

SAFETY DATA SHEET

COLOROBE S.P.A.	BIA I	TALIA			HTL0	00037		
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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 UFI	:	HTL000037 4JH3-50E1-P00U-45GY
Product code Other means of identification	:	000000000010057905 HTL000037-H009

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 : <u>QHSE@colorobbia.it</u> responsible for this SDS 1.4 Emergency telephone number

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)

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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 Skin Sens. 1, H317 Repr. 2, H361 Aquatic Chronic 3, H412

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	 Warning H315 Causes skin irritation. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H412 Harmful to aquatic life with long lasting effects. 	
Precautionary statement		
General	: P103 - Read carefully and follow all instructions.P102 - Kee reach of children.P101 - If medical advice is needed, have pr container or label at hand.	
Prevention	 P201 - Obtain special instructions before use. P280 - Wear p gloves, protective clothing, eye protection, face protection, o protection. P273 - Avoid release to the environment. P261 - breathing vapor. P264 - Wash your hands thoroughly after us (especially parts of the body that may have been in contact w product). 	or hearing Avoid se
Response	 P308 - IF exposed or concerned: P308 + P313 - Get medical or attention. P362 + P364 - Take off contaminated clothing a it before reuse. P302 - IF ON SKIN: P302 + P352 - Wash with of water. P333 - If skin irritation or rash occurs: P333 + P31, medical advice or attention. 	and wash ith plenty
Storage	: P405 - Store locked up.	
Disposal	: P501 - Dispose of contents and container in accordance with local, regional, national and international regulations.	ı all
Hazardous ingredients	: 2-ethylhexanoic acid, iron salt turpentine, oil eugenol	
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		bornan-2-one dodecane-1-thiol linalool 4-methylpentan-2-one
		cineole
		(R)-p-mentha-1,8-diene
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	:	Not applicable.
child-resistant fastenings		
Tactile warning of danger	:	Yes, applicable.

2.3 Other hazards

Product meets the criteria
for PBT or vPvB: 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
not result in classification: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	:	Mixture			
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 - <= 19	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]
2-ethylhexanoic acid, iron salt	EC : 243-169-8 CAS : 19583-54-1	> 0 - <= 5	Acute Tox. 4, H302 Repr. 2, H361	ATE [Oral] = 500 mg/kg	[1]
turpentine, oil	EC : 232-350-7 CAS : 8006-64-2 Index: 650-002-00-6	> 0 - <= 3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1.100 mg/kg ATE [Inhalation (vapours)] = 13,7 mg/l	[1]

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			Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411		
Acrylic polymers	CAS : 9065-11-6	> 0 - <= 3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Oral] = 500 mg/kg	[1]
eugenol	EC : 202-589-1 CAS : 97-53-0	> 0 - <= 2,9	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1, H317	ATE [Oral] = 1.930 mg/kg	[1]
bornan-2-one	EC : 200-945-0 CAS : 76-22-2	> 0 - < 1	Flam. Sol. 2, H228 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Chronic 4, H413	-	[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]
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 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]

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.

[1] Substance classified with a health or environmental hazard

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Type

[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	:	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. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention. 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	:	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. Get medical attention. 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. Get medical attention. 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. 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	<u>8</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation, redness, reduced fetal weight, increase in fetal deaths, skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

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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
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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	subst	ance 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 harmful 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 For emergency responders	 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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 Version: 8.1 Date of issue	 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 Date of revision: 09.11.2024 Date of previous issue: 06.07.2024



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if released in large quantities.

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. 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 ingest. Avoid breathing vapor or mist. 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

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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.

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 : 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/i	ngredient name	Туре	Exposure	Value	Population	Effects
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			State of the state			

cyclohexanol	DNEL	Long term Dermal	1,43 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0,716 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0,716 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	40,3 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	10 mg/m ³	General population	Systemic
2-ethylhexanoic acid, iron salt	DNEL	Long term Oral	0,18 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0,16 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	0,64 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	0,36 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0,18 mg/kg bw/day	General population	Systemic
turpentine, oil	DNEL	Short term Dermal	1,6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0,11 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	51,6 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	10,3 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	3,9 mg/m ³	Workers	Local
	DNEL	Long term Dermal	3,17 mg/cm ²	Workers	Local
	DNEL	Short term Oral	0,59 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0,12 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	9,51 mg/cm ²	Workers	Local
	DNEL	Long term Inhalation	0,78 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	1,17 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0,018 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0,417 mg/kg bw/day	General population	Systemic
eugenol	DNEL	Long term Oral	3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	21,2 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	5,22 mg/m ³	General population	Systemic
	DNEL	Long term	3 mg/kg	General	Systemic

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		Dermal	bw/day	population	
	DNEL	Long term	6 mg/kg	Workers	Systemic
		Dermal	bw/day		
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		
linalool	DNEL	Long term	3 mg/cm ²	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 ³	Workers	Systemic
		Inhalation	-		-
	DNEL	Short term	208 mg/m ³	Workers	Local
		Inhalation	C		
	DNEL	Long term	83 mg/m ³	Workers	Systemic
		Inhalation	U		5
	DNEL	Long term	83 mg/m ³	Workers	Local
		Inhalation	0		
	DNEL	Long term	14,7 mg/m ³	General	Systemic
		Inhalation	, · · · · · ·	population	
	DNEL	Long term	14,7 mg/m ³	General	Local
		Inhalation	,8	population	
	DNEL	Long term	11,8 mg/kg	Workers	Systemic
		Dermal	bw/day	() officers	Systemic
	DNEL	Short term	155,2 mg/m ³	General	Systemic
		Inhalation	100, 2 mg m	population	Systemic
	DNEL	Short term	155,2 mg/m ³	General	Local
	DIVEL	Inhalation	155,2 mg m	population	Loou
cineole	DNEL	Long term	1 mg/kg	General	Systemic
emeore	DITEL	Dermal	bw/day	population	Bystellite
	DNEL	Long term	600 mg/kg	General	Systemic
	DIVEL	Oral	bw/day	population	Systemic
	DNEL	Long term	7,05 mg/m ³	Workers	Systemic
	DIVLL	Inhalation	7,05 mg/m	WOIKEIS	Systemic
	DNEL	Long term	2 mg/kg	Workers	Systemic
	DINEL	Dermal	bw/day	WOIKCIS	Systemic
	DNEL	Long term	1,74 mg/m ³	General	Systemic
	DINEL	Inhalation	1,7 - 111g/111	population	Systemic
(R)-p-mentha-1,8-diene	DNEL	Long term	16,6 mg/m ³	General	Systemic
(iv)-p-menuia-1,o-ulene	DINEL	Inhalation	10,0 mg/m	population	Systemic
	DNEI		0.5 mg/l-2	Workers	Sustania
	DNEL	Long term	9,5 mg/kg	workers	Systemic
	DNE	Dermal	bw/day	Contract	C
	DNEL	Long term	4,8 mg/kg	General	Systemic
	DNE	Dermal	bw/day	population	G
	DNEL	Long term	4,8 mg/kg	General	Systemic
		Oral	bw/day	population	

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DNEL	Long term Inhalation	66,7 mg/m ³	Workers	Systemic
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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

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Environmental exposure controls	:	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. 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.
		filters or engineering modifications to the process equipment will be

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	:	liquid [liquid] Brown
Odor Odor threshold Melting point/freezing point Initial boiling point and boiling		Aromatic. Not available. < 10 °C (< 50 °F) > 100 °C (> 212 °F)
range Flammability	:	Non-flammable.
Lower and upper explosion limit	:	Lower: 60 %(V) Upper: 66 %(V)
Flash point	:	63 °C (145 °F)

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Auto-ignition	temperature
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Ingredient name	Auto-ignition
Ingreutent name	
tormonting all	temperature
turpentine, oil	220 - 255 °C (428 - 491
	°F)
linalool	235 °C (455 °F)
	, <i>,</i> ,
(R)-p-mentha-1,8-diene	237 °C (459 °F)
pin-2(3)-ene	255 °C (491 °F)
	× ,
Naphtha (petroleum),	280 - 470 °C (536 - 878
hydrotreated heavy	°F)
cyclohexanol	300 °C (572 °F) 285 °C
	(545 °F)
	· · · ·
4-methylcyclohexanol, mixed	295 °C (563 °F)
isomers	
cineole	300 °C (572 °F)
cineoie	300 C (372 F)
2-ethylhexanoic acid	310 °C (590 °F)
	209 90 °C (750 00 °E)
propan-2-ol	398,89 °C (750,00 °F)
3-methoxybutyl acetate	410 °C (770 °F)
xylene	432 °C (810 °F)
1-isopropyl-4-methylbenzene	435 °C (815 °F)
Rosin, oligomers	> 400 °C (> 752 °F)
ethanol	455 °C (851 °F) (DIN
	51794)
	,
bornan-2-one	466 °C (871 °F)

Decomposition temperature pH Viscosity	: : :	Not available. Product is non-polar/aprotic. Dynamic : Not available. Kinematic : 80 mm2/s @ 30 °C (86 °F)
Solubility in water Partition coefficient: n- octanol/water	:	insoluble Not applicable. The product is a mixture

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Vapor p	ressure
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:	Ingredient name	Vapor pressure
	ethanol	57,26 hPa (@ 19,6 °C) (67,3 °F)
	propan-2-ol	44 hPa (@ 20 °C) (68 °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)
	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	0,87 hPa (@ 25 °C) (77 °F)
	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)
	linalool	0,27 hPa (@ 24,85 °C) (76,73 °F) (OECD 104)
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	p-menth-l-en-8-yl acetate	0,03515 hPa (@ 23 °C) (73 °F)
	Rosin oligomers	0,0000002 hPa (@ 25 °C) (77 °F)

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Relative density	:	0,98
Density	:	0,85 - 1,1 g/cm3
Vapor density	:	Not available.
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 products its ingredients.	
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition 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	-
turpentine, oil				
	LD50 Oral	Rat	3.956 mg/kg	-
	LC50 Inhalation	Rat	19,9 mg/l	1 h
	Vapor			
	LC50 Inhalation	Rat	13,7 mg/l	4 h
	Vapor			
eugenol				
	LD50 Oral	Rat	1.930 mg/kg	-
linalool				
	LD50 Oral	Rat	2.790 mg/kg	-

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	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	-
cineole				
	LD50 Oral	Rat	2.480 mg/kg	-
(R)-p-mentha-1,8-diene	•			
	LD50 Oral	Rat	4.400 mg/kg	-
	LD50 Dermal	Rabbit	5.000 mg/kg	-

Conclusion/Summary

: Not available.

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
HTL000037-H009	3729,4 mg/kg	37139,6 mg/kg	N/A	85,6 mg/l	N/A
cyclohexanol	1400 mg/kg	N/A	N/A	11 mg/l	N/A
2-ethylhexanoic acid, iron salt	500 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
Acrylic polymers	500 mg/kg	N/A	N/A	N/A	N/A
eugenol	1930 mg/kg	N/A	N/A	N/A	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	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

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				

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	Skin - Severe irritant	Human	-		-
eugenol	Skin - Moderate irritant	Man	-	48 hrs	-
	Skin - Severe irritant	Rabbit	-	24 hrs	-
	Skin - Mild irritant	Pig	-	48 hrs	-
	Skin - Moderate irritant	Guinea pig	-	24 hrs	-
	Skin - Mild irritant	Human	-	48 hrs	-
linalool	Eyes - Moderate irritant	Rabbit	-	1 hrs	-
	Skin - Mild irritant	Man	-	48 hrs	-
	Skin - Mild irritant	Rabbit	-	24 hrs	-
	Skin - Severe irritant	Rabbit	-	24 hrs	-
	Eyes - Moderate irritant	Rabbit	-		-
	Skin - Moderate irritant	Guinea pig	-	24 hrs	-
	Skin - Mild irritant	Human	-	72 hrs	-
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hrs	-
	Skin - Mild irritant	Rabbit	-	24 hrs	-
	Eyes - Severe irritant	Rabbit	-		-
(R)-p-mentha-1,8-diene	Skin - Mild irritant	Rabbit	-	24 hrs	-

Conclusion/Summary Skin

: Not available.

Eyes Respiratory : Not available.

: Not available.

Sensitization

Conclusion/Summary Skin Respiratory

Not available.Not available.

Mutagenicity

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

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
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.
<u>Symptoms related to the physical, c</u> Eye contact	<u>hemio</u> :	Adverse symptoms may include the following: pain or irritation,
Inhalation	:	watering, redness Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations
Skin contact	:	Adverse symptoms may include the following: irritation, redness, reduced fetal weight, increase in fetal deaths, skeletal malformations
Ingestion	:	Adverse symptoms may include the following: 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	:	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	:	Suspected of damaging fertility or the unborn child.
11.2. Information on other hazards	5	

11.2.1 Endocrine disrupting properties	:
11.2.2 Other information	:

Not available. 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			
- X	Acute LC50 24 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		
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

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water		
Acute EC50 0,421 mg/l Fresh	Daphnia - Daphnia magna	48 h
water		

Not available. **Conclusion/Summary** •

12.2 Persistence and degradability

Conclusion/Summary Not available. :

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
cyclohexanol	1,21,25	-	low	
eugenol	2,27	-	low	
bornan-2-one	2,38	-	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	

12.4 Mobility in soil

Soil/water partition coefficient (KOC)	:	Not available.
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).

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
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Hazardous waste	:	be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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)		
nazardous substances		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/RI	D	IMDG	IATA
14.1 UN number	-		-	-
14.2 UN proper shipping name	Not regulated.		Not regulated.	Not regulated.
14.3 Transport hazard class(es)	-		-	-
14.4 Packing group	-		-	-
14.5. Environmental hazards	No.		No.	No.
ADN	:	The pro- in tank y	duct is only regulated as a dang vessels.	gerous good when transported
14.6 Special precaut	.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 ac or spillage.		Ensure that persons	
4.7 Transport in bulk according : Not available.				

14.7 Transport in bulk according : to IMO instruments

SECTION 15: Regulatory information

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

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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			

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 not controlled under the Seveso Directive.

National regulations

D.Lgs. 152/06 International regulations : Not determined.

Chemical Weapon Convention List Schedules I, II & III Chemicals

<u>Chemical Weapons Convention List Schedule I Chemicals</u> None of the components are listed.

<u>Chemical Weapons Convention List Schedule II Chemicals</u> 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.

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North ColoRogen

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.

<u>POPs - Annex 3</u> None of the components are listed.

Inventory list

Australia	: Not dete	rmined.	
Canada	: Not dete	rmined.	
China	: Not dete	rmined.	
Eurasian Economic U	nion : Russian	Federation inventory: Not determined	
Japan	: Japan in	nventory (CSCL): Not determined.	
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Assessments are still required.

		Japan inventory (ISHL): Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	At least one component is inactive.
Viet Nam	:	Not determined.
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety

SECTION 16: Other information

Abbreviations and acronyms	:	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
Skin Sens. 1, H317	Calculation method
Repr. 2, H361	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H228	Flammable solid.
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.
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H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging 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		
Muta. 2	GERM CELL MUTAGENICITY - Category 2		
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B		
Repr. 2	TOXIC TO REPRODUCTION - Category 2		
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		
	40.05.0005		
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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Notwithstanding the above, the provisions of this clause shall not apply in the event of supplier wilful misconduct (dolo), in which case the provisions of current legislation shall apply.

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