

**VERDALIA**

Version 1.2

Revision Date 03 APR 2012

Print Date 19 NOV 2012

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

**1.1 Product identifier**

Sales No. : 1399463  
VERDALIA

Substance name : 3A,4,5,6,7,7A-HEXAHYDRO-4,7-METHANO-5-METHOXY-1(3)H-INDENE

Identifier  
CAS : 27135-90-6  
CAS : 53018-24-9  
EINECS : 248-247-5  
EINECS : 258-296-4

**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)**

Eye irritation, Category 2 H319: Causes serious eye irritation.

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

Irritant R36: Irritating to eyes.

**2.2 Label elements**

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

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Hazard pictograms

:



Signal word

:

Warning

Hazard statements

:

H319

Causes serious eye irritation.

Precautionary statements

:

**Prevention:**

P264

Wash skin thoroughly after handling.

P280

Wear protective gloves/ eye protection/ face protection.

**Response:**

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

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

Hazard pictograms

:



Irritant

R-phrases

:

R36

Irritating to eyes.

S-phrases

:

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**2.3 Other hazards**

no data available

**3. Composition/information on ingredients**

**3.1 Substances**

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Chemical Name	CAS-No. EINECS-No. / ELINCS No.	Concentration [%]
3a,4,5,6,7,7A- HEXAHYDRO-4,7- METHANO-5-METHOXY- 1(3)H-INDENE	27135-90-6 258-296-4	<= 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 : no data available  
In case of eye contact : Immediately flush eye(s) with plenty of water.  
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

#### 5. Fire-fighting measures

##### 5.1 Extinguishing media

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

Unsuitable extinguishing media : no data available

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

Specific hazards during fire fighting : no data available

**5.3 Advice for firefighters**

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

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**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 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

**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

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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.  
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  
Wear face-shield and protective suit for abnormal processing problems.  
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.

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When using do not smoke.  
Wash hands before breaks and at the end of workday.

**Environmental exposure controls**

General advice : 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, Pale yellow
Taste	: not determined
Odour	: Powerful, Floral, green, fruity
Odour Threshold	: no data available
Flash point	: 88 °C Method: Pensky-Martens 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	: no data available
Decomposition temperature	: no data available
Molecular Weight	: 164,50 g/mol
pH	: no data available
Melting point	: not determined
Boiling point	: 222 °C at 1 013 hPa
Vapour pressure	: 0,0107 hPa at 20 °C
Density	: 1 010,96 kg/m <sup>3</sup> at 20 °C
Bulk density	: not applicable
Water solubility	: no data available
Solubility/qualitative	: no data available
Partition coefficient: n- octanol/water	: no data available
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**

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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 mouse  
Dose: 2 500 mg/kg

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

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

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

**Skin corrosion/irritation**

Skin irritation : May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation**

Eye irritation : May cause irreversible eye damage.

**Respiratory or skin sensitization**

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Sensitisation : No data is available on the product itself.

**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**

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

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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 (COD) : no data available  
Adsorbed organic bound halogens (AOX) : no data available  
Additional ecological information : no data available

**13. Disposal considerations**

**13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.  
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.

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Dispose of in accordance with local regulations.

**14. Transport information**

ADR/RID/ADN

Not dangerous goods

**IATA/ICAO**

Not dangerous goods

**IMDG**

Not dangerous goods

**15. Regulatory information**

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

Water contaminating class : WGK 2 water endangering  
(Germany)

**15.2 Chemical Safety Assessment**

no data available

**16. Other information**

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

R36 Irritating to eyes.

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

H319 Causes serious eye irritation.

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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