

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



**COSMONE 0015173**

Version 10.0

Revision Date 22 NOV 2014

Print Date 16 JAN 2015

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Sales No. : COSMONE 0015173

Substance name : E/Z 3-METHYL-5-CYCLOTETRADECEN-1-ONE  
Identifier

CAS : 259854-70-1  
CAS : 259854-71-2  
ELINCS : 452-280-2  
Formula : C<sub>15</sub>H<sub>26</sub>O

REACH Registration Number : 01-0000019120-85-0001

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

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

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

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
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
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Administrative information:

Report Information: SDS\_GB/EN/GHS\_SDS\_EU\_CNTRY/12

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# Givaudan<sup>®</sup>

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Irritant

environment.

R43: May cause sensitisation by skin contact.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Warning

Hazard statements

: H317  
H410

May cause an allergic skin reaction.  
Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
P261  
  
P273  
P280  
**Response:**  
P333 + P313  
  
P363  
P391

Avoid breathing dust/ fume/ gas/ mist/  
vapours/ spray.

Avoid release to the environment.

Wear protective gloves.

If skin irritation or rash occurs: Get medical  
advice/ attention.

Wash contaminated clothing before reuse.

Collect spillage.

Hazardous components which must be listed on the label:

- E/Z 3-METHYL-5- 259854-70-1  
CYCLOTETRADECEN-1-ONE

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

Hazard pictograms



Dangerous  
for the  
environment

Irritant

R-phrase(s)

: R43  
R50/53

May cause sensitisation by skin contact.  
Very toxic to aquatic organisms, may cause  
long-term adverse effects in the aquatic  
environment.

S-phrase(s)

: S 7

Keep container tightly closed.

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S24	Avoid contact with skin.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S29	Do not empty into drains.
S37/39	Wear suitable gloves and eye/face protection.
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Hazardous components which must be listed on the label:

- E/Z 3-METHYL-5-CYCLOTETRADECEN-1-ONE 259854-70-1

## 2.3 Other hazards

no data available

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Chemical Name	CAS-No. EINECS-No. / ELINCS No.	Concentration [%]
E/Z 3-METHYL-5-CYCLOTETRADECEN-1-ONE	259854-70-1 452-280-2	>= 50 - <= 100

Hydrocarbons : 0 %

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. 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	: If on skin, rinse well with water.

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- 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

## SECTION 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.

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## SECTION 6. Accidental release measures

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

Personal precautions : Use personal protective equipment.

### 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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

not applicable

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
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.

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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 use(s)

Specific use(s) : no data available

## SECTION 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

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.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid  
Form : liquid  
Colour : colourless to Pale yellow  
Taste : not determined  
Odour : Musky, Powdery, Ambery, woody

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Odour Threshold	: 0,7748 ng/l
Flash point	: 134 °C Method: Pensky-Martens closed cup
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability (solid, gas)	: no data available
Oxidizing properties	: Unlikely
Auto-ignition temperature	: 246 °C Method: A15
Decomposition temperature	: no data available
Molecular weight	: 222,40 g/mol
pH	: no data available
Melting point	: < -50 °C
Boiling point	: 258 °C at 1 013 hPa
Vapour pressure	: 0,009 hPa at 20 °C Method: OECD Test Guideline 104
Density	: 931,97 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: 5,6 Method: OECD Test Guideline 117
Viscosity, kinematic	: no data available
Relative vapour density	: no data available
Surface tension	: 61,4 mN/m at 20 °C Method: OECD Test Guideline 115
Evaporation rate	: no data available
Explosive properties	: no data available

## SECTION 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

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## 10.6 Hazardous decomposition products

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

## SECTION 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 423

**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 of administration)** : No data is available on the product itself.

#### 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 sensitisation

Sensitisation : LLNA mouse  
Result: The product is a skin sensitiser, sub-category 1B.  
Method: OECD Test Guideline 429

#### Germ cell mutagenicity

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Genotoxicity in vitro : Ames test  
negative  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
  
Chromosome aberration test in vitro  
negative  
Method: Mutagenicity (in vitro mammalian cytogenetic test)

### **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**

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 : No data is available on the product itself.

### **Target Organ Systemic Toxicant - Repeated exposure**

#### **Aspiration hazard**

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

### **Phototoxicity**

Phototoxicity : Phototoxicity  
Result:negative

**Further information** : no data available

## **SECTION 12. Ecological information**

### **12.1 Toxicity**

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : EC50: 0,58 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)

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Method: OECD Test Guideline 202

Toxicity to algae : ErC50: 2,3 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: OECD Test Guideline 201

: NOEC: 0,026 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: OECD Test Guideline 201

M-Factor

E/Z 3-METHYL-5-CYCLOTETRADECEN-1-ONE : 1

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.  
70 %  
Method: OECD Test Guideline 301 F  
Remarks:  
The 10 day time window criterion is not fulfilled.  
Result: Inherently biodegradable.  
70 %  
Method: OECD Test Guideline 301 F  
Remarks:  
The 10 day time window criterion is not fulfilled.

## 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

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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.

## SECTION 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.

## SECTION 14. Transport information

### ADR/RID/ADN

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Methyl-cyclotetradecenone)

Transport hazard class(es) : 9

Packing group : III

Hazard Identification Number : 90

Labels : 9

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Tunnel restriction code : (E)  
Environmentally hazardous : yes

## IATA/ICAO

UN number : 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Methyl-cyclotetradecenone)

Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

Packing instruction (CAO) : 964  
Packing instruction (PAX) : 964  
Packing instruction (Ltd. Qty.) : Y964

## IMDG

UN number : 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Methyl-cyclotetradecenone)

Class : 9  
Packing group : III  
Labels : 9  
EmS Fire : F-A  
EmS Spillage : S-F

Marine pollutant : yes  
Methyl-cyclotetradecenone

IMDG Code Segregation Group : None

## SECTION 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: 9

### 15.2 Chemical Safety Assessment

no data available

## SECTION 16. Other information

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

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R43  
R50/53

May cause sensitisation by skin contact.  
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.**

H317  
H400  
H410

May cause an allergic skin reaction.  
Very toxic to aquatic life.  
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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