

BLACK AGAR GIVCO 215 21214743

Version 9.0

Revision Date 11 JUL 2013

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

1.1 Product identifier

Sales No. : BLACK AGAR GIVCO 215 21214743

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

+33172110003

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
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)

Harmful	R65: Harmful: may cause lung damage if swallowed.
Sensitising	R43: May cause sensitization by skin contact.
Dangerous for the environment	R50/53: Very 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	:	Danger	
Hazard statements	:	H304	May be fatal if swallowed and enters airways.
		H317	May cause an allergic skin reaction.
		H410	Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:	
		P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
		P273	Avoid release to the environment.
		P280	Wear protective gloves.
		Response:	
		P315	Get immediate medical advice/ attention.
		P331	Do NOT induce vomiting.
		P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.

Hazardous components which must be listed on the label:

- 2,6,6,8-tetramethyl-9-acetyl-tricyclo{5.3.1.0(1,5)}undec-8-ene 32388-55-9
- (R)-p-mentha-1,8-diene 5989-27-5
- 2-PROPENOIC ACID, 3-PHENYL-, PHENYLMETHYL ESTER 103-41-3
- 2-ETHOXY-4-(METHOXYMETHYL)PHENOL 5595-79-9

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

Hazard pictograms : 

Harmful Dangerous for the environment

R-phrases(s)	:	R43	May cause sensitization by skin contact.
		R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
		R65	Harmful: may cause lung damage if

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swallowed.

S-phrase(s) : S24 Avoid contact with skin.
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.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Hazardous components which must be listed on the label:

- 2,6,6,8-tetramethyl-9-acetyl- 32388-55-9
tricyclo{5.3.1.0(1,5)}undec-8-ene
- (R)-p-mentha-1,8-diene 5989-27-5

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)	Concentration [%]
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	>= 5 - < 10
2,4-DIMETHYL-2-(1,1,4,4,-TETRAMETHYLTETRALIN-6-YL)-1,3-DIOXOLANE	131812-67-4 412-950-7 01-0000016016-79-0004	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 5 - < 10
2,6,6,8-tetramethyl-9-acetyl-tricyclo{5.3.1.0(1,5)}undec-8-ene	32388-55-9 251-020-3 / /	Xi; R43 N; R50/53	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 5 - < 10

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2-acetyl-1,2,3,4,5,6,7,8-octahydro-1,2,8,8-tetramethylnaphthalene & 2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene	185429-83-8 425-570-1 01-0000017197-66-0001	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 5
3-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACETATE (CIS & TRANS)	31846-06-7 250-837-2	Xi; R38	Skin Irrit. 2; H315	>= 1 - < 5
A mixture of: 6,7-epoxy-1,2,3,4,5,6,7,8-octahydro-1,1,2,4,4,7-hexamethylnaphthalene ; 7,8-epoxy-1,2,3,4,6,7,8,8a-octahydro-1,1,2,4,4,7-hexamethylnaphthalene	94400-98-3 426-970-9 01-0000017336-70-0001	N; R50-R53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 /	R10 Xi; R38 R43 N; R50-R53 Xn; R65	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
1,4-DIMETHYL-7-ISOPROPENYL-DELTA-9,10-OCATHYDRO-AZULENE	88-84-6 201-860-1	Xn; R65 Xi; R38	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304	>= 1 - < 3
3-METHYL-5-(2,2,3-TRIMETHYL-3-CYCLOPENTEN-1-YL)-4-PENTEN-2-OL	67801-20-1 267-140-4 01-2119940039-39-0000	N; R51/53	Aquatic Chronic 2; H411	>= 1 - < 2,5
benzyl benzoate	120-51-4 204-402-9 / /	Xn; R22 N; R51-R53	Acute Tox. 4; H302 Aquatic Chronic 2; H411	>= 1 - < 2,5

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alpha cedrene	469-61-4 207-418-4	N; R50/53 Xn; R65	Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
3,4,4A,5,6,7,8,8A-OCTAHYDRO-6-ISOPROPYLNAPHTHALENE-2(1H)-ONE	34131-98-1 251-840-1 /	Xi; R38	Skin Irrit. 2; H315	>= 1 - < 5
(1-METHYL-2-(1,2,2-TRIMETHYLBICYCLO(3.1.0)-HEX-3-YLMETHYL)CYCLOPROPYL)METHANOL	198404-98-7 427-900-1 01-0000017424-73-0003	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
2-PROPENOIC ACID, 3-PHENYL-, PHENYLMETHYL ESTER	103-41-3 203-109-3 / /	N; R51/53 Xi; R43	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0,25 - < 1
[3R-(3a,3aβ,6a,7β,8aa)]-octahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-6-ol	77-53-2 201-035-6 /	N; R51/53	Aquatic Chronic 2; H411	>= 0,25 - < 1
12-METHYL-9-TETRADECEN-14-OLIDE (CIS & TRANS)	329925-33-9 438-810-5 01-0000018342-76-0001	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
2,2,3',7',7'-PENTAMETHYLSPIRO(1,3-DIOXANE-5-2'-NORCARANE) (DIASTEREOISOMERS)	121251-67-0 416-930-9 01-0000016375-69-0001	Xi; R38 N; R51/53	Skin Irrit. 2; H315 Aquatic Chronic 2; H411	>= 0,25 - < 1
2-ETHOXY-4-(METHOXYMETHYL)PHENOL	5595-79-9 447-640-0 01-0000018892-61-0001	Xn; R22 Xi; R43	Acute Tox. 4; H302 Skin Sens. 1B; H317	>= 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 : 11,5 %

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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.
Symptoms of poisoning may only appear several hours later.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
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.
- 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 induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

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. Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media :
Dry chemical
Alcohol-resistant foam
Water spray
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

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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. Ensure adequate ventilation.

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

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.

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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

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.

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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	: Golden yellow to Brownish yellow
Taste	: not determined
Odour	: Ambery, woody
Odour Threshold	: not applicable
Flash point	: 99 °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	: 0,0322 hPa at 20 °C Calculated (98,1 %)
Density	: 988,97 kg/m ³ at 20 °C
Bulk density	: not applicable
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.

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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 : Acute toxicity estimate
Dose: > 2 000 mg/kg
Method: Calculation method

Acute oral toxicity

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

2,4-DIMETHYL-2-(1,1,4,4,-TETRAMETHYLTETRALIN-6-YL)-1,3-DIOXOLANE : LD50: > 2 000 mg/kg Species: rat

2,6,6,8-tetramethyl-9-acetyl-tricyclo{5.3.1.0(1,5)}undec-8-ene : LD50: > 5 000 mg/kg Species: rat

2-acetyl-1,2,3,4,5,6,7,8-octahydro-1,2,8,8-tetramethylnaphthalene&2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene : LD50: > 2 000 mg/kg Species: rat

3-(1,1-DIMETHYLETHYL)CYCLOHEXYL ACETATE (CIS & TRANS) : LD50: > 2 000 mg/kg Species: rat

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A mixture of: 6,7-epoxy- 1,2,3,4,5,6,7,8-octahydro- 1,1,2,4,4,7- hexamethylnaphthalene; 7,8- epoxy-1,2,3,4,6,7,8,8a- octahydro-1,1,2,4,4,	: LD50: > 5 000 mg/kg	Species: rat
(R)-p-mentha-1,8-diene	: LD50: 4 400 mg/kg	Species: rat
	LD50: 5 600 mg/kg	Species: mouse
1,4-DIMETHYL-7- ISOPROPENYL-DELTA- 9,10-OCATHYDRO- AZULENE	: LD50: > 5 000 mg/kg	Species: rat
3-METHYL-5-(2,2,3- TRIMETHYL-3- CYCLOPENTEN-1-YL)-4- PENTEN-2-OL	: LD50: > 5 000 mg/kg	Species: rat
benzyl benzoate	: LD50: 1 680 mg/kg	Species: rabbit
	LD50: 2 000 mg/kg	Species: rat
	LD50: 2 240 mg/kg	Species: cat
alpha cedrene	: LD50: > 5 000 mg/kg	Species: rat
3,4,4A,5,6,7,8,8A- OCTAHYDRO-6- ISOPROPYLNAPHTHALEN E-2(1H)-ONE	: LD50: > 5 000 mg/kg	Species: rat
(1-METHYL-2-(1,2,2- TRIMETHYLBICYCLO(3.1.0) -HEX-3- YLMETHYL)CYCLOPROPY L)METHANOL	: LD50: > 2 000 mg/kg	Species: rat
2-PROPENOIC ACID, 3- PHENYL-, PHENYLMETHYL ESTER	: LD50: 5 530 mg/kg	Species: rat
	LD50: 3 760 mg/kg	Species: guinea pig

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[3R-(3a,3aβ,6a,7β,8aa)]- octahydro-3,6,8,8- tetramethyl-1H-3a,7- methanoazulen-6-ol	: LD50: > 5 000 mg/kg	Species: rat
12-METHYL-9- TETRADECEN-14-OLIDE (CIS & TRANS)	: LD50: > 2 000 mg/kg	Species: rat
2,2,3',7',7'- PENTAMETHYLSPIRO(1,3- DIOXANE-5-2'- NORCARANE) (DIASTEREOISOMERS)	: LD50: > 5 100 mg/kg	Species: rat
2-ETHOXY-4- (METHOXYMETHYL)PHEN OL	: LD50: > 300 mg/kg	Species: rat
Acute inhalation toxicity	: No data is available on the product itself.	
Acute dermal toxicity	: No data is available on the product itself.	
Acute dermal toxicity 2,4-DIMETHYL-2-(1,1,4,4,- TETRAMETHYLTETRALIN- 6-YL)-1,3-DIOXOLANE	: LD50: > 2 000 mg/kg	Species: rat
2,6,6,8-tetramethyl-9-acetyl- tricyclo{5.3.1.0(1,5)}undec-8- ene	: LD50: > 2 000 mg/kg	Species: rabbit
2-acetyl-1,2,3,4,5,6,7,8- octahydro-1,2,8,8- tetramethylnaphthalene&2- acetyl-1,2,3,4,5,6,7,8- octahydro-2,3,8,8- tetramethylnaphthalene	: LD50: > 2 000 mg/kg	Species: rat
A mixture of: 6,7-epoxy- 1,2,3,4,5,6,7,8-octahydro- 1,1,2,4,4,7- hexamethylnaphthalene; 7,8- epoxy-1,2,3,4,6,7,8,8a- octahydro-1,1,2,4,4,	: LD50: > 2 000 mg/kg	Species: rat
(R)-p-mentha-1,8-diene	: LD50: > 5 000 mg/kg	Species: rabbit

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benzyl benzoate	: LD50: 4 000 mg/kg	Species: rabbit
alpha cedrene	: LD50: > 5 000 mg/kg	Species: rabbit
3,4,4A,5,6,7,8,8A- OCTAHYDRO-6- ISOPROPYLNAPHTHALEN E-2(1H)-ONE	: LD50: > 5 000 mg/kg	Species: rabbit
(1-METHYL-2-(1,2,2- TRIMETHYLBICYCLO(3.1.0) -HEX-3- YLMETHYL)CYCLOPROPY L)METHANOL	: LD50: > 2 000 mg/kg	Species: rat
2-PROPENOIC ACID, 3- PHENYL-, PHENYLMETHYL ESTER	: LD50: > 3 000 mg/kg	Species: rabbit
[3R-(3a,3aβ,6a,7β,8aa)]- octahydro-3,6,8,8- tetramethyl-1H-3a,7- methanoazulen-6-ol	: LD50: > 5 000 mg/kg	Species: rabbit
	LD50: > 5 000 mg/kg	Species: rat
2,2,3',7',7'- PENTAMETHYLSPIRO(1,3- DIOXANE-5-2'- NORCARANE) (DIASTEREOISOMERS)	: LD50: > 2 000 mg/kg	Species: rabbit
2-ETHOXY-4- (METHOXYMETHYL)PHEN OL	: 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 and/or dermatitis.

Serious eye damage/eye irritation

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Eye irritation : Vapours may cause irritation to the eyes, respiratory system and the skin.

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.

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 : The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Phototoxicity

Phototoxicity : No data is available on the product itself.

Further information : Solvents may degrease the skin.

12. Ecological information

12.1 Toxicity

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

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aquatic invertebrates	
Toxicity to algae	: no data available
M-Factor	
2,4-DIMETHYL-2-(1,1,4,4,-	: 1
TETRAMETHYLTETRALIN-	
6-YL)-1,3-DIOXOLANE	
M-Factor	
2,6,6,8-tetramethyl-9-acetyl-	: 1
tricyclo{5.3.1.0(1,5)}undec-8-	
ene	
M-Factor	
2-acetyl-1,2,3,4,5,6,7,8-	: 1
octahydro-1,2,8,8-	
tetramethylnaphthalene&2-	
acetyl-1,2,3,4,5,6,7,8-	
octahydro-2,3,8,8-	
tetramethylnaphthalene	
M-Factor	
A mixture of: 6,7-epoxy-	: 1
1,2,3,4,5,6,7,8-octahydro-	
1,1,2,4,4,7-	
hexamethylnaphthalene; 7,8-	
epoxy-1,2,3,4,6,7,8,8a-	
octahydro-1,1,2,4,4,	
M-Factor	
(R)-p-mentha-1,8-diene	: 1
M-Factor	
alpha cedrene	: 10
M-Factor	
(1-METHYL-2-(1,2,2-	: 1
TRIMETHYLBICYCLO(3.1.0)	
-HEX-3-	
YLMETHYL)CYCLOPROPY	
L)METHANOL	
M-Factor	
12-METHYL-9-	: 1
TETRADECEN-14-OLIDE	
(CIS & TRANS)	
Toxicity to bacteria	: no data available
Toxicity to fish (Chronic	: no data available
toxicity)	
Toxicity to daphnia and other	: no data available
aquatic invertebrates	
(Chronic toxicity)	
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
the environment	

Administrative information:

Report Information: SDS_GB/EN/GHS_SDS_EU_CNTRY/10

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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 : no data available

removability

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.

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

UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(2,4-Dimethyl-2-(1,1,4,4-tetramethyltetralin-6-yl)-1,3-
dioxolane, Tetramethyl-acetyl-tricycloundecene)
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.
(2,4-Dimethyl-2-(1,1,4,4-tetramethyltetralin-6-yl)-1,3-
dioxolane, Tetramethyl-acetyl-tricycloundecene)
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.
(2,4-Dimethyl-2-(1,1,4,4-tetramethyltetralin-6-yl)-1,3-
dioxolane, Tetramethyl-acetyl-tricycloundecene)
Class : 9
Packing group : III
Labels : 9
EmS Fire : F-A
EmS Spillage : S-F
Marine pollutant : yes
2,4-Dimethyl-2-(1,1,4,4-tetramethyltetralin-6-yl)-1,3-dioxolane
Tetramethyl-acetyl-tricycloundecene
IMDG Code Segregation : None
Group

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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

R10	Flammable.
R22	Harmful if swallowed.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
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.
R53	May cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.

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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