

## 103229 TABANON

Version 9

Revision Date 26.08.2014

Print Date 11.11.2014

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Commercial Product Name : TABANON  
Material number : 103229  
Substance name : 4-(2-Butenylidene)-3,5,5-trimethylcyclohex-2-en-1-one  
CAS-No. : 13215-88-8, 163440-97-9  
EC-No. : 236-187-2

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

Use of the Substance/Mixture : Fragrance

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

Company : Holzminden  
Muehlenfeldstrasse 1  
D-37603 Holzminden  
Telephone : +495531900  
Telefax : +495531901649  
E-mail address : sds@symrise.com

For further information, please contact:  
Symrise AG - Tel.: +49 / (0)5531 / 90-0

#### 1.4 Emergency telephone number

Symrise AG - Tel.: +49 / (0)5531 / 90-0

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Acute toxicity, Category 4, Oral H302  
Skin sensitisation, Category 1 H317  
Chronic aquatic toxicity, Category 3 H412

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

Xn; R22  
Xi; R43  
R52/53

#### 2.2 Label elements


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

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Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	H302 H317 H412	Harmful if swallowed. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P261  P264 P273 P280 <b>Response:</b> P302 + P352  P333 + P313	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves.  IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention.

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

Symbol(s)	:	Xn	Harmful
R-phrases(s)	:	R22 R52/53  R43	Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause sensitisation by skin contact.
S-phrases(s)	:	S24/25 S61	Avoid contact with skin and eyes. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

### 2.3 Other hazards

no data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical characterization	:	4-(2-Butenylidene)-3,5,5-trimethylcyclohex-2-en-1-one
Molecular weight	:	222,84 g/mol
Total formula	:	C13-H18-O
CAS-No.	:	13215-88-8, 163440-97-9
EINECS-No. / ELINCS No.	:	236-187-2

### 3.2 Mixtures

#### Hazardous components

not applicable

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**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air.
- Skin contact : Take off all contaminated clothing immediately.  
If symptoms persist, call a physician.
- Eye contact : Immediately flush eye(s) with plenty of water.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
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.  
If accidentally swallowed obtain immediate medical attention.

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

no data available

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

no data available

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which shall not be used for safety reasons : High volume water jet

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

- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.

**5.3 Advice for firefighters**

- Special protective equipment 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.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Personal precautions : Ensure adequate ventilation.  
Use personal protective equipment.

**6.2 Environmental precautions**

Environmental precautions : Avoid subsoil penetration.  
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 : Dam up.  
Wipe up with absorbent material (e.g. cloth, fleece).

Additional advice : Local authorities should be advised if significant spillages cannot be contained.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

**6.4 Reference to other sections**

For personal protection see section 8.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8.

Advice on protection against fire and explosion : When using do not smoke.

**7.2 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.

**7.3 Specific end use(s)**

Fragrance

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

none

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**8.2 Exposure controls**

**Engineering measures**

none

**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Wear chemicals-resistant gloves, e.g. safety gloves of chloroprene Level 2 or of butyl rubber Level 6.
- Eye protection : Safety glasses
- Skin and body protection : Lightweight protective clothing
- Hygiene measures : Wash hands before breaks and immediately after handling the product.
- Protective measures : When using, do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

**Appearance**

- Form : clear liquid
- Colour : pale yellow to yellow-brown
- Odour : sweet-tobacco

**Safety data**

- Flash point : > 101 °C
- Water solubility : immiscible
- Relative density : 0,9850 - 1,0050 at 20 °C (relation to density of water at 4°C)
- Vapour pressure : 0,002 hPa at 20 °C  
< 1 kPa at 50 °C (calculated)
- Boiling point : no data available
- Melting point/freezing point : no data available
- Partition coefficient: n-octanol/water : log Pow: 3,3
- pH : no data available
- Viscosity, dynamic : no data available
- Viscosity, kinematic : no data available
- Evaporation rate : no data available
- Flammability (solid, gas) : no data available
- Ignition temperature : no data available

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Minimum ignition energy	:	no data available
Auto-ignition temperature	:	no data available
Oxidizing properties	:	no data available
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available
Conductivity	:	no data available
Bulk density	:	no data available
Solubility/qualitative	:	no data available
Solubility in other solvents	:	no data available
Impact sensitivity	:	no data available
Burning number	:	no data available
Relative vapour density	:	no data available

### 9.2 Other data

None.

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	:	no data available
<b>10.2 Chemical stability</b>	:	no data available
<b>10.3 Possibility of hazardous reactions</b>	:	No dangerous reaction known under conditions of normal use.
<b>10.4 Conditions to avoid</b>	:	no data available
<b>10.5 Incompatible materials to avoid</b>	:	no data available
<b>10.6 Hazardous decomposition products</b>	:	no data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute oral toxicity	:	LD50 rat: 1.035 mg/kg, OECD Test Guideline 401
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available
Repeated dose toxicity	:	no data available
Acute toxicity (other routes of administration)	:	no data available
Skin irritation	:	Humans: No skin irritation @ 10 %

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Eye irritation	:	rabbit: Mild eye irritation @ 10 %
Sensitisation	:	guinea pig: Sensitizing effect.
Mutagenicity	:	Not mutagenic in Ames Test.
Carcinogenicity	:	no data available
Reproductive toxicity	:	no data available
Teratogenicity	:	no data available
Specific target organ toxicity - single exposure	:	no data available
Specific target organ toxicity - repeated exposure	:	no data available
Aspiration toxicity	:	no data available

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Acute toxicity Aquatic invertebrates : EC50: 22,5 mg/l; Daphnia magna, OECD 202 / ISO 6341

#### 12.2 Persistence and degradability

Not readily biodegradable.  
3 %/28 d, OECD 301D

#### 12.3 Bioaccumulative potential

no data available

#### 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

Harmful to aquatic life with long lasting effects.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 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.

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### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN number

Not classified as dangerous in the meaning of transport regulations.

#### 14.2 Proper shipping name

Not classified as dangerous in the meaning of transport regulations.

#### 14.3 Transport hazard class

Not classified as dangerous in the meaning of transport regulations.

#### 14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

#### 14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

#### 14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not classified as dangerous in the meaning of transport regulations.

### SECTION 15: REGULATORY INFORMATION

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

##### National legislation

Risk classification according : Exempt  
to BetrSichV (Germany)

Water contaminating class : WGK 2 (water endangering)  
(Germany) 4437 VwVwS Annex 3

#### 15.2 Chemical Safety Assessment

no data available

### SECTION 16: OTHER INFORMATION

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

R22	Harmful if swallowed.
R43	May cause sensitisation by skin contact.
R52/53	Harmful 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.:

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

#### Further information

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



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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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.

Any data changes with reference to previous versions are marked by a vertical line in front of the concerned paragraph.