

TRULUX SAFETY DATA SHEET

Provides critical information about hazardous chemicals.

1.1 COMPANY IDENTIFICATION

Company's Name: Trulux Pty Ltd
Email address: info@trulux.com.au
Website: www.trulux.com.au
Contact number: +61 (02) 9975 2655
Address: C3/ 1-3 Rodborough Rd, Frenchs Forest NSW 2086 Australia

1.2 PRODUCT IDENTIFICATION

Trade name: 4-Methylbenzylidene Camphor
Reference number: RMTR-0363A
Classification: Refer to clause 2

1.3 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses: Raw Material
Uses advised against: No further information available.

1.4 DETAILS OF THE SUPPLIER OF THE SUBSTANCE INFORMATION SHEET

Supplier's Company: Trulux Pty Ltd
Website: www.trulux.com.au
Address: C3/ 1-3 Rodborough Rd, Frenchs Forest NSW 2086 Australia

Trade Name: 4-Methylbenzylidene Camphor

Doc: RMSDS - 4-Methylbenzylidene Camphor

TR Ref. Number: RMTR-0363A

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1.5 EMERGENCY CONTACTS – INSTITUTIONAL CENTRES

Australia

Poisons Information Centre 13 11 26

2 HAZARDS IDENTIFICATION

Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - repeated exposure, Category 2 H373

Short-term (acute) aquatic hazard, Category 1 H400

Long-term (chronic) aquatic hazard, Category 1 H410

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

Precautionary statements - Response:

P314 Get medical advice/ attention if you feel unwell.

P391 Collect spillage.

Precautionary statements - Disposal:

P501 Dispose of contents / container to an approved waste disposal plant.

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3 COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization: (\pm)-1,7,7-Trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one

Molecular weight: 254.4 g/mol

Total formula: C₁₈-H₂₂-O

CAS-No.: 36861-47-9

EINECS-No. / ELINCS No.: 253-242-6

REACH Registration Number: 01-2120770479-40

Chemical Name	CAS-No. / EC-No.	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
(\pm)-1,7,7-Trimethyl-3- [(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2- one ¹⁾	36861-47-9 / 53-242-6	Aquatic Chronic: 1; H410 Aquatic Acute: 1; H400 STOT RE: 2; H373	50 - 100

Short-term (acute) aquatic hazard: ¹⁾ 0,1 < L(E)C50 <= 1 mg/l

Full text of H-Statements

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.

4 FIRST AID MEASURES

General Advice: Move out of dangerous area. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air.

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Ingestion:	Prevent vomiting if possible. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.
Skin contact:	Wash off with soap and water.
Eye contact:	Immediately flush eye(s) with plenty of water.

5 FIRE FIGHTING MEASURES

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	High volume water jet.
Special hazards arising from the substance or mixture:	Do not use a solid water stream as it may scatter and spread fire. Do not allow run-off from fire fighting to enter drains or water courses.
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus.
Further Information:	In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation. Avoid dust formation.
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Environmental precautions: Should not be released into the environment. Avoid subsoil penetration. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Methods for cleaning up: Pick up and transfer to properly labelled containers. Use mechanical handling equipment.

Additional advice: Local authorities should be advised if significant spillages cannot be contained.

7 HANDLING AND STORAGE

Precautions for safe handling:

- | | |
|------------------------------|---|
| 1- Advice on safe handling: | 1- Dispose of rinse water in accordance with local and national regulations. For personal protection see section 8. |
| 2- Measures to prevent Fire: | 2- When using do not smoke. |

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store in original container. Keep container tightly closed in a dry and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight.

Advice on common storage: No special restrictions on storage with other products.

Other data: No decomposition if stored and applied as directed.

Specific and uses Fragrance.

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8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

Components with workplace control parameters, Germany:

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	AGW 200 ppm	06 2018	TRGS 900

Components with workplace control parameters, United Kingdom:

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	TWA 1.000 ppm	12 2011	EH40 WEL

Components with workplace control parameters, Spain:

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	STEL 1.000 ppm	2013	VLA (ES)

Components with workplace control parameters, France:

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	VLE 5.000 ppm VME 1.000 ppm	07 2012 07 2012	INRS (FR) INRS (FR)

Components with workplace control parameters, Austria:

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	MAK 1.000 ppm MAK CEIL 2.000 ppm	12 2011 12 2011	MAK (AT) MAK (AT)

Components with workplace control parameters, Poland:

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	TWA 1.900 mg/m ³	12 2011	POL MAC

Engineering measures: None.

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Personal Protective Equipment

- Hygiene Measures Keep working clothes separately. Wash hands before breaks and immediately after handling the product.
- Respiratory Protection No personal respiratory protective equipment normally required.
- Skin and Body Protection Remove and wash contaminated clothing before re-use.
- Hand Protection Wear chemicals-resistant gloves, e.g. safety gloves of chloroprene Level 2 or of butyl rubber Level 6.
- Eye Protection Safety glasses.
- Protective Measures When using, do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form:	crystals
Colour:	pale white to white
Odour:	characteristic
Melting Point / Range:	ca. 68 °C
Flash Point:	> 100 °C
Bulk Density:	0.35 kg/m ³
Water solubility:	0.2 mg/l
Partition coefficient: n-octanol/water	log Pow: 5.1 calculated
Flammability (solid, gas):	The substance or mixture is not classified as flammable.
Ignition temperature:	430 °C
Auto-ignition temperature:	The substance or mixture is not classified as self heating.
Oxidizing properties:	The substance or mixture is not classified as oxidizing.
Explosive properties:	Due to its structural properties, the product is not classified as explosive.

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Lower / Upper explosion limit: Dust can form an explosive mixture in air.

A final assessment of potential explosion hazards can only be made on a case-by-case basis when precise information is available on product handling, production setup and the circumstances surrounding the use of the product.

10 STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

11 TOXICOLOGICAL INFORMATION

No further information available.

12 ECOLOGICAL INFORMATION

Toxicity

Acute Fish toxicity: LC50: > 0,74 mg/l/96 h; Zebrafish (Brachydanio rerio)

Acute toxicity Aquatic invertebrates: EC50: 0,86 mg/l/48 h; Daphnia magna, OECD 202 / ISO 6341

Persistence and degradability

Not readily biodegradable.

0 %/28 d, OECD 301F

Results of PBT and vPvB assessment

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.

Other adverse effects

Very toxic to aquatic life with long lasting effects.

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13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Dispose of as unused product.

14 TRANSPORT INFORMATION

UN number

ADR: 3077
RID: 3077
IMDG: 3077
IATA-DGR: 3077

Proper shipping name

ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(3-(4-METHYLBENZYLIDEN)-CAMPHOR)

RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(3-(4-METHYLBENZYLIDEN)-CAMPHOR)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(3-(4-METHYLBENZYLIDEN)-CAMPHOR) MP

IATA-DGR: Environmentally hazardous substance, solid, n.o.s. (3-(4- METHYLBENZYLIDEN)-CAMPHOR)

Transport hazard class

ADR: 9
RID: 9

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IMDG: 9

IATA-DGR: 9

Packing group

ADR:

Packaging group: III

Classification Code: M7

Hazard Identification Number: 90

Labels: 9

Tunnel restriction code: (-)

RID:

Packaging group: III

Classification Code: M7

Hazard Identification Number: 90

Labels: 9

IMDG:

Packaging group: III

Labels: 9

EmS - EmS: F-A, S-F

IATA-DGR:

Packing instruction (cargo aircraft): 956

Qty/Pkg (Cargo): 400,00 KG

Packing instruction (passenger aircraft): 956

Qty/Pkg (Passenger): 400,00 KG

Packaging group: III

Labels: 9MI

Environmental hazards

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ADR:

Environmentally hazardous: yes

RID:

Environmentally hazardous: yes

IMDG:

Marine pollutant: yes

IATA-DGR:

Environmentally hazardous: yes

Special precautions for user

No data available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15 REGULATORY AND OTHER INFORMATION

Safety, health and environmental regulations specific for the mixture or substance:

Water contaminating class (Germany)

WGK 2 (obviously hazardous to water)

2.358

16 OTHER INFORMATION

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition or other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user.

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This sheet completes the technical sheets but it does not replace them. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied is made and Trulux Pty Ltd assumes no legal responsibility or liability whatsoever resulting from its use. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

This listing must not be considered exhaustive. It does exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regard to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use.

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