

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## GREEN TEA GIVCO 228

Version 1.0

Revision Date 24 JAN 2011

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

#### 1.1 Product identifier

Sales No. : 21218083  
GREEN TEA GIVCO 228

Substance name : MULTI-COMPONENT MIXTURE

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

Intended Use Fragrances : Perfume compound

#### 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

+41227809700

### 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.  
Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

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

Dangerous for the environment R52/53: Harmful 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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# Givaudan®

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Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H319  
H412

Causes serious eye irritation.  
Harmful to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P264  
P273  
P280

Wash skin thoroughly after handling.  
Avoid release to the environment.  
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.

**Disposal:**

P501

Dispose of contents/ container to an approved waste disposal plant.

### Additional Labelling:

EUH208 Contains: 2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE, 2-ETHOXY-4-(METHOXYMETHYL)PHENOL. May produce an allergic reaction.

### Labelling according to EC Directives (1999/45/EC)

R-phrase(s)

: R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

: S60

This material and its container must be disposed of as hazardous waste.

Special labelling of certain mixtures

: Caution - this mixture contains a substance not yet fully tested.

Sensitising components

: 2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE  
2-ETHOXY-4-(METHOXYMETHYL)PHENOL

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May produce an allergic reaction.

**2.3 Other hazards**

no data available

**3. Composition/information on ingredients****3.2 Mixtures****Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentrat ion [%]
4-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)BUTAN-2-ONE	17283-81-7 241-318-1	N; R51/53	Aquatic Chronic 2; H411	>= 2,5 - < 5
2-(4-METHYLCYCLOHEX-3-EN-1-YL)PROPAN-2-OL	8000-41-7 232-268-1	Xi; R38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 5
2-PHENYLETHYL ACETATE	103-45-7 203-113-5	Xi; R36	Eye Irrit. 2; H319	>= 1 - < 5
3-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACETATE (CIS & TRANS)	31846-06-7 250-837-2	Xi; R38	Skin Irrit. 2; H315	>= 1 - < 5
1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPTANE-2-SPIRO-4'-(2'-ISOPROPYL-1',3'-DIOXANE)	188199-50-0 443-460-1	N; R50/53 Xi; R41-R38	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
2,6-DIMETHYLHEPTAN-2-OL	13254-34-7 236-244-1	Xi; R36/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 5
$\beta$ -methyl-3-(1-methylethyl)-benzenepropanal	125109-85-5 412-050-4	N; R51-R53	Aquatic Chronic 2; H411	>= 0,1 - < 1

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2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE	68039-49-6 268-264-1	R52/53 Xi; R36/38-R43	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412 Eye Irrit. 2; H319	$\geq 0,1 - < 1$
2-CYCLOHEXYL-1,6-HEPTADIEN-3-ONE	313973-37-4 441-580-9	N; R50/53 Xi; R41-R38	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,25 - < 1$
2-ETHOXY-4-(METHOXYMETHYL)PHENOL	5595-79-9 447-640-0	Xn; R22 Xi; R43	Acute Tox. 4; H302 Skin Sens. 1; H317	$\geq 0,1 - < 1$

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Hydrocarbons : 0,2 %

**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**

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Symptoms : no data available

Risks : no data available

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

Treatment : no data available

**5. Fire-fighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

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

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

**5.3 Advice for firefighters**

Special protective equipment for fire-fighters : 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  
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.  
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, Pale yellow
- Taste : not determined
- Odour : green
- Odour Threshold : not applicable
- Flash point : 85 °C Method: Grabner miniflash closed cup
- Lower explosion limit : not determined
- Upper explosion limit : not determined
- Flammability (solid, gas) : not applicable
- Oxidizing properties : no data available
- Autoignition temperature : not determined
- Decomposition temperature : no data available
- pH : not determined
- Melting point : not determined
- Boiling point : not determined
- Vapour pressure : 0,1293 hPa at 20 °C Calculated (92,9 %)
- Density : 943,97 kg/m<sup>3</sup> at 20 °C
- Bulk density : not applicable

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Water solubility	: not determined
Solubility/qualitative	: practically insoluble
Partition coefficient: n-octanol/water	: not applicable
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** : No data is available on the product itself.

##### Acute oral toxicity

4-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)BUTAN-2-ONE : LD50: 2 000 mg/kg Species: rat

2-(4-METHYLCYCLOHEX-3-EN-1-YL)PROPAN-2-OL : LD50: 4 000 mg/kg Species: rat

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	LD50: 2 830 mg/kg	Species: mouse
2-PHENYLETHYL ACETATE	: LD50: 3 670 mg/kg	Species: rat
	LD50: 3 670 mg/kg	Species: mouse
	LD50: 3 670 mg/kg	Species: guinea pig
3-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACETATE (CIS & TRANS)	: LD50: > 2 000 mg/kg	Species: rat
1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPTANE-2-SPIRO-4'-(2'-ISOPROPYL-1',3'-DIOXANE)	: LD50: 2 000 mg/kg	Species: rat
2,6-DIMETHYLHEPTAN-2-OL	: LD50: 5 000 mg/kg	Species: rat
$\beta$ -methyl-3-(1-methylethyl)-benzenepropanal	: LD50: > 2 000 mg/kg	Species: rat
2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE	: LD50: > 3 100 mg/kg	Species: rat
2-CYCLOHEXYL-1,6-HEPTADIEN-3-ONE	: LD50: > 2 000 mg/kg	Species: rat
2-ETHOXY-4-(METHOXYMETHYL)PHENOL	: LD50: > 300 mg/kg	Species: rat
<b>Acute inhalation toxicity</b>	: No data is available on the product itself.	
<b>Acute dermal toxicity</b>	: No data is available on the product itself.	
<b>Acute dermal toxicity</b>		
2-(4-METHYLCYCLOHEX-3-EN-1-YL)PROPAN-2-OL	: LD50: > 3 000 mg/kg	Species: rabbit
2-PHENYLETHYL ACETATE	: LD50: 6 210 mg/kg	Species: rabbit

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1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPTANE-2-SPIRO-4'-(2'-ISOPROPYL-1',3'-DIOXANE) : LD50: 2 000 mg/kg Species: rabbit

LD50: 2 000 mg/kg Species: rat

2,6-DIMETHYLHEPTAN-2-OL : LD50: > 5 000 mg/kg Species: rabbit

$\beta$ -methyl-3-(1-methylethyl)-benzenepropanal : LD50: > 2 000 mg/kg Species: rat

2,4-DIMETHYLCYCLOHEX-3-ENE-1-CARBALDEHYDE : LD50: 5 000 mg/kg Species: rabbit

2-CYCLOHEXYL-1,6-HEPTADIEN-3-ONE : LD50: > 2 000 mg/kg Species: rat

2-ETHOXY-4-(METHOXYMETHYL)PHENOL : LD50: > 2 000 mg/kg Species: rat

**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

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.

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### 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 : 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  
M-Factor  
1,7,7-TRIMETHYLBICYCLO(2.2.1)HEPTANE-2-SPIRO-4'-(2'-ISOPROPYL-1',3'-DIOXANE)  
M-Factor : 1  
2-CYCLOHEXYL-1,6-HEPTADIEN-3-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 : no data available

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the environment

### 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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful 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.

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**14. Transport information**

ADR/RID/ADN

Not dangerous goods

**IATA/ICAO**

Not dangerous goods

**IMDG**

Not dangerous goods

49CFR: no dangerous good in non-bulk packaging

**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**

R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51	Toxic to aquatic organisms.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.

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

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H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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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