## **COLOROBBIA**

## SAFETY DATA SHEET

COLOROBBIA ITALIA					HTL0	000004
S.P.A.						
Date of printing	:	22.10.2024	Date of issue	:	06.07.2024	Issue/Revision : 4.0

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Italy

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

#### 1.1 Product identifier

Product name : HTL--000004

UFI : 4KG3-K0TP-A00D-UE38

Product code : 00000000010057860
Other means of identification : HTL--00004-H002

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

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

firing decoration in the glass/ceramics/porcelain sectors

## Uses advised against

Not applicable.

## 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 responsible for this SDS 1.4 Emergency telephone number QHSE@colorobbia.it

## National advisory body/Poison Center

**Telephone number** : +39 011 6637637 (Torino), +39 02 66101029 (Milano), +39 0382

24444; (Pavia). +39 049 8275078 (Padova), +390105636245 (Genova), +39055 4277238 (Firenze), +39 06 30.54343 (Roma),

+39 06 49970698 (Roma), +39081 7472870 (Napoli)



## **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 Skin Sens. 1, H317 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 : Danger

**Hazard statements** : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H372 Causes damage to organs through prolonged or repeated

exposure.

H410 Very toxic to aquatic life with long lasting effects.

## **Precautionary statements**

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**: P280 - Wear protective gloves. P280 - Wear eye or face protection.

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 handling.

**Response**: P391 - Collect spillage. P314 - Get medical advice or attention if you

feel unwell. 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** : Not applicable.

**Disposal**: P501 - Dispose of contents and container in accordance with all



local, regional, national and international regulations.

**Hazardous ingredients** bornan-2-one

rosin

formaldehyde, reaction products with butylphenol

eugenol turpentine, oil dodecane-1-thiol

linalool (E)-anethole

4-methylpentan-2-one

cineole

Eucalyptus globulus, ext. (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

Not applicable.

**Special packaging requirements** 

Containers to be fitted with child-resistant fastenings

Yes, applicable.

Tactile warning of danger

Yes, applicable.

## 2.3 Other hazards

for PBT or vPvB

Product meets the criteria: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

according to Regulation (EC) No. 1907/2006,

**Annex XIII** 

Other hazards which do

: None known.

not result in classification

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

#### 3.2 Mixtures Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M- factors and ATEs	Туре
bornan-2-one	EC: 200-945-0 CAS: 76-22-2		Flam. Sol. 2, H228 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Chronic 4, H413	-	[1]
rosin		>= 10 - <= 25	Met. Corr. 1, H290	M [Acute] = 100	[1]

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	EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7		Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Chronic] = 10	
cyclohexanol	EC: 203-630-6 CAS: 108-93-0 Index: 603-009-00-3	>= 10 - < 20	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]
formaldehyde, reaction products with butylphenol	EC: 294-145-9 CAS: 91673-30-2 Index: 605-021-00-4	> 0 - <= 10	Skin Sens. 1, H317	-	[1]
eugenol	EC : 202-589-1 CAS : 97-53-0	> 0 - <= 10	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1, H317	ATE [Oral] = 1.930 mg/kg	[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]
dodecane-1-thiol	EC: 203-984-1 CAS: 112-55-0	> 0 - < 1	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]
(E)-anethole	EC: 224-052-0 CAS: 4180-23-8	> 0 - < 1	Skin Sens. 1, H317	-	[1]
4-methylpentan-2-one	EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	> 0 - < 0,3	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 (Narcotic effects)	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
cineole	EC: 207-431-5	> 0 - <= 0,3	Flam. Liq. 3, H226 Skin Sens. 1, H317	-	[1]



	CAS: 470-82-6				
Eucalyptus globulus, ext.	EC : 283-406-2 CAS : 84625-32-1	> 0 - <= 0,3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[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

: Get medical attention immediately. Call a poison center or physician. 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 victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing 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.



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** 

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** : No specific data.

**Skin contact** : Adverse symptoms may include the following: pain or irritation,

redness, blistering may occur

**Ingestion** : Adverse symptoms may include the following: stomach pains

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## **SECTION 5: Firefighting measures**

## **5.1** Extinguishing media

Suitable extinguishing media
Unsuitable extinguishing media

## 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or if heated, a pressure increase will occur and the container mixture 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 Decomposition products may include the following materials: carbon dioxide, carbon monoxide

## **5.3** 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 b

: 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 containment 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, 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 should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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

## 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	Type	Exposure	Value	Population	Effects
bornan-2-one	DNEL	Long term	4,3478	General	Systemic
		Inhalation	mg/m³	population	
	DNEL	Long term	17,6316	Workers	Systemic
		Inhalation	mg/m³		
	DNEL	Long term	5 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Long term	5 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	10 mg/kg	Workers	Systemic
		Dermal	bw/day		-
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	Long term	0,716 mg/kg	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	
rosin	DNEL	Long term	1,0655 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term Inhalation	10 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term	2,131 mg/kg	Workers	Systemic
		Dermal	bw/day		
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
	-1,22	Inhalation	,	/	
	DNEL	Long term	5,22 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	3 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Long term	6 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
		Inhalation			
	DNEL	Short term	10,3 mg/m <sup>3</sup>	Workers	Local
	DNEI	Inhalation	2.0 / 3	XX7 1	T 1
	DNEL	Long term Inhalation	3,9 mg/m <sup>3</sup>	Workers	Local
	DNEL		2 17 mg/om2	Workers	Local
	DNEL	Long term Dermal	3,17 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Short term	0,59 mg/kg	General	Systemic
	DNEL	Oral	bw/day	population	Systemic
	DNEL	Short term	$0.12 \text{ mg/m}^3$	General	Systemic
	DIVEE	Inhalation	0,12 mg/m	population	Systemic
	DNEL	Short term	9,51 mg/cm <sup>2</sup>	Workers	Local
	DIVL	Dermal	,,51 mg/cm	,, orkors	Local
	DNEL	Long term	0,78 mg/m <sup>3</sup>	Workers	Systemic
	21,22	Inhalation	o,, o mg, m	, v orners	
	DNEL	Long term	1,17 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Long term	$0.018 \text{ mg/m}^3$	General	Systemic
		Inhalation		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			
(E)-anethole	DNEL	Long term	3 mg/kg	Workers	Systemic
		Dermal	bw/day		



	DNEL	Long term	1,5 mg/kg	General	Systemic
	DIVEL	Dermal	bw/day	population	Bysteine
	DNEL	Long term	1,5 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	2,61 mg/m <sup>3</sup>	General	Systemic
		Inhalation	,	population	
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	83 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term	83 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term	14,7 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	14,7 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Long term	11,8 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Short term	155,2 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Short term	155,2 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
cineole	DNEL	Long term	1 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Long term	600 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	$7,05 \text{ mg/m}^3$	Workers	Systemic
	DATE	Inhalation		*** 1	
	DNEL	Long term	2 mg/kg	Workers	Systemic
	DATE	Dermal	bw/day	G 1	
	DNEL	Long term	1,74 mg/m <sup>3</sup>	General	Systemic
F11-1 -1	DNEI	Inhalation	2.52 /3	population	G
Eucalyptus globulus, ext.	DNEL	Long term	$3,52 \text{ mg/m}^3$	Workers	Systemic
	DNEI	Inhalation	1 //	3371	G
	DNEL	Long term	1 mg/kg	Workers	Systemic
	DNEI	Dermal	bw/day	Cananal	Cti-
	DNEL	Long term Dermal	0,5 mg/kg	General	Systemic
	DNEL		bw/day 0,5 mg/kg	population General	Systemic
	DNEL	Long term			Systemic
	DNEI	Oral	bw/day	population	Cti-
	DNEL	Long term	0,87 mg/m <sup>3</sup>	General	Systemic
(D) = months 1 0 1!	DNE	Inhalation	16.63	population	Crysta:-
(R)-p-mentha-1,8-diene	DNEL	Long term	16,6 mg/m <sup>3</sup>	General	Systemic
	DNET	Inhalation	0.5 m = /1-=	population	Crysta:-
	DNEL	Long term	9,5 mg/kg	Workers	Systemic
	DNE	Dermal	bw/day	Camaral	Crysta:-
	DNEL	Long term	4,8 mg/kg	General	Systemic
	DNET	Dermal Long torm	bw/day	population	Crysta ! -
	DNEL	Long term	4,8 mg/kg	General	Systemic



		Oral	bw/day	population	
	DNEL	Long term Inhalation	66,7 mg/m <sup>3</sup>	Workers	Systemic
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/m³	Workers	Systemic
	DNEL	Long term Inhalation	0,674 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0,542 mg/kg bw/day	Workers	Systemic
camphene	DNEL	Long term Inhalation	110,19 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	110,19 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	54,3 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	54,3 mg/m³	General population	Systemic
	DNEL	Short term Dermal	1,25 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	0,625 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0,625 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0,1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0,1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0,21 mg/kg bw/day	Workers	Systemic

#### **PNECs**

No PNECs available.

## **8.2** Exposure controls

**Appropriate engineering controls** 

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.

## **Individual protection measures**

Hygiene measures

: 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.

**Eye/face protection** 

: It is recommended to wear a hooded visor or protective visor combined with airtight goggles (ref. Standard EN 166).



## Skin protection

**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 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 : liquid [liquid]
Color : Brown.



range

 $\begin{tabular}{lll} Flammability & : & Non-flammable. \\ \begin{tabular}{lll} Lower and upper explosion limit & : & Lower: 59 \%(V) \\ \end{tabular}$ 

**Upper:** 65 %(V)



:

Flash point

T 19 4	
Ingredient name	Flash point
ethyl acetate	Closed cup: -4 °C (25 °F)
toluene	Closed cup: 4,4 °C (39,9 °F)
ethanol	Closed cup: 9,7 °C (49,5 °F) (Abel-Pensky)
propan-2-ol	Closed cup: 12 °C (54 °F) Closed cup: 11,67 °C (53,01 °F)
xylene	Closed cup: 18 °C (64 °F) 32 °C (90 °F) 27 °C (81 °F)
4-methylpentan-2-one	Closed cup: 22,78 °C (73,00 °F)
camphene	Closed cup: 29,5 °C (85,1 °F)
pin-2(3)-ene	Closed cup: 31 °C (88 °F) (EU A.9)
(-)-pin-2(3)-ene	Closed cup: 31,3 °C (88,3 °F)
turpentine, oil	Closed cup: 34 °C (93 °F) (EU A.9)
pin-2(10)-ene	Closed cup: 39 °C (102 °F) (EU A.9)
cyclohexanone	Closed cup: 44 °C (111 °F)
p-mentha-1,5-diene	46 °C (115 °F)
cineole	47 - 48 °C (117 - 118 °F)
1-isopropyl-4-methylbenzene	Closed cup: 47 °C (117 °F)
reneighte mentilla-1,8-diene Date of	f previous is using: 13:1% 202124 °F) (EU A.9)

Version: 4.0 Date of issue/Date of

f	renisjon: mentha: 4,8-diene Date of p	<i>rev</i> egus <u>istue</u> up: 13:1% 202124
	STO COLOROLLE	°F) (EU A.9)
	p-mentha 1,4(8)-diene	Closed cup: 61 °C (142 °F)
	bornan-2-one	Closed cup: 66 °C (151
		°F)
		Closed cup: 65,56 °C

## Auto-ignition temperature

Ingredient name	Auto-ignition
	temperature
turpentine, oil	220 - 255 °C (428 - 491
	°F)
linalool	235 °C (455 °F)
(R)-p-mentha-1,8-diene	237 °C (459 °F)
pin-2(3)-ene	255 °C (491 °F)
cyclohexanol	300 °C (572 °F) 285 °C
	(545 °F)
4-methylcyclohexanol, mixed	295 °C (563 °F)
isomers	
cineole	300 °C (572 °F)
propan-2-ol	398,89 °C (750,00 °F)
3-methoxybutyl acetate	410 °C (770 °F)
cyclohexanone	420 °C (788 °F)
ethyl acetate	426,67 °C (800,01 °F)
formaldehyde	430 °C (806 °F)
xylene	432 °C (810 °F)
1-isopropyl-4-methylbenzene	435 °C (815 °F)
benzyl alcohol	436 °C (817 °F)
ethanol	455 °C (851 °F) (DIN
	51794)
bornan-2-one	466 °C (871 °F)
toluene	480 °C (896 °F)

**Decomposition temperature** : Not available.

**pH** : Product is non-polar/aprotic.

Viscosity : Dynamic : Not available.

**Kinematic :** 80 mm2/s @ 30 °C (86 °F)

**Solubility in water** : insoluble

Partition coefficient: n-

octanol/water

Not applicable. The product is a mixture



## Vapor pressure

:

Ingredient name	Vapor pressure
formaldehyde	5.181 hPa (@ 25 °C) (77 °F) 1,2 hPa (@ 20 °C) (68 °F)
ethyl acetate	108,78 hPa (@ 22,02 °C) (71,64 °F)
ethanol	57,26 hPa (@ 19,6 °C) (67,3 °F)
propan-2-ol	44 hPa (@ 20 °C) (68 °F)
toluene	30,8885114 hPa (@ 21,11 °C) (70,00 °F)
4-methylpentan-2-one	21 hPa (@ 20 °C) (68 °F)
xylene	8,93 hPa (@ 21 °C) (70 °F)
pin-2(3)-ene	8,51 hPa (@ 25 °C) (77 °F) (EU A.4) 6,9 hPa (@ 20 °C) (68 °F) (OECD 104)
(-)-pin-2(3)-ene	8,51 hPa (@ 25 °C) (77 °F) 6,9 hPa (@ 20 °C) (68 °F)
turpentine, oil	6,69 hPa (@ 25 °C) (77 °F) (EU A.4) 26 hPa (@ 25 °C) (77 °F) 5,19 hPa (@ 20 °C) (68 °F) (OECD 104)
cyclohexanone	5 hPa (@ 20 °C) (68 °F)
pin-2(10)-ene	3,54 hPa (@ 25 °C) (77 °F) (EU A.4) 2,73 hPa (@ 20 °C) (68 °F) (OECD 104)
dodecane-1-thiol	3,3 hPa (@ 25 °C) (77 °F)
(R)-p-mentha-1,8-diene	2 hPa (@ 24,85 °C) (76,73 °F)
1-isopropyl-4-methylbenzene	2 hPa (@ 20 °C) (68 °F)
p-mentha-1,4(8)-diene	1,33 hPa (@ 25 °C) (77 °F) 1,01 hPa (@ 20 °C) (68 °F)
cyclohexanol	1,3 hPa (@ 20 °C) (68 °F) 1,33 hPa
cineole	1,22 hPa (@ 20 °C) (68 °F)
bornan-2-one revision: 06.07.2024 Date of	0,87 hPa (@ 25 °C) (77 presipus issue: 13.06.2023
3-methoxybuty), acetate	5 hPa (@ 50 °C) (122 °F) (OECD 104) 0,34 hPa (@ 20 °C) (68 °F) (OECD 104) 0,58 hPa (@ 25 °C) (77 °F) (OECD 104)

Version: 4.0

Date of issue/Date of

f	bornan-2-one revision: 06.07.2024 Date of p	0,8/ hPa (@ 25 °C) (7/ previous issue: 13.06.2023
	3-methoxybutyl acetate	5 hPa (@ 50 °C) (122 °F) (OECD 104) 0,34 hPa (@ 20 °C) (68 °F) (OECD 104) 0,58 hPa (@ 25 °C) (77 °F) (OECD 104)
	benzyl alcohol	0,33 hPa (@ 25 °C) (77 °F) 0,07 hPa (@ 20 °C)

(68 °F)

0,98 Relative density

0,85 - 1,1 g/cm3 Density Not available. Vapor density **Explosive properties** Not available. **Oxidizing properties** Not available.

**Particle characteristics** 

Median particle size Not applicable.

## **SECTION 10: Stability and reactivity**

**10.1** Reactivity No specific test data related to reactivity available for this product or

its ingredients.

**10.2** Chemical stability The product is stable.

10.3 Possibility of hazardous Under normal conditions of storage and use, hazardous reactions reactions

will not occur.

No specific data. **10.4** Conditions to avoid

**10.5** Incompatible materials No specific data.

Under normal conditions of storage and use, hazardous 10.6 Hazardous decomposition decomposition products should not be produced.

products

## **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	-
eugenol				
	LD50 Oral	Rat	1.930 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	-
(E)-anethole				
	LD50 Oral	Rat	2.090 mg/kg	-
4-methylpentan-2-one	•			
- <del>-</del>	LD50 Oral	Rat	2.080 mg/kg	-
cineole	•	•		•
	LD50 Oral	Rat	2.480 mg/kg	-
(R)-p-mentha-1,8-diene	2			
· • • • • • • • • • • • • • • • • • • •	LD50 Oral	Rat	4.400 mg/kg	-
	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 Vapor	Rat	17,1 mg/l	1 h
	LC50 Inhalation Vapor	Rat	17,1 mg/l	4 h

**Conclusion/Summary** : Not available.

## Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
HTL000004-H002	4479,5 mg/kg	29640 mg/kg	N/A	57,1 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
eugenol	1930 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
(E)-anethole	2090 mg/kg	N/A	N/A	N/A	N/A
4-methylpentan-2-one	500 mg/kg	N/A	N/A	11 mg/l	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
Version: 4.0 Do	te of issue/Date of revi	ision: 06.07.2024	Dat	te of previous issue:	13.06.2023



	1		1		1
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				
eugenol	Skin -	Man	-	48 hrs	-
	Moderate				
	irritant				
	Skin - Severe	Rabbit	-	24 hrs	-
	irritant				
	Skin - Mild	Pig	-	48 hrs	-
	irritant				
	Skin -	Guinea pig	_	24 hrs	-
	Moderate				
	irritant				
	Skin - Mild	Human	_	48 hrs	_
	irritant	Tranian		10 ms	
turpentine, oil	Skin - Severe	Rabbit	_		-
turpentine, on	irritant	Rubbit			
	Skin - Severe	Human	-		_
	irritant	Truman			
linalool	Eyes -	Rabbit	-	1 hrs	-
maiooi	Moderate	Kabbit		1 1113	
	irritant				
	Skin - Mild	Man	_	48 hrs	_
	irritant	Iviaii	_	40 1118	_
	Skin - Mild	Rabbit		24 hrs	
	irritant	Kabbit	-	24 1118	-
		Dobbit		24 hms	
	Skin - Severe	Rabbit	-	24 hrs	-
	irritant	Dabbit			
	Eyes -	Rabbit	-		-
	Moderate				
	irritant			241	
	Skin -	Guinea pig	-	24 hrs	-
	Moderate				
	irritant	ļ			
	Skin - Mild	Human	-	72 hrs	-
	irritant				
4-methylpentan-2-one	Eyes -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
	Skin - Mild	Rabbit	-	24 hrs	-
	irritant				
	Eyes -	Rabbit	-		-
	Severe				



	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** 

SkinNot available.RespiratoryNot available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

**Conclusion/Summary** : Not available.

**Reproductive toxicity** 

**Conclusion/Summary** : Not available.

**Teratogenicity** 

**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** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following: pain, watering,

redness

**Inhalation** : No specific data.

**Skin contact**: Adverse symptoms may include the following: pain or irritation,

redness, blistering may occur

**Ingestion** : Adverse symptoms may include the following: stomach pains

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

## **Short term exposure**

Potential immediate effects : Not available.
Potential delayed effects : Not available.

## Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : 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.

Reproductive toxicity : No known significant effects or critical hazards.

#### 11.2. Information on other hazards

**11.2.1 Endocrine disrupting properties** : Not available. **11.2.2 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	-	
eugenol	water		
eugenor	Acute LC50 24 mg/l Fresh	Fish - Pimephales promelas	96 h
	water	Fish - Filiephales profiletas	90 11
linalool	water		
Illiaiooi	A	Figh On an about the contribution	061
	Acute LC50 28,8 mg/l Fresh	Fish - Oncorhynchus mykiss	96 h
	water Acute EC50 36,7 mg/l Fresh	Danhaia Danhaia masaa	48 h
		Daphnia - Daphnia magna	48 n
(E)(1, 1,	water		
(E)-anethole	A . EG50 4.01 / / / / /	F: 1 B: 1 1	0.61
	Acute EC50 4,81 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		10.1
	Acute EC50 4,25 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		0.51
	Acute IC50 9,313 mg/l Fresh	Algae - Pseudokirchneriella	96 h
	water	subcapitata	
4-methylpentan-2-one	1	1	_
	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		
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		
	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	r	
	Acute EC50 214 mg/l Marine	Algae - Skeletonema	96 h
	water	costatum	1
	,, 4101		1

**Conclusion/Summary** : Not available.

## 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

## 12.3 Bioaccumulative potential



Product/ingredient name	LogPow	BCF	Potential	
bornan-2-one	2,38	-	low	
cyclohexanol	1,21,25	-	low	
rosin	1,9 - 7,7	-	high	
eugenol	2,27	-	low	
dodecane-1-thiol	6,5	-	high	
linalool	2,84	-	low	
4-methylpentan-2-one	1,9	-	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 :

(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.

Not available.

## **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).

## 13.1 Waste treatment methods

## **Product**

**Methods of disposal** : 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.

**Hazardous waste**: The classification of the product may meet the criteria for a

hazardous waste.

## **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**

: 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
14.2 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)	9	9	9
14.4 Packing group	Ш	III	III
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 provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.  Tunnel code (-)
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.

**14.6** 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.

14.7 Transport in bulk according

Not available.

to IMO instruments

## **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

Not applicable.

## **Other EU regulations**

**Industrial emissions (integrated** 

Not listed

pollution prevention

and control) - Air

**Industrial emissions (integrated** Not listed

pollution prevention and control) - Water

## Ozone depleting substances (1005/2009/EU)

None of the components are listed.

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

None of the components are listed.

## **Persistent Organic Pollutants**

None of the components are listed.

#### **Seveso Directive**

This product is controlled under the Seveso Directive.

## **Danger criteria**

Category

## **National regulations**

D.Lgs. 152/06 Not determined.

**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**

## **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. Not determined. Republic of Korea **Taiwan** Not determined. Thailand Not determined. **Turkey** Not determined. **United States** Not determined. Viet Nam Not determined.

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	
Eye Dam. 1, H318	Calculation method	
Skin Sens. 1, H317	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
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

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