

SAFETY DATA SHEET

COLOROBE S.P.A.	BIA]	ITALIA			HTL0	00036	
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

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

1.1 Product identifier

Product name HTL--000036

Product code 000000000010113120

Product description Not available.

liquid **Product type**

Other means of identification HTL--000036

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

1.3 Details of the supplier of the safety data sheet

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Italia

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e-mail address of person responsible for this SDS

1.4 Emergency telephone number

QHSE@colorobbia.it

National advisory body/Poison Center

Telephone number CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06

Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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

2.2 Label elements

Hazard pictograms











Signal word Hazard statements : Danger

: H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H340 May cause genetic defects.

H350 May cause cancer.

H373 May cause 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: P201 - Obtain special instructions before use. P280 - Wear protective

gloves, protective clothing, eye protection, face protection, or hearing protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P264 - Wash

thoroughly after handling.

P391 - Collect spillage. P308 - IF exposed or concerned: P308 + Response

> P313 - Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 - IF ON SKIN: P302 + P352 - Wash with plenty of water. P333 - If skin irritation or rash occurs: P333 + P313 - Get medical advice or attention. P305 - IF IN EYES: P305 + P351 + P338 - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 + P310 - Immediately call a POISON

CENTER or doctor.

Storage P405 - Store locked up.

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

local, regional, national and international regulations.

Hazardous ingredients rosin

> turpentine, oil bornan-2-one

Eucalyptus globulus, ext.

(E)-anethole

Naphtha (petroleum), hydrotreated heavy

Not applicable. Supplemental label elements

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Restricted to professional users.

Special packaging requirements

Containers to be fitted with 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
	EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7		The state of the s	M [Acute] = 100 M [Chronic] = 10	[1]

			Aquatic Chronic 1, H410		
turpentine, oil	EC: 232-350-7 CAS: 8006-64-2 Index: 650-002-00-6	>= 10 - <= 18	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]
bornan-2-one	EC : 200-945-0 CAS : 76-22-2	> 0 - < 10	Flam. Sol. 2, H228 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Chronic 4, H413	-	[1]
cyclohexane	EC: 203-806-2 CAS: 110-82-7 Index: 601-017-00-1	> 0 - <= 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 (Narcotic effects) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2]
cyclohexanol	EC: 203-630-6 CAS: 108-93-0 Index: 603-009-00-3	> 0 - <= 9,6	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]
Eucalyptus globulus, ext.	EC : 283-406-2 CAS : 84625-32-1	> 0 - <= 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
benzyl alcohol	EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	> 0 - <= 5	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1.230 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
cyclohexanone	EC: 203-631-1 CAS: 108-94-1 Index: 606-010-00-7	> 0 - <= 5	Flam. Liq. 3, H226 Acute Tox. 4, H332	ATE [Inhalation (gases)] = 8.000 ppm	[1] [2]
(E)-anethole	EC: 224-052-0 CAS: 4180-23-8	> 0 - <= 3	Skin Sens. 1, H317	-	[1]
Fatty acids, C6-19- branched, iron salts	EC: 269-635-0 CAS: 68308-20-3	> 0 - <= 3	Skin Irrit. 2, H315	-	[1]
Naphtha (petroleum), hydrotreated heavy	EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6	> 0 - <= 1	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304	-	[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

Skin contact

Ingestion

- [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

Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Get medical attention immediately. Call a poison center or physician.

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.

: 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.

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small

quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to

an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

: 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

Protection of first-aiders

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 Use dry chemical, CO₂, water spray (fog) or foam.

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

For non-emergency personnel

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

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. Shut off all ignition sources. No flares, smoking or

For emergency responders

flames in hazard area. Do not breathe 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
- 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. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only

Advice on general occupational hygiene

non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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
P5c	5.000 t	50.000 t
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
cyclohexane	EU OEL (2006-02-01). TWA 700 mg/m3 200 ppm Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (2008-02-26). TWA 350 mg/m3 100 ppm
cyclohexanone	EU OEL (2000-06-01). Absorbed through skin TWA 40,8 mg/m3 10 ppm STEL 81,6 mg/m3 20 ppm Legislative Decree No. 819/2008. Title IX. Protection from chemical agents, carcinogens and mutagens (2004-03-01). Absorbed through

skin
TWA 40,8 mg/m3 10 ppm
STEL 81,6 mg/m3 20 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
rosin	DNEL	Long term	1,0655 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	10 mg/m ³	Workers	Local
		Inhalation	_		
	DNEL	Long term	2,131 mg/kg	Workers	Systemic
		Dermal	bw/day		
turpentine, oil	DNEL	Short term	1,6 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Long term	0,11 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Short term	51,6 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Short term	10,3 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	3,9 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	3,17 mg/cm ²	Workers	Local
		Dermal			
	DNEL	Short term	0,59 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Short term	0.12 mg/m^3	General	Systemic
		Inhalation		population	
	DNEL	Short term	9,51 mg/cm ²	Workers	Local
		Dermal			
	DNEL	Long term	$0,78 \text{ mg/m}^3$	Workers	Systemic
		Inhalation			
	DNEL	Long term	1,17 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Long term	0.018 mg/m^3	General	Systemic
		Inhalation		population	
	DNEL	Long term	0,417 mg/kg	General	Systemic
		Dermal	bw/day	population	

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
bornan-2-one	DNEL	Long term Inhalation	4,3478 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	17,6316 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
cyclohexane	DNEL	Long term Oral	59,4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2016 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	1400 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	1400 mg/m³	Workers	Local
	DNEL	Long term Dermal	1186 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	700 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	700 mg/m³	Workers	Local
	DNEL	Short term Inhalation	412 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	412 mg/m³	General population	Local
	DNEL	Long term Inhalation	206 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	206 mg/m³	General population	Local
Eucalyptus globulus, ext.	DNEL	Long term Inhalation	3,52 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0,5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0,5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0,87 mg/m ³	General population	Systemic
benzyl alcohol	DNEL	Short term Inhalation	110 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	27 mg/m ³	General	Systemic

		Inhalation		population	
	DNEL	Long term	8 mg/kg	Workers	Systemic
		Dermal	bw/day		
	DNEL	Long term	5,4 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	4 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	22 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	20 mg/kg	General	Systemic
		Dermal	bw/day	population	
	DNEL	Short term	20 mg/kg	General	Systemic
		Oral	bw/day	population	
	DNEL	Long term	4 mg/kg	General	Systemic
	DIVEE	Dermal	bw/day	population	Systemic
cyclohexanone	DNEL	Short term	1 mg/kg	General	Systemic
yelolicxallolic	DIVEL	Dermal	bw/day	population	Systemic
	DNEL	Short term	80 mg/m ³	Workers	Systemic
	DNEL	Inhalation	oo mg/m²	WOLKEIS	Systemic
	DME	Short term	90 m a/s=3	Worker	Local
	DNEL		80 mg/m ³	Workers	Local
	DATES	Inhalation	40 / 2	XX7. 1	G
	DNEL	Long term	40 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term	40 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	40 mg/m^3	General	Local
		Inhalation		population	
	DNEL	Short term	20 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	20 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	10 mg/m ³	General	Systemic
		Inhalation	8	population	
	DNEL	Long term	4 mg/kg	Workers	Systemic
	DIVEE	Dermal	bw/day	· · · orkers	Systemic
	DNEL	Short term	4 mg/kg	Workers	Systemic
	DIVEL	Dermal	bw/day	WOIKCIS	Systemic
	DNEL	Long term	1,5 mg/kg	General	Systemic
	DNEL	Oral	bw/day	population	Systemic
	DNEL	Short term		General	Cristonia
	DNEL		1,5 mg/kg		Systemic
	DAILI	Oral	bw/day	population	G ·
	DNEL	Long term	1 mg/kg	General	Systemic
	D	Dermal	bw/day	population	
	DNEL	Short term	1 mg/kg	General	Systemic
		I D 1	bw/day	population	
		Dermal			
	DNEL	Short term	20 mg/m³	General	Systemic
		Short term Inhalation	20 mg/m³	population	
	DNEL	Short term Inhalation Long term			Systemic Local
		Short term Inhalation	20 mg/m³	population	
		Short term Inhalation Long term	20 mg/m³	population General	
	DNEL	Short term Inhalation Long term Inhalation	20 mg/m ³ 20 mg/m ³	population General population	Local
	DNEL	Short term Inhalation Long term Inhalation Long term Inhalation	20 mg/m ³ 20 mg/m ³ 10 mg/m ³	population General population General population	Local Systemic
	DNEL	Short term Inhalation Long term Inhalation Long term Inhalation Long term Long term	20 mg/m ³ 20 mg/m ³ 10 mg/m ³ 4 mg/kg	population General population General	Local
	DNEL DNEL DNEL	Short term Inhalation Long term Inhalation Long term Inhalation Long term Dermal	20 mg/m³ 20 mg/m³ 10 mg/m³ 4 mg/kg bw/day	population General population General population Workers	Local Systemic Systemic
	DNEL	Short term Inhalation Long term Inhalation Long term Inhalation Long term Dermal Short term	20 mg/m³ 20 mg/m³ 10 mg/m³ 4 mg/kg bw/day 4 mg/kg	population General population General population	Local Systemic
	DNEL DNEL DNEL	Short term Inhalation Long term Inhalation Long term Inhalation Long term Dermal	20 mg/m³ 20 mg/m³ 10 mg/m³ 4 mg/kg bw/day	population General population General population Workers	Local Systemic Systemic

	DNEL	Short term Oral	1,5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	General population	Systemic
(E)-anethole	DNEL	Long term Dermal	3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	1,5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	1,5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2,61 mg/m ³	General population	Systemic
Naphtha (petroleum), hydrotreated heavy	DNEL	Long term Dermal	300 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	300 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	837,5 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	178,57 mg/m ³	General population	Local
	DNEL	Long term Inhalation	0,41 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	1286,4 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	1152 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	640 mg/m³	General population	Local
	DNEL	Long term Inhalation	1,9 mg/m³	Workers	Systemic

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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.Odor: Aromatic.Odor threshold: Not available.Melting point/freezing point: Not available.

Initial boiling point and boiling

range

 $> 100 \, ^{\circ}\text{C} \, (> 212 \, ^{\circ}\text{F})$

Flammability Not available.

Lower and upper explosion limit **Lower:** Not available.

Upper: Not available.

Flash point 20 °C (68 °F)

Auto-ignition temperature Not available. **Decomposition temperature** Not available.

Product is non-polar/aprotic.

Viscosity **Dynamic**: Not available.

Kinematic: Not available.

Solubility in water insoluble

Partition coefficient: n-

octanol/water

Not applicable.

Vapor pressure

Relative density Not available. Not applicable. Vapor density Not available. **Explosive properties** Not available. Oxidizing properties

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 reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers

to heat or sources of ignition.

Reactive or incompatible with the following materials: oxidizing **10.5** Incompatible materials

materials

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
rosin				
	LD50 Oral	Rat	7.600 mg/kg	-
turpentine, oil				
	LD50 Oral	Rat	3.956 mg/kg	-
	LC50 Inhalation Vapor	Rat	19,9 mg/l	1 h
	LC50 Inhalation Vapor	Rat	13,7 mg/l	4 h
cyclohexanol	•			
•	LD50 Oral	Rat	1.400 mg/kg	-
cyclohexane	•			
•	LD50 Oral	Rat	5.000 mg/kg	-
benzyl alcohol	•			
	LD50 Oral	Rat	1.230 mg/kg	-
	LD50 Dermal	Rabbit	2.000 mg/kg	-
cyclohexanone				
	LD50 Oral	Rat	1.800 mg/kg	-
	LC50 Inhalation Gas.	Rat	8.000 ppm	4 h
(E)-anethole				
	LD50 Oral	Rat	2.090 mg/kg	-
Naphtha (petroleum), hydroti	reated heavy		-	
	LD50 Oral	Rat	6.000 mg/kg	-
	LC50 Inhalation Vapor	Rat	8,5 mg/l	4 h

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
HTL000036	3324,1 mg/kg	9907,1 mg/kg	265419,2 ppm	57 mg/l	N/A
rosin	7600 mg/kg	N/A	N/A	N/A	N/A
turpentine, oil	500 mg/kg	1100 mg/kg	N/A	13,7 mg/l	N/A
cyclohexanol	1400 mg/kg	N/A	N/A	11 mg/l	N/A
cyclohexane	5000 mg/kg	N/A	N/A	N/A	N/A
benzyl alcohol	1230 mg/kg	N/A	N/A	11 mg/l	N/A
cyclohexanone	N/A	N/A	8000 ppm	N/A	N/A
(E)-anethole	2090 mg/kg	N/A	N/A	N/A	N/A
Naphtha (petroleum), hydrotreated heavy	6000 mg/kg	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
turpentine, oil	Skin - Severe	Rabbit	-		-
_	irritant				
	Skin - Severe	Human	-		-
	irritant				
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				
benzyl alcohol	Skin -	Pig	-		-
-	Moderate				
	irritant				
	Skin - Mild	Man	-	48 hrs	-
	irritant				
	Skin -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
cyclohexanone	Eyes -	Rabbit	-	24 hrs	-
	Severe				
	irritant				
	Skin - Mild	Human	-	48 hrs	-
	irritant				
	Skin - Mild	Rabbit	-		-
	irritant				
	Eyes -	Rabbit	-		-
	Severe				
	irritant				

Conclusion/Summary

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

Sensitization

Conclusion/Summary

Skin: Not available.Respiratory: Not 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
cyclohexane	Category 3	-	Narcotic effects

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
cyclohexane	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1

Information on the likely routes

of exposure

Not available.

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: May cause damage to organs through prolonged or repeated

exposure. Once sensitized, a severe allergic reaction may occur

when subsequently exposed to very low levels.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : May cause genetic defects.

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		
cyclohexane			
	Acute LC50 4,53 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
benzyl alcohol			
	Acute LC50 10 mg/l Fresh	Fish - Lepomis macrochirus	96 h
	water		
cyclohexanone			
	Acute LC50 527 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
	Acute EC50 32,9 mg/l	Algae - Chlamydomonas	72 h
		reinhardtii	
	Chronic EC10 3,56 mg/l	Algae - Chlamydomonas	72 h
		reinhardtii	
(E)-anethole			
	Acute EC50 4,81 mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
	Acute EC50 4,25 mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
	Acute IC50 9,313 mg/l Fresh	Algae - Pseudokirchneriella	96 h
	water	subcapitata	

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
rosin	1,9 - 7,7	-	high
cyclohexanol	1,21,25	-	low
bornan-2-one	2,38	-	low
cyclohexane	3,44	167,00	low
benzyl alcohol	1	-	low
cyclohexanone	0,86	-	low
Naphtha (petroleum), hydrotreated	-	10,00 - 2.500,00	high
heavy			

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	e generation of	of waste	should	be avoided	i or minimized	l wherever
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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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (turpentine, oil, cyclohexane)	FLAMMABLE LIQUID, N.O.S. (turpentine, oil, cyclohexane)	FLAMMABLE LIQUID, N.O.S. (turpentine, oil, cyclohexane)
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	П	П	П
14.5. Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

٨	44	:4:	mal	info	rma	tion
А	aa	ш(mai	inic)rma	uon

Auditional information		
ADR/RID	 The environmentally hazardous substance mark is n transported in sizes of ≤5 L or ≤5 kg. Special provisions 640C Tunnel code (D/E) 	ot required when
ADN	: The environmentally hazardous substance mark is n transported in sizes of ≤5 L or ≤5 kg. Special provisions 640C	ot required when
IMDG	: The marine pollutant mark is not required when tran of \leq 5 L or \leq 5 kg.	isported in sizes
IATA	: The environmentally hazardous substance mark magnetured by other transportation regulations.	y appear if

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 to IMO instruments

Not available.

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Other EU regulations

Industrial emissions (integrated

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
P5c
E1

National regulations

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Chemical Weapons Convention List Schedule I Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

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 : At least one component is not listed in DSL but all such

components are listed in NDSL.

China : Not determined.

Eurasian Economic Union : Russian Federation inventory: Not determined.

Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.
Philippines : Not determined.

Republic of Korea: Not determined.Taiwan: Not determined.Thailand: Not determined.Turkey: Not determined.United States: Not determined.

Viet Nam : All components are listed or exempted.

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
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 1B, H340	Calculation method
Carc. 1B, H350	Calculation method
STOT RE 2, H373	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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

H340	May cause genetic defects.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause 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.
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 4	AQUATIC HAZARD (LONG-TERM) - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
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. 1B	GERM CELL MUTAGENICITY - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
	Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -
	Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
	Category 3

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