

**GERANYL ACETONE**

Version 2.0

Revision Date 13 DEC 2012

Print Date 04 FEB 2013

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

**1.1 Product identifier**

Sales No. : 5468501  
GERANYL ACETONE

Substance name : 6,10-DIMETHYL-5,9-UNDECADIEN-2-ONE (CIS & TRANS)  
Identifier

CAS : 689-67-8  
EINECS : 211-711-2

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

Intended Use Fragrances : Perfumery or flavor 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)**

Skin irritation, Category 2 H315: Causes skin irritation.  
Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

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

Irritant R38: Irritating to skin.  
Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2 Label elements**

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



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Hazard pictograms	:	 
Signal word	:	Warning
Hazard statements	:	H315 Causes skin irritation. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves. <b>Response:</b> P332 + P313 If skin irritation occurs: Get medical advice/attention. P391 Collect spillage. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

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

Hazard pictograms	:	 
		Irritant      Dangerous for the environment
R-phrases	:	R38 Irritating to skin. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases	:	S37 Wear suitable gloves. 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. EINECS-No. / ELINCS No.	Concentration [%]
6,10-DIMETHYLUNDECA- 5,9-DIEN-2-ONE	689-67-8 211-711-2	>= 50 - <= 100

Hydrocarbons : 0 %

### 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 skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- 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

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

Treatment : no data available

**5. Firefighting measures**

**5.1 Extinguishing media**

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

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 : 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.

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**6.4 Reference to other sections**

not applicable

**7. Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : Do not breathe vapours/dust.  
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.

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**

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**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 : When using do not eat or drink.  
When using do not smoke.  
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 to Pale yellow
- Taste : Floral
- Odour : Floral, Fresh, Rosy, mild
- Odour Threshold : 5,019 ng/l
- Flash point : 101 °C
- Lower explosion limit : not determined
- Upper explosion limit : not determined
- Flammability (solid, gas) : no data available
- Oxidizing properties : no data available
- Autoignition temperature : no data available
- Decomposition temperature : no data available
- Molecular Weight : 194,30 g/mol
- pH : no data available
- Melting point : not determined
- Boiling point : 247 °C at 1 013 hPa
- Vapour pressure : 0,008 hPa at 20 °C
- Density : 871,42 kg/m<sup>3</sup> at 20 °C

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Bulk density	: not applicable
Water solubility	: no data available
Solubility/qualitative	: slightly soluble
Partition coefficient: n-octanol/water	: log Pow: 3,9 Method: OECD Test Guideline 117
Viscosity, kinematic	: no data available
Relative vapour density	: no data available
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: > 5 000 mg/kg

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

**Acute dermal toxicity** : LD50 rabbit

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Dose: > 5 000 mg/kg

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

**Skin corrosion/irritation**

Skin irritation : Species: rabbit  
Mild skin irritation

**Serious eye damage/eye irritation**

Eye irritation : Species: rabbit  
Very slightly irritating

**Respiratory or skin sensitization**

Sensitisation : Skin sensitization Human  
Result: Not sensitizing  
at 10 % in Petrolatum

**Germ cell mutagenicity**

Germ cell mutagenicity : No data is available on the product itself.

**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.

**Aspiration hazard**

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

**Phototoxicity**

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Phototoxicity : No data is available on the product itself.

**Further information** : no data available

**12. Ecological information**

**12.1 Toxicity**

Toxicity to fish : no data available  
Toxicity to daphnia and other aquatic invertebrates : no data available  
Toxicity to algae : no data available  
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 : no data available

**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 : no data available

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(COD)  
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. Toxic to aquatic life with long lasting effects.

### 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.  
(6,10-Dimethylundeca-5,9-dien-2-one)  
Transport hazard class(es) : 9  
Packing group : III  
Hazard identification No : 90  
Labels : 9  
Tunnel restriction code : (E)  
Environmentally hazardous : yes

#### IATA/ICAO

UN number : 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(6,10-Dimethylundeca-5,9-dien-2-one)  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

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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.  
(6,10-Dimethylundeca-5,9-dien-2-one)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Fire : F-A  
EmS Spillage : S-F  
  
Marine pollutant : yes  
6,10-Dimethylundeca-5,9-dien-2-one

**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: 1  
VwVwS  
ZDE\_WGK Update: 2009-07-27

**15.2 Chemical Safety Assessment**

no data available

**16. Other information**

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

R38 Irritating to skin.  
R51/53 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.**

H315 Causes skin irritation.  
H411 Toxic to aquatic life with long lasting effects.

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