SAFETY DATA SHEET

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according to Regulation (EC) No. 1907/2006 Version 6.2 Revision Date 25.07.2018 Print Date 06.05.2019 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1	Product identifiers Product name	ra © 100	
	Product Number Brand Index-No. REACH No. CAS-No.	120 ; 160130 ; 160150 vice Chimie -029-00-7 gistration number is not available for this substance as th s uses are exempted from registration, the annual tonnag uire a registration or the registration is envisaged for a late stration deadline. 9-27-5	e does not
1.2	Relevant identified uses of	bstance or mixture and uses advised against	
	Identified uses	oratory chemicals, Manufacture of substances	
1.3	Details of the supplier of the	y data sheet	
	Company	vice Chimie ace de l'Eglise 00 Saint Thibault des Vignes - France	
	Telephone Fax	(0) 164 308 922 (0)164 308 749	
1.4	Emergency telephone num		
	Emergency Phone #	(0)9 75 18 14 07 (CHEMTREC) (0)1 45 42 59 59 (I.N.R.S.)	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226 Skin irritation (Category 2), H315 Skin sensitisation (Category 1), H317 Aspiration hazard (Category 1), H304 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

Danger

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word Hazard statement(s) H226

Flammable liquid and vapour.

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H304 H315 H317 H410	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
Supplemental Hazard Statements	none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	:	(+)-Carvene (+)-p-Mentha-1,8-diene (R)-4-Isopropenyl-1-methyl-1-cyclohexene
Formula	:	C <sb>10H<sb>16</sb></sb>
Molecular weight	:	136,23 g/mol
CAS-No.	:	5989-27-5
EC-No.	:	227-813-5
Index-No.	:	601-029-00-7

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
)-Limonene			
CAS-No. EC-No. Index-No.	5989-27-5 227-813-5 601-029-00-7	Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H226, H315, H317, H400, H410 M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 1	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.



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In case of eve contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed 4.3 No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Dry powder Dry sand

Unsuitable extinguishing media Do NOT use water jet.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides
- 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 **Further information**

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 6.1

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 **Reference to other sections**

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Storage class (TRGS 510): 3: Flammable liquids

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7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 480 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 31 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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SECTION 9: Physical and chemical propertie

9.1	Information on basic physical and chemical properties			
	a)	Appearance	Form: liquid, clear Colour: colourless	
	b)	Odour	characteristic	
	c)	Odour Threshold	No data available	
	d)	рН	No data available	
	e)	Melting point/freezing point	Melting point/range: -74,3 °C	
	f)	Initial boiling point and boiling range	176 - 177 °C	
	g)	Flash point	50 °C	
	h)	Evaporation rate	No data available	
	i)	Flammability (solid, gas)	No data available	
	j)	Upper/lower flammability or explosive limits	Upper explosion limit: 6,1 %(V) Lower explosion limit: 0,7 %(V)	
	k)	Vapour pressure	50 hPa at ca.50 °C	
	I)	Vapour density	4,70 - (Air = 1.0)	
	m)	Relative density	0,842 g/mL at 20 °C	
	n)	Water solubility	immiscible	
	o)	Partition coefficient: n- octanol/water	log Pow: 4,2	
	p)	Auto-ignition temperature	245 °C at 995 hPa	
	q)	Decomposition temperature	No data available	
	r)	Viscosity	No data available	
	s)	Explosive properties	No data available	
	t)	Oxidizing properties	No data available	
9.2	Oth	ner safety information		
		Relative vapour density	4,70 - (Air = 1.0)	
SECTION 10: Stability and reactivity				

10.1 Reactivity No data available

- 10.2 Chemical stability Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid Heat, flames and sparks.
- 10.5 Incompatible materials Strong oxidizing agents

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10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 4.400 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Respiratory disorder Skin and Appendages: Other: Hair. LD50 Dermal - Rabbit - > 5.000 mg/kg

Skin corrosion/irritation No data available

Serious eye damage/eye irritation

Eves - Rabbit Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitisation

Local lymph node assay (LLNA) - Mouse Result: May cause sensitisation by skin contact. (OECD Test Guideline 429)

Germ cell mutagenicity

Mouse lymphocyte Result: negative

Rat - male Result: negative

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information

Repeated dose toxicity - Mouse - male and female - No observed adverse effect level - 1.650 mg/kg -Lowest observed adverse effect level - 3.300 mg/kg RTECS: GW6360000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence

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SECTION 12: Ecological information

	U	
12.1	Toxicity	
	Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 0,72 mg/l - 96 h(D-Limonene) (OECD Test Guideline 203)
	Toxicity to daphnia and other aquatic invertebrates	semi-static test EC50 - Daphnia magna (Water flea) - 0,307 mg/l - 48 h(D- Limonene) (OECD Test Guideline 202)
	Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0,32 mg/l - 72 h(D-Limonene) (OECD Test Guideline 201)
		static test EC10 - Pseudokirchneriella subcapitata (green algae) - 0,174 mg/l - 72 h(D-Limonene) (OECD Test Guideline 201)
	Toxicity to bacteria	EC50 - Sludge Treatment - 3,94 mg/l (D-Limonene) (OECD Test Guideline 209)
12.2	Persistence and degrad	lability

Biodegradability Result: 71 % - Readily biodegradable. (OECD Test Guideline 301B)

- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available(D-Limonene)
- Results of PBT and vPvB assessment 12.5 This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
- 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging

Dispose of as unused product.

SEC	FION 14: Transport information		
14.1	UN number ADR/RID: 2052	IMDG: 2052	IATA: 2052
14.2	UN proper shipping name ADR/RID: DIPENTENE IMDG: DIPENTENE IATA: Dipentene		
14.3	Transport hazard class(es) ADR/RID: 3	IMDG: 3	IATA: 3

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14.4	Packaging group ADR/RID: III	IMDG: III	IATA: III	I
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant:	yes IATA: n	0
14.6	Special precautions for user No data available			
SECT 15.1	ION 15: Regulatory information Safety, health and environment	tal regulations/legislation	specific for the su	bstance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315Causes skin irritation.H317May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.