container tightly closed. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	cyclohexanol bornan-2-one rosin formaldehyde, reaction products with butylphenol turpentine, oil dodecane-1-thiol linalool 4-methylpentan-2-one eugenol cineole (R)-p-mentha-1,8-diene pin-2(3)-ene
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Restricted to professional users.
Special packaging requirements Containers to be fitted with	:	Yes, applicable.
child-resistant fastenings Tactile warning of danger	:	Yes, applicable.
2.3 Other hazards		
Product meets the criteria: Thisfor PBT or vPvBvPvHaccording to Regulation(EC) No. 1907/2006,		ure does not contain any substances that are assessed to be a PBT or a

Annex XIII Other hazards which do : None known. not result in classification

# **SECTION 3: Composition/information on ingredients**

.2 Mixtures	:	Mixture	Γ	Γ	Г
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M- factors and ATEs	Туре
cyclohexanol	EC : 203-630-6 CAS : 108-93-0 Index: 603-009-00-3	>= 10 - <= 25	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 STOT SE 3, H335 (Respiratory tract irritation)	ATE [Oral] = 1.400 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
bornan-2-one	EC : 200-945-0 CAS : 76-22-2	>= 10 - <= 25	Flam. Sol. 2, H228 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Chronic 4, H413	-	[1]
rosin	EC : 232-475-7 CAS : 8050-09-7 Index: 650-015-00-7	> 0 - <= 10	Met. Corr. 1, H290 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 10	[1]
formaldehyde, reaction products with butylphenol	EC : 294-145-9 CAS : 91673-30-2 Index: 605-021-00-4	> 0 - <= 5	Skin Sens. 1, H317	-	[1]
turpentine, oil	EC : 232-350-7 CAS : 8006-64-2 Index: 650-002-00-6	> 0 - <= 5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1.100 mg/kg ATE [Inhalation (vapours)] = 13,7 mg/l	[1]
Gilsonite	CAS : 12002-43-6	> 0 - <= 3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
dodecane-1-thiol	EC : 203-984-1 CAS : 112-55-0	> 0 - <= 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 (Respiratory tract irritation)	-	[1]
linalool	EC : 201-134-4 CAS : 78-70-6 Index: 603-235-00-2	> 0 - < 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317	-	[1]
4-methylpentan-2-one		> 0 - < 1	Flam. Liq. 2, H225	ATE [Oral] = 500 mg/kg	[1] [2]

	EC : 203-550-1 CAS : 108-10-1 Index: 606-004-00-4		Acute Tox. 4, H302 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	
eugenol	EC : 202-589-1 CAS : 97-53-0	> 0 - < 1	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1, H317	ATE [Oral] = 1.930 mg/kg	[1]
cineole	EC : 207-431-5 CAS : 470-82-6	> 0 - <= 0,3	Flam. Liq. 3, H226 Skin Sens. 1, H317	-	[1]
(R)-p-mentha-1,8-diene	EC : 227-813-5 CAS : 5989-27-5 Index: 601-096-00-2	> 0 - <= 0,3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]
pin-2(3)-ene	EC : 201-291-9 CAS : 80-56-8	> 0 - <= 0,3	Flam. Liq. 3, H226 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
camphene	EC : 201-234-8 CAS : 79-92-5	> 0 - <= 0,3	Flam. Sol. 2, H228 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	Immediate upper and Continue	Get medical attention immediately. Call a poison center or physiciar Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.					
Inhalation	Remove v for breath	victim to fresh air and keep a	all a poison center or physician. It rest in a position comfortable mes are still present, the rescuer elf-contained breathing				
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	apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In the event of any complaints or symptoms, avoid further exposure.
Skin contact :	Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion :	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders :	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### **Over-exposure signs/symptoms** Eye contact Adverse symptoms may include the following: pain, watering, : redness Inhalation Adverse symptoms may include the following: respiratory tract : irritation, coughing, wheezing and breathing difficulties, asthma, reduced fetal weight, increase in fetal deaths, skeletal malformations Skin contact Adverse symptoms may include the following: pain or irritation, : redness, blistering may occur, reduced fetal weight, increase in fetal deaths, skeletal malformations Ingestion : Adverse symptoms may include the following: stomach pains, reduced fetal weight, increase in fetal deaths, skeletal malformations 4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically. Contact poison treatment specialist Notes to physician : immediately if large quantities have been ingested or inhaled. Specific treatments No specific treatment. :

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

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Suitable extinguishing media Unsuitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire. None known.				
5.2 Special hazards arising from the substance or mixture						
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.				
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides, metal oxide/oxides Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides, metal oxide/oxides				
<b>5.3</b> Advice for firefighters						
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.				
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.				

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.		
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.		
6.3 Methods and materials for cont	ainme	ent and cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water- insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses,		
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> basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have
		been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold	
E1	100 t	200 t	

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#### **7.3** Specific end use(s)

Recommendations	:	Not available.
Industrial sector specific	:	Not available.
solutions		

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### **8.1** Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
4-methylpentan-2-one	EU OEL (2000-06-01). TWA 83 mg/m3 20 ppm STEL 208 mg/m3 50 ppm Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (2004-03-01).
	TWA 83 mg/m3 20 ppm STEL 208 mg/m3 50 ppm

#### **Biological exposure indices**

No exposure indices known.

# Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
cyclohexanol	DNEL	Long term	1,43 mg/kg	Workers	Systemic
		Dermal	bw/day		-
	DNEL	Long term	0,716 mg/kg	General	Systemic
		Dermal	bw/day	population	-
	DNEL	DNEL Long term 0,		General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	40,3 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term	10 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
bornan-2-one	DNEL	Long term	4,3478	General	Systemic
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		Inhalation	mg/m³	population	
	DNEL	Long term	17,6316	Workers	Systemic
		Inhalation	mg/m <sup>3</sup>		
	DNEL	Long term	5 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Long term	5 mg/kg	General	Systemic
	DNEI	Oral	bw/day	population	9
	DNEL	Long term Dermal	10 mg/kg	Workers	Systemic
rosin	DNEL	Long term	bw/day 1,0655 mg/kg	General	Systemic
105111	DNEL	Oral	bw/day	population	Systemic
	DNEL	Long term	10 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term	2,131 mg/kg	Workers	Systemic
		Dermal	bw/day		
turpentine, oil	DNEL	Short term	1,6 mg/kg	Workers	Systemic
		Dermal	bw/day		_
	DNEL	Long term	0,11 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Short term	51,6 mg/m <sup>3</sup>	Workers	Systemic
	DUE	Inhalation	10.0 / 0		
	DNEL	Short term	10,3 mg/m <sup>3</sup>	Workers	Local
		Inhalation	2.0	West	T1
	DNEL	Long term	3,9 mg/m <sup>3</sup>	Workers	Local
	DNEI	Inhalation	2.17	XX7 - 1	T1
	DNEL	Long term	3,17 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Dermal Short term	0.50 mg/ltg	General	Systemic
	DNEL	Oral	0,59 mg/kg bw/day	population	Systemic
	DNEL	Short term	0,12 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation	0,12 mg/m <sup>e</sup>	population	Systemic
	DNEL	Short term	9,51 mg/cm <sup>2</sup>	Workers	Local
	DINEL	Dermal	),51 mg/cm	WORKERS	Local
	DNEL	Long term	0,78 mg/m <sup>3</sup>	Workers	Systemic
	DIGE	Inhalation	0,70 mg/m	() officits	Systemic
	DNEL	Long term	1,17 mg/kg	Workers	Systemic
	21,22	Dermal	bw/day	() officers	2 journe
	DNEL	Long term	$0,018 \text{ mg/m}^3$	General	Systemic
		Inhalation	, 6	population	
	DNEL	Long term	0,417 mg/kg	General	Systemic
		Dermal	bw/day	population	
linalool	DNEL	Long term	3 mg/cm <sup>2</sup>	Workers	Local
		Dermal	-		
4-methylpentan-2-one	DNEL	Long term	4,2 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Short term	208 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Short term	208 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term Inhalation	83 mg/m³	Workers	Systemic
	DNEL	Long term	83 mg/m <sup>3</sup>	Workers	Local
	DINEL	Inhalation	os mg/m-	WUIKCIS	Local
	DNEL	Long term	14,7 mg/m <sup>3</sup>	General	Systemic
	DINEL		14,7 mg/m-		Systemic
		Inhalation		population	
	DNEL	Inhalation Long term	14,7 mg/m <sup>3</sup>	population General	Local

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	DNEL	Long term	11,8 mg/kg	Workers	Systemic
	DNEL	Dermal	bw/day	C 1	<b>G</b> ( )
	DNEL	Short term Inhalation	155,2 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	155,2 mg/m <sup>3</sup>	General population	Local
eugenol	DNEL	Long term Oral	3 mg/kg bw/day	General population	Systemic
	DNEL	Long term	21,2 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Inhalation Long term	5,22 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation Long term	3 mg/kg	population General	Systemic
	DNEL	Dermal Long term	bw/day 6 mg/kg	population Workers	Systemic
· .		Dermal	bw/day		-
cineole	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	600 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	7,05 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1,74 mg/m <sup>3</sup>	General population	Systemic
(R)-p-mentha-1,8-diene	DNEL	Long term	16,6 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation Long term	9,5 mg/kg	population Workers	Systemic
	DNEL	Dermal Long term	bw/day 4,8 mg/kg	General	Systemic
	DNEL	Dermal Long term	bw/day 4,8 mg/kg	population General	Systemic
	DNEL	Oral Long term	bw/day 66,7 mg/m <sup>3</sup>	population Workers	Systemic
		Inhalation	-		
pin-2(3)-ene	DNEL	Long term Dermal	0,225 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0,225 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	3,8 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	0,674 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term	0,542 mg/kg	Workers	Systemic
camphene	DNEL	Dermal Long term	bw/day 110,19	Workers	Systemic
	DNEL	Inhalation Short term	mg/m <sup>3</sup> 110,19	Workers	Systemic
	DNEL	Inhalation Long term	mg/m <sup>3</sup> 54,3 mg/m <sup>3</sup>	General	Systemic
	DNEL	Inhalation Short term	54,3 mg/m <sup>3</sup>	population General	Systemic
		Inhalation		population Workers	-
	DNEL	Short term Dermal	1,25 mg/kg bw/day		Systemic
	DNEL	Short term	0,625 mg/kg	General	Systemic

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	Dermal	bw/day	population	
DNE	L Short term Oral	0,625 mg/kg bw/day	General population	Systemic
DNE	L Long term Dermal	0,1 mg/kg bw/day	General population	Systemic
DNE	L Long term Oral	0,1 mg/kg bw/day	General population	Systemic
DNE	L Long term Dermal	0,21 mg/kg bw/day	Workers	Systemic

#### PNECs

No PNECs available.

#### 8.2 Exposure controls

Appropriate engineering controls <u>Individual protection measures</u>	:	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Hygiene measures Eye/face protection	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. It is recommended to wear a hooded visor or protective visor
		combined with airtight goggles (ref. Standard EN 166).
Skin protection		Drotast hands with astagony III work stores (ast Standard DN 274)
Hand protection	:	Protect hands with category III work gloves (ref. Standard EN 374). For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and method of use.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. In case of exceeding the threshold value (e.g. TLV-TWA) of the substance or of one or more of the substances present in the product, it is recommended to wear a mask with type AX filter whose limit of use will be defined by the manufacturer (ref standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided. The use of respiratory protection means is necessary in case the technical measures adopted are not sufficient to limit the exposure of the worker to the threshold values taken into

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> consideration. The protection offered by the masks is however limited. In the event that the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in the event of an emergency, wear an open-circuit compressed air breathing apparatus (ref. Standard EN 137) or a self-contained breathing apparatus. outdoor air (ref. EN 138 standard). For the correct choice of the respiratory protection device, refer to the EN 529 standard.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical state Color Odor Odor threshold Melting point/freezing point Initial boiling point and boiling range	:::::::::::::::::::::::::::::::::::::::	liquid [liquid] Brown. Aromatic. Not available. > 100 °C (> 212 °F)
Flammability	:	Not available.
Lower and upper explosion limit	:	<b>Lower:</b> Not available. <b>Upper:</b> Not available.
Flash point	:	63 °C (145 °F)
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
рН	:	Product is non-polar/aprotic.
Viscosity	:	<b>Dynamic</b> : Not available. <b>Kinematic</b> : Not available.
Solubility in water	:	insoluble
Partition coefficient: n- octanol/water	:	Not applicable.
Vapor pressure	:	
Relative density Vapor density Explosive properties Oxidizing properties	:	Not available. Not applicable. Not available. Not available.

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#### **Particle characteristics**

Median particle size : Not applicable.

# **SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	:	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2</b> Chemical stability	:	The product is stable.
<b>10.3</b> Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4</b> Conditions to avoid	:	No specific data.
<b>10.5</b> Incompatible materials	:	No specific data.
<b>10.6 Hazardous decomposition</b> products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
cyclohexanol				
	LD50 Oral	Rat	1.400 mg/kg	-
rosin				
	LD50 Oral	Rat	7.600 mg/kg	-
turpentine, oil				
	LD50 Oral	Rat	3.956 mg/kg	-
	LC50 Inhalation Vapor	Rat	19,9 mg/l	1 h
	LC50 Inhalation Vapor	Rat	13,7 mg/l	4 h
linalool				
	LD50 Oral	Rat	2.790 mg/kg	-
	LD50 Dermal	Rabbit	5.610 mg/kg	-
	LD50 Dermal	Rat	5.610 mg/kg	-
4-methylpentan-2-one				
	LD50 Oral	Rat	2.080 mg/kg	-
eugenol				
	LD50 Oral	Rat	1.930 mg/kg	-
cineole				
	LD50 Oral	Rat	2.480 mg/kg	-
(R)-p-mentha-1,8-diene				
	LD50 Oral	Rat	4.400 mg/kg	-

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	LD50 Dermal	Rabbit	5.000 mg/kg	-
pin-2(3)-ene				
	LD50 Oral	Rat	3.700 mg/kg	-
	LD50 Dermal	Rabbit	5.000 mg/kg	-
camphene				
	LD50 Oral	Rat	5.000 mg/kg	-
	LC50 Inhalation	Rat	17,1 mg/l	1 h
	Vapor			
	LC50 Inhalation	Rat	17,1 mg/l	4 h
	Vapor			

#### Conclusion/Summary

: Not available.

#### Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
HTL000038	4763,9 mg/kg	36071,5 mg/kg	N/A	47,2 mg/l	N/A
cyclohexanol	1400 mg/kg	N/A	N/A	11 mg/l	N/A
rosin	7600 mg/kg	N/A	N/A	N/A	N/A
turpentine, oil	500 mg/kg	1100 mg/kg	N/A	13,7 mg/l	N/A
linalool	2790 mg/kg	5610 mg/kg	N/A	N/A	N/A
4-methylpentan-2-one	500 mg/kg	N/A	N/A	N/A	N/A
eugenol	1930 mg/kg	N/A	N/A	N/A	N/A
cineole	2480 mg/kg	N/A	N/A	N/A	N/A
(R)-p-mentha-1,8-diene	4400 mg/kg	5000 mg/kg	N/A	N/A	N/A
pin-2(3)-ene	3700 mg/kg	5000 mg/kg	N/A	N/A	N/A
camphene	5000 mg/kg	N/A	N/A	N/A	N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
cyclohexanol	Skin -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
	Skin - Mild	Rabbit	-	24 hrs	-
	irritant				
	Eyes -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
	Eyes - Mild	Rabbit	-	24 hrs	-
	irritant				
	Eyes -	Rabbit	-		-
	Moderate				
	irritant				
turpentine, oil	Skin - Severe	Rabbit	-		-
	irritant				
	Skin - Severe	Human	-		-
	irritant				

linalool	Eyes -	Rabbit	-	1 hrs	-
IIIalool	Moderate	Rabbit	-	1 11 5	_
	irritant				
	Skin - Mild	Man	-	48 hrs	_
	irritant	Ivian	-	40 1115	-
	Skin - Mild	Rabbit	-	24 hrs	
	irritant	Rabbit	-	24 1115	-
	Skin - Severe	Rabbit	-	24 hrs	-
	irritant	Rabbit	-	24 1115	-
	Eyes -	Rabbit	_		-
	Moderate	Rabbit	-		
	irritant				
	Skin -	Guinea pig	_	24 hrs	-
	Moderate	Ounica pig	-	24 1113	
	irritant				
	Skin - Mild	Human	_	72 hrs	-
	irritant	Trannan		72 113	
4-methylpentan-2-one	Eyes -	Rabbit	-	24 hrs	_
+ memyipentan 2 one	Moderate	Rabbit		24 1113	
	irritant				
	Skin - Mild	Rabbit	-	24 hrs	-
	irritant	The off			
	Eyes -	Rabbit	-		_
	Severe				
	irritant				
eugenol	Skin -	Man	-	48 hrs	-
6	Moderate				
	irritant				
	Skin - Severe	Rabbit	-	24 hrs	-
	irritant				
	Skin - Mild	Pig	-	48 hrs	-
	irritant	0			
	Skin -	Guinea pig	-	24 hrs	-
	Moderate				
	irritant				
	Skin - Mild	Human	-	48 hrs	-
	irritant				
(R)-p-mentha-1,8-diene	Skin - Mild	Rabbit	-	24 hrs	-
	irritant				
pin-2(3)-ene	Skin -	Rabbit	-	24 hrs	-
• · · /	Moderate				
	irritant				
	Skin - Severe	Man	-		-
	irritant				

#### Conclusion/Summary

Skin	: Not available.	
Eyes	: Not available.	
Respiratory	: Not available.	

#### **Sensitization**

Conclusion/Summary		
Skin	:	Not available.
Respiratory	:	Not available.

#### **Mutagenicity**

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Conclusion/Summary	:	Not available.
<b>Carcinogenicity</b>		
Conclusion/Summary	:	Not available.
<u>Reproductive toxicity</u>		
Conclusion/Summary	:	Not available.
<b>Teratogenicity</b>		
Conclusion/Summary	:	Not available.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
cyclohexanol	Category 3	-	Respiratory tract irritation
dodecane-1-thiol	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
bornan-2-one	Category 1	-	-

#### Aspiration hazard

Product/ingredient name	Result
turpentine, oil	ASPIRATION HAZARD - Category 1
(R)-p-mentha-1,8-diene	ASPIRATION HAZARD - Category 1
pin-2(3)-ene	ASPIRATION HAZARD - Category 1

Information on the likely routes	:	Not available.
of exposure		

#### Potential acute health effects

Eye contact Inhalation	:	Causes serious eye damage. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physical, ch	emic	cal and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain, watering, redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation, coughing, wheezing and breathing difficulties, asthma, reduced fetal weight, increase in fetal deaths, skeletal malformations
Skin contact	:	Adverse symptoms may include the following: pain or irritation, redness, blistering may occur, reduced fetal weight, increase in fetal deaths, skeletal malformations
Ingestion	:	Adverse symptoms may include the following: stomach pains, reduced fetal weight, increase in fetal deaths, skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

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#### Short term exposure

Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Not available.
General	:	Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	:	May damage fertility or the unborn child.

### **11.2.** Information on other hazards

<b>11.2.1</b> Endocrine disrupting properties	:	Not available.
<b>11.2.2</b> Other information	:	Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
cyclohexanol	·	· - =	
	Acute LC50 704 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
linalool			-
	Acute LC50 28,8 mg/l Fresh	Fish - Oncorhynchus mykiss	96 h
	water		
	Acute EC50 36,7 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
4-methylpentan-2-one			
	Acute LC50 505 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
	Chronic NOEC 168 mg/l Fresh	Fish - Pimephales promelas	33 d
	water		
	Chronic NOEC 78 mg/l Fresh	Daphnia - Daphnia magna	21 d
	water		
eugenol			
	Acute LC50 24 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
cineole			
	Acute LC50 102 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
(R)-p-mentha-1,8-diene			
	Acute EC50 0,688 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		

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	Acute EC50 0,421 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
pin-2(3)-ene			
	Acute LC50 5,28 mg/l Fresh	Fish - Lepomis macrochirus	96 h
	water		
	Acute LC50 41 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
camphene			
	Acute LC50 1,17 mg/l Fresh	Fish - Lepomis macrochirus	96 h
	water		
	Acute LC50 22 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
	Acute EC50 214 mg/l Marine	Algae - Skeletonema	96 h
	water	costatum	

Conclusion/Summary

Not available.

:

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
cyclohexanol	1,21,25	-	low	
bornan-2-one	2,38	-	low	
rosin	1,9 - 7,7	-	high	
dodecane-1-thiol	6,5	-	high	
linalool	2,84	-	low	
4-methylpentan-2-one	1,9	-	low	
eugenol	2,27	-	low	
cineole	2,74	-	low	
(R)-p-mentha-1,8-diene	4,57	-	high	
pin-2(3)-ene	4,487	-	high	
camphene	-	954,99	high	

#### 12.4 Mobility in soil

Soil/water partition coefficient	:	Not available.		
(KOC)				
Mobility	:	Not available.		
12.5 Results of PBT and vPvB assessment				

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties : Not available.
12.7 Other adverse effects : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

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#### **13.1** Waste treatment methods

<u>Product</u>	
Methods of disposal Hazardous waste	<ul> <li>The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.</li> <li>The classification of the product may meet the criteria for a hazardous waste.</li> </ul>
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging		European waste catalogue (EWC)
	15 01 10*	packaging containing residues of or contaminated by
		hazardous substances
Special precautions	: Т	his material and its container must be disposed of in a safe way.

:	This material and its container must be disposed of in a safe way.
	Care should be taken when handling emptied containers that have
	not been cleaned or rinsed out. Empty containers or liners may retain
	some product residues. Avoid dispersal of spilled material and
	runoff and contact with soil, waterways, drains and sewers.
	:

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN3082	UN3082	UN3082
<b>14.2</b> UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (rosin, turpentine, oil)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (rosin, turpentine, oil)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (rosin, turpentine, oil)
14.3 Transport hazard class(es)			
14.4 Packing group	Ш	III	Ш
14.5. Environmental hazards	Yes.	Yes.	Yes.

Additional information	
ADR/RID	: This product is not regulated as a dangerous good when transported
	in sizes of $\leq 5$ L or $\leq 5$ kg, provided the packagings meet the general

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		provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Tunnel code</u> (-)
ADN	:	This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L or $\leq 5$ kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
IMDG	:	This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L or $\leq 5$ kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
IATA	:	This product is not regulated as a dangerous good when transported in sizes of $\leq 5$ L or $\leq 5$ kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
<b>14.6</b> Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
<b>14.7</b> Transport in bulk according to IMO instruments	:	Not available.

## **SECTION 15: Regulatory information**

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization Annex XIV None of the components are listed.

:

#### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Restricted to professional users.

#### **Other EU regulations**

Industrial emissions (integrated : Listed pollution prevention and control) - Air Industrial emissions (integrated : Not listed pollution prevention and control) - Water <u>Ozone depleting substances (1005/2009/EU)</u> None of the components are listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

#### Persistent Organic Pollutants

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None of the components are listed.

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### **Danger criteria**

Category E1

#### National regulations

#### **International regulations**

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

**Chemical Weapons Convention List Schedule I Chemicals** None of the components are listed.

**Chemical Weapons Convention List Schedule II Chemicals** None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals None of the components are listed.

#### **Montreal Protocol**

None of the components are listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

#### **Annex A - Elimination - Production**

None of the components are listed.

#### Annex A - Elimination - Use

None of the components are listed.

#### Annex B - Restriction - Production

None of the components are listed.

#### Annex B - Restriction - Use

None of the components are listed.

#### Annex C - Unintentional - Production

None of the components are listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

#### **Rotterdam Convention on Prior Informed Consent (PIC) - Industrial** None of the components are listed.

# Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

#### Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide None of the components are listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

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### Heavy metals - Annex 1

None of the components are listed.

#### **POPs - Annex 1 - Production**

None of the components are listed.

#### POPs - Annex 1 - Use

None of the components are listed.

#### POPs - Annex 2

None of the components are listed.

#### POPs - Annex 3

None of the components are listed.

#### **Inventory list**

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined.
•		Japan inventory (ISHL): Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkev	:	Not determined.
United States	:	At least one component is inactive.
Viet Nam	:	Not determined.
5.2 Chaminal Safata Assassment		This product contains substances for which Chemical S

**15.2** Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other information**

Abbreviations and acronyms	:	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group
		vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	Calculation method

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Eye Dam. 1, H318	Calculation method
Resp. Sens. 1, H334	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360	Calculation method
STOT SE 3, H335 (Respiratory tract irritation)	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

#### **Full text of abbreviated H statements**

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H228	Flammable solid.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if
	inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

#### Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Aquatic Chronic 4	AQUATIC HAZARD (LONG-TERM) - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Flam. Sol. 2	FLAMMABLE SOLIDS - Category 2
Met. Corr. 1	CORROSIVE TO METALS - Category 1
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B
Resp. Sens. 1	RESPIRATORY SENSITIZATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1

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Skin Sens. 1B	SKIN SENSITIZATION - Category 1B	
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -	
	Category 1	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -	
	Category 3	
Date of printing Date of issue/ Date of revision Date of previous issue	: 07.07.2023 : 13.06.2023 : 26.04.2023	
Version	: 3.0	

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