

**NECTARYL 7446003**

Version 5.0

Revision Date 04 JUL 2013

Print Date 21 JUL 2013

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Sales No. : NECTARYL 7446003

Substance name : 2-(2-(4-METHYL-3-CYCLOHEXEN-1-YL)PROPYL)CYCLO-PENTANONE

Identifier

CAS : 95962-14-4

ELINCS : 404-240-0

REACH Registration Number : 01-2119446649-25-0000

If this is a flavouring for foodstuffs, then the exemption from REACH registration applies.

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

Intended Use Fragrances : Perfumery ingredient

**1.3 Details of the supplier of the safety data sheet**

Company :

Givaudan Suisse SA  
Chemin de la Parfumerie 5  
CH-1214 VERNIER

Telephone : +41227809111

Telefax : +41227809150

E-mail address : global.msds\_fragrances\_raps@givaudan.com

Responsible/issuing person

**1.4 Emergency telephone number**

+33172110003

**2. Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting effects.

**Classification (67/548/EEC, 1999/45/EC)**

Dangerous for the environment R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Administrative information:

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Sales & Distribution Information: VE01/FR/CH12/01/0010003798/0001463368/000010

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Response:**  
P391 Collect spillage.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Labelling according to EC Directives (67/548/EEC, 1999/45/EC)

Hazard pictograms :



Dangerous  
for the  
environment

R-phrase(s) : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) : S57 Use appropriate container to avoid environmental contamination.  
S60 This material and its container must be disposed of as hazardous waste.

2.3 Other hazards

no data available

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### 3. Composition/information on ingredients

#### 3.1 Substances

| Chemical Name  | CAS-No.<br>EINECS-No. / ELINCS No. | Concentration [%] |
|--|------------------------------------|-------------------|
| 2-(2-(4-methyl-3-cyclohexen-1-yl)propyl)cyclopentanone | 95962-14-4<br>404-240-0            | >= 50 - <= 100    |

Hydrocarbons : 0 %

### 4. First aid measures

#### 4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
If on skin, rinse well with water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : no data available  
Risks : no data available

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

- Treatment : no data available

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## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media :

- Dry chemical
- Alcohol-resistant foam
- Water spray
- Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : no data available

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

not applicable

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## 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Temperature class : no data available

Fire-fighting class : no data available

Dust explosion class : no data available

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : no data available

Advice on common storage : no data available

German storage class : no data available

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

### 7.3 Specific end uses

Specific use(s) : no data available

## 8. Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

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Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands before breaks and at the end of workday.

**Environmental exposure controls**

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Physical state : liquid  
Form : liquid  
Colour : colourless  
Taste : not determined  
Odour : fruity, Peach, Red fruit, mild  
Odour Threshold : 0,3542 ng/l  
Flash point : 162 °C Method: closed cup  
Lower explosion limit : not determined  
Upper explosion limit : not determined  
Flammability (solid, gas) : no data available  
Oxidizing properties : no data available  
Autoignition temperature : 294 °C  
Method: DIN 51794  
  
Decomposition temperature : no data available  
Molecular Weight : 220,00 g/mol  
pH : no data available  
Melting point : -41 °C  
Boiling point : 288 °C at 1 013 hPa  
Vapour pressure : 0,0001 hPa at 20 °C  
Method: OECD Test Guideline 104  
0,0027 hPa at 50 °C  
Method: OECD Test Guideline 104  
  
Density : 963,97 kg/m<sup>3</sup> at 20 °C  
Bulk density : not applicable  
Water solubility : 4,6 mg/l at 20 °C  
Solubility/qualitative : practically insoluble  
Partition coefficient: n-octanol/water : log Pow: 4,8  
Method: OECD Test Guideline 117  
Viscosity, kinematic : no data available  
Relative vapour density : no data available  
Surface tension : 54,5 mN/m at 20 °C

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Method: OECD Test Guideline 115

Evaporation rate : no data available  
Explosive properties : no data available

## 10. Stability and reactivity

### 10.1 Reactivity

none

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

Conditions to avoid : no data available

### 10.5 Incompatible materials

Materials to avoid : no data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : no data available  
Thermal decomposition : no data available

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Acute oral toxicity** : LD50 rat  
Dose: > 2 000 mg/kg  
Method: OECD Test Guideline 401

**Acute inhalation toxicity** : This information is not available.

**Acute dermal toxicity** : LD50 rat  
Dose: > 2 000 mg/kg  
Method: OECD Test Guideline 402

**Acute toxicity (other routes)** : No data is available on the product itself.

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**of administration)**

**Skin corrosion/irritation**

Skin irritation : Species: rabbit  
No skin irritation  
Method: OECD Test Guideline 404

**Serious eye damage/eye irritation**

Eye irritation : Species: rabbit  
No eye irritation  
Method: OECD Test Guideline 405

**Respiratory or skin sensitization**

Sensitisation : HRIPT Human  
Result: Not sensitizing  
at 5 % in Dimethyl phthalate  
Maximisation Test guinea pig  
Result: Not sensitizing  
Method: OECD Test Guideline 406

**Germ cell mutagenicity**

Genotoxicity in vitro : Ames test  
negative  
Method: Mutagenicity (Salmonella typhimurium - reverse  
mutation assay)  
  
Ames test  
negative  
Method: Mutagenicity (Escherichia coli - reverse mutation  
assay)

Genotoxicity in vivo : Micronucleus test Species: mouse  
Method: Mutagenicity (micronucleus test)  
negative

**Carcinogenicity**

Carcinogenicity : No data is available on the product itself.

**Reproductive toxicity**

Reproductive toxicity : No data is available on the product itself.

**Target Organ Systemic Toxicant - Single exposure**

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Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

**Target Organ Systemic Toxicant - Repeated exposure**

Target Organ Systemic Toxicant - Repeated exposure : Species: rat  
NOAEL: 1 000 mg/kg  
Method: Directive 67/548/EEC, Annex V, B.9.  
28-day dermal toxicity

**Target Organ Systemic Toxicant - Repeated exposure  
Aspiration hazard**

Aspiration toxicity : No data is available on the product itself.

**Phototoxicity**

Phototoxicity : UV-VIS absorption spectra  
Result:negative

**Further information** : no data available

**12. Ecological information**

**12.1 Toxicity**

Toxicity to fish : LC50: 5,47 mg/l  
Exposure time: 96 h  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50: 0,49 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

Toxicity to algae : ErC50: 2,9 mg/l  
Exposure time: 72 h  
Species: Selenastrum capricornutum (green algae)  
Method: OECD Test Guideline 201

M-Factor  
2-(2-(4-methyl-3-cyclohexen- : 1

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1-yl)propyl)cyclopentanone  
Toxicity to bacteria : no data available  
Toxicity to fish (Chronic toxicity) : no data available  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : no data available  
Acute aquatic toxicity : no data available  
Chronic aquatic toxicity : no data available  
Toxicity Data on Soil : no data available  
Other organisms relevant to the environment : no data available

**12.2 Persistence and degradability**

Biodegradability : Result: Not readily biodegradable.  
28 %  
Method: OECD Test Guideline 301 F  
Result: Inherently biodegradable.  
91 %  
Method: OECD Test Guideline 302 C

**12.3 Bioaccumulative potential**

Bioaccumulation : no data available

**12.4 Mobility in soil**

Mobility : no data available  
Distribution among environmental compartments : no data available  
Additional advice : no data available  
Environmental fate and pathways  
Physico-chemical removability : no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

Biochemical Oxygen Demand (BOD) : no data available  
Dissolved organic carbon (DOC) : no data available  
Chemical Oxygen Demand (COD) : no data available  
Adsorbed organic bound halogens (AOX) : no data available  
Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

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**13. Disposal considerations**

**13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

Dispose of in accordance with local regulations.

**14. Transport information**

**ADR/RID/ADN**

UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(2-(2-(Methylcyclohexenyl)propyl)cyclopentanone, Methyl isopropenyl cyclohexene)  
Transport hazard class(es) : 9  
Packing group : III  
Hazard identification No : 90  
Labels : 9  
Tunnel restriction code : (E)  
Environmentally hazardous : yes

**IATA/CAO**

UN number : 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(2-(2-(Methylcyclohexenyl)propyl)cyclopentanone, Methyl isopropenyl cyclohexene)  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes  
Packing instruction (CAO) : 964  
Packing instruction (PAX) : 964  
Packing instruction (Ltd. Qty.) : Y964

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**IMDG**

UN number : 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(2-(2-(Methylcyclohexenyl)propyl)cyclopentanone, Methyl isopropenyl cyclohexene)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Fire : F-A  
EmS Spillage : S-F  
Marine pollutant : yes  
2-(2-(Methylcyclohexenyl)propyl)cyclopentanone Methyl isopropenyl cyclohexene  
IMDG Code Segregation Group : None

**15. Regulatory information**

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

Water contaminating class (Germany) : WGK 2 water endangering  
Number: 6  
Classification according to appendix 3  
ZDE\_WGK Update: 2005-08-31

**15.2 Chemical Safety Assessment**

no data available

**16. Other information**

**Full text of R-phrases referred to under sections 2 and 3**

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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