



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 1 (15)

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

#### **1.1 Product identifier**

Trade name : 5359828 Sheer Peony ext 3AN

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

Use of the Substance/Mixture : Fragrance for consumer product

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

Company : IFF (NEDERLAND) BV  
ZEVENHEUVELENWEG 60  
5048 AN TILBURG

Telephone : +31134642211

Telefax : +31134636032

E-mail address : sds@iff.com

Responsible/issuing person

#### **1.4 Emergency telephone number**

+31 13 4642 211

### ***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.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Skin sensitization, Category 1

H317: May cause an allergic skin reaction.

Chronic aquatic toxicity, Category 1

H410: Very toxic to aquatic life with long lasting effects.

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

Sensitising

R43: May cause sensitization by skin contact.

Irritant

R38: Irritating to skin.

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)**

Hazard pictograms :



Version : 1.0

Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 2 (15)

Signal word	:	Warning	
Hazard statements	:	H315 H317 H319 H410	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention:</b> P273 P280  <b>Response:</b> P302 + P352  P305 + P351 + P338	Avoid release to the environment. Wear protective gloves/ eye protection/ face protection.  IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazardous components which must be listed on the label:

- 68155-66-8 1,1,6,7-Tetramethyl-6-acetyldecalene (isomers)
- 118-58-1 benzyl salicylate
- 6259-76-3 hexyl salicylate
- 7705-14-8 limonene
- 101-86-0 alpha-hexylcinnamaldehyde
- 106-24-1 geraniol
- 65405-77-8 (Z)-3-hexenyl salicylate
- 127-51-5 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
- 107-75-5 7-hydroxycitronellal
- 106-22-9 citronellol

### 2.3 Other hazards

None reasonably foreseeable.

## 3. Composition/information on ingredients

### 3.1 Substances

Not applicable, product is a mixture.

### 3.2 Mixtures

#### Hazardous components

Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 3 (15)

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
1,1,6,7-Tetramethyl-6-acetyldecalene (isomers)	68155-66-8, 54464-57-2, 54464-59-4, 68155-67-9 915-730-3	Xi; R38 Xi; R43 N; R51/53	Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Chronic2; H411	25 - 50
1,4-dioxacycloheptadecane-5,17-dione	105-95-3 203-347-8	N; R51/53	Aquatic Chronic2; H411	2,5 - 10
1,4-dioxacyclohexadecane-5,16-dione	54982-83-1 259-423-6 05-2114094509-37	N; R50/53	Aquatic Chronic1; H410	2,5 - 10
benzyl salicylate	118-58-1 204-262-9	R43 N; R51/53	Skin Sens.1; H317 Aquatic Chronic2; H411	2,5 - 10
A mixture of: (E)-oxacyclohexadec-12-en-2-one and (E)-oxacyclohexadec-13-en-2-one and a) (Z)-oxacyclohexadec-(12)-en-2-one and b) (Z)-oxacyclohexadec-(13)-en-2-one	111879-80-2 606-092-00-4	N; R50-R53	Aquatic Acute1; H400 Aquatic Chronic1; H410	2,5 - 10
hexyl salicylate	6259-76-3 228-408-6 01-2119638275-36	Xi; R38 Xi; R43 N; R50/53	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317 Aquatic Chronic1; H410	2,5 - 10
limonene	7705-14-8 601-029-00-7	R10 Xi; R38 R43 N; R50/53	Flam. Liq.3; H226 Skin Sens.1; H317 Aquatic Chronic1; H410 Skin Irrit.2; H315 Asp. Tox.1; H304 Aquatic Acute1; H400	1 - 2,5
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0 603-101-00-3	Xi; R36	Eye Irrit.2; H319	0 - 10
alpha-hexylcinnamaldehyde	101-86-0, 165184-98-5 202-983-3 01-2119533092-50	Xi; R38 Xi; R43	Skin Irrit.2; H315 Skin Sens.1; H317	1 - 10
geraniol	106-24-1 203-377-1	Xi; R43 Xi; R38-R41	Skin Irrit.2; H315 Eye Dam.1; H318 Skin Sens.1; H317	1 - 5
(Z)-3-hexenyl salicylate	65405-77-8 265-745-8	Xi; R43 N; R50/53	Skin Sens.1; H317 Aquatic Chronic1; H410	1 - 2,5

Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 4 (15)

2-phenylethanol	60-12-8 200-456-2	Xi; R36	Eye Irrit.2; H319	0 - 10
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5 204-846-3	Xi; R43 N; R51/53	Skin Sens.1; H317 Aquatic Chronic2; H411	1 - 2,5
(ethoxymethoxy)cyclododecane	58567-11-6 261-332-1	R52/53 Xi; R38	Skin Irrit.2; H315 Eye Irrit.2; H319 Aquatic Chronic3; H412	0 - 10
7-hydroxycitronellal	107-75-5 203-518-7	R43 Xi; R36	Eye Irrit.2; H319 Skin Sens.1; H317	1 - 10
citronellol	106-22-9 203-375-0	N; R51/53 R43 Xi; R38	Skin Sens.1; H317 Skin Irrit.2; H315	1 - 2,5
[3R-(3.alpha.,3a.beta.,7.beta.,8a.alpha.)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	469-61-4 207-418-4	N; R50/53 Xn; R65	Asp. Tox.1; H304 Aquatic Chronic1; H410	0,25 - 2,5
1-(2,6,6-trimethyl-2-cyclohexen-1-yl)pent-1-en-3-one	7779-30-8 231-926-5	Xi; R43 N; R51/53	Skin Sens.1; H317 Aquatic Chronic2; H411	0,1 - 1
2-tert-butylcyclohexyl acetate	88-41-5 201-828-7	N; R51/53	Aquatic Chronic2; H411	0 - 2,5
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	28219-61-6 248-908-8	N; R50/53 Xi; R38	Aquatic Chronic1; H410 Skin Irrit.2; H315 Eye Irrit.2; H319	0,25 - 2,5
3-methyl-5-Cyclopentadecen-1-one	82356-51-2, 63314-79-4 429-900-5	R43 N; R50	Skin Sens.1; H317 Aquatic Acute1; H400	0,1 - 1
geranyl acetate	105-87-3 203-341-5	N; R51/53	Aquatic Chronic2; H411	0 - 2,5
3,7-dimethyloctan-1-ol	106-21-8 203-374-5	N; R51/53 Xi; R38	Skin Irrit.2; H315 Eye Irrit.2; H319 Aquatic Chronic2; H411	0 - 2,5
(+/-) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)-pent-4-en-2-ol	107898-54-4 411-580-3 01-0000015895-58	N; R50/53 Xi; R38	Skin Irrit.2; H315 Eye Irrit.2; H319 Aquatic Acute1; H400 Aquatic Chronic1; H410	0 - 0,25
citral	5392-40-5 226-394-6	Xi; R38 R43	Skin Irrit.2; H315 Skin Sens.1; H317	0,1 - 1

Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 5 (15)

3-methyl-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-89-0 201-231-1	Xi; R43 N; R51/53	Skin Sens.1; H317 Aquatic Chronic2; H411	0,1 - 1
1-(2,6,6-trimethyl-1-cyclohexen-1-yl)pent-1-en-3-one	127-43-5 204-843-7	Xi; R43 N; R51/53	Skin Sens.1; H317 Aquatic Chronic2; H411	0,1 - 1

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

### 4. First aid measures

#### 4.1 Description of first aid measures

- General advice : Take Risk and Safety phrases (section 15) into account.
- If inhaled : Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
- In case of skin contact : Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
- In case of eye contact : Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
- If swallowed : Rinse mouth with water and obtain medical advice.

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

- Symptoms : No information available.
- Risks : No information available.

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

- Treatment : No information available.

### 5. Fire-fighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Carbondioxide, dry chemical, foam.
- Unsuitable extinguishing media : Do not use a direct waterjet on burning material.

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

- Specific hazards during fire fighting : Water may be ineffective.

#### 5.3 Advice for firefighters

Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 6 (15)

Further information : Standard procedure for chemical fires.

### 6. Accidental release measures

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

Personal precautions : Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

#### 6.2 Environmental precautions

Environmental precautions : Keep away from drains, surface- and groundwater and soil.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

#### 6.4 Reference to other sections

Prevent spreading over a wide area (e.g. by containment or oil barriers).

### 7. Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid excessive inhalation of concentrated vapors. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chemical contact, before breaks and meals, and at the end of each work period. Contaminated clothing and shoes should be thoroughly cleaned before re-use.

If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees. Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air.

Advice on protection against fire and explosion : Keep away from ignition sources and naked flame.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas : Store in a cool, dry, ventilated area away from heat sources. Keep

Version : 1.0

Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 7 (15)

and containers

containers upright and tightly closed when not in use.

### 7.3 Specific end uses

Specific use(s) : No information available.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Components with workplace control parameters

Components	CAS-No.	Exposure limit(s)		
Cyclohexene, 1-methyl-4-(1-methylethenyl)-	7705-14-8	STEL	50 ppm	300 mg/m <sup>3</sup>
		TWA	25 ppm	140 mg/m <sup>3</sup>
Acetic acid, phenylmethyl ester	140-11-4	TWA	10 ppm	

### 8.2 Exposure controls

#### Engineering measures

Where appropriate, use closed systems to transfer and process this material.

If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant.

#### Personal protective equipment

Respiratory protection : Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures. No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient.

If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used:

- a) while engineering controls and appropriate safe work practices and/or procedures are being implemented; or
- b) during short term maintenance procedures when engineering controls are not in normal operation or are not sufficient; or
- c) if normal operational workplace vapor concentration in the air is increased due to heat ;
- d) during emergencies; or
- e) if engineering controls and operational practices are not sufficient

Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 8 (15)

to reduce airborne concentrations below an established occupational exposure limit.

- Hand protection : Avoid skin contact. Use chemically resistant gloves.
- Eye protection : Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.
- Hygiene measures : To the extent deemed appropriate, implement pre-placement and regularly scheduled ascertainment of symptoms and spirometry testing of lung function for workers who are regularly exposed to this material.  
To the extent deemed appropriate, use an experienced air sampling expert to identify and measure volatile chemicals that could be present in the workplace air to determine potential exposures and to ensure the continuing effectiveness of engineering controls and operational practices to minimize exposure.

### Environmental exposure controls

General advice : Keep away from drains, surface- and groundwater and soil.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Odour : conforms to standard
- Odour Threshold : not determined
- Flash point : 98 °C
- Lower explosion limit : not determined
- Upper explosion limit : not determined
- Flammability (solid, gas) : not determined
- Oxidizing properties : not determined
- Autoignition temperature : not determined
- pH : not determined
- Melting point : not determined
- Boiling point : not determined
- Vapour pressure : 0,05 hPa
- Density : not determined
- Water solubility : not determined
- Partition coefficient: n-octanol/water : not determined
- Solubility in other solvents : not determined
- Viscosity, dynamic : not determined
- Viscosity, kinematic : not determined

Version : 1.0

Revision Date : 10.06.2011





# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 9 (15)

Relative vapour density : not determined  
Evaporation rate : not determined

### 9.2 Other information

Refractive index : Note: not determined

## 10. Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Note: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : Direct sources of heat.

### 10.5 Incompatible materials

Materials to avoid : Avoid contact with strong acids, alkali or oxidizing agents.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide and unidentified organic compounds may be formed during combustion.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral toxicity : Acute toxicity estimate: 99.192,4 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 13.220,38 mg/kg  
Method: Calculation method

#### Skin corrosion/irritation

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-

: Species: human  
Result: Skin irritation

Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 10 (15)

naphthyl)ethan-1-one Method: OECD 439

### Serious eye damage/eye irritation

geraniol : Species: rabbit  
Result: Severe eye irritation  
Method: OECD Test Guideline 405  
Test substance: (undiluted)

### Respiratory or skin sensitization

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one : LLNA  
Species: mouse  
Result: Causes sensitization.  
Method: OECD 429

### Germ cell mutagenicity

Information on ingredients with chronic toxicity hazard(s) is available upon request.

### Carcinogenicity

Information on ingredients with chronic toxicity hazard(s) is available upon request.

### Reproductive toxicity

Information on ingredients with chronic toxicity hazard(s) is available upon request.

### Target Organ Systemic Toxicant - Single exposure

Information on ingredients with chronic toxicity hazard(s) is available upon request.

### Target Organ Systemic Toxicant - Repeated exposure

Information on ingredients with chronic toxicity hazard(s) is available upon request.

### Aspiration hazard

No test data available. Ingredients with an aspiration hazard are identified in section 3.

## 12. Ecological information

### 12.1 Toxicity

Toxicity to fish

1,4-dioxacyclohexadecane-5,16-dione : LC50: 0,88 mg/l  
Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 11 (15)

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Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates.

1,4-dioxacyclohexadecane-5,16-dione : EC50: > 14 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

Toxicity to algae

1,4-dioxacyclohexadecane-5,16-dione : EC50: 17 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata  
Method: OECD Test Guideline 201

NOEC: 1,9 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata  
Method: OECD Test Guideline 201

### 12.2 Persistence and degradability

Biodegradability

1,4-dioxacyclohexadecane-5,16-dione : aerobic  
Result: Readily biodegradable.  
100 %  
Method: CO2 Evolution Test  
Remarks:  
IFF

### 12.3 Bioaccumulative potential

Bioaccumulation

1,4-dioxacyclohexadecane-5,16-dione : Remarks:  
Does not bioaccumulate.

### 12.4 Mobility in soil

Mobility : no data available

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Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 12 (15)

Distribution among environmental compartments

1,4-dioxacyclohexadecane-5,16- : Adsorption/Soil  
dione Medium: Soil  
Method: OECD 121  
Log Koc: 3,3

### 12.5 Results of PBT and vPvB assessment

This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6 Other adverse effects

Additional ecological : There is no data available for this product.  
information

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### ADR

UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(ETHYLENE DODECANEDIOATE)  
Labels : 9  
Packing group : III  
Environmentally hazardous : yes

### IATA

UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(ETHYLENE DODECANEDIOATE)  
Labels : 9  
Packing group : III  
Environmentally hazardous : yes

### IMDG

UN number : 3082

Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 13 (15)

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(ETHYLENE DODECANEDIOATE)  
Labels : 9  
Packing group : III  
Marine pollutant : yes  
  
Special precautions for user : No special precautions required.

### 15. Regulatory information

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

##### Labelling # EU Directives 67/548/EEC or 1999/45/EC—

Symbol(s) : Xi Irritant  
N Dangerous for the environment  
  
R-phrase(s) : R38 Irritating to skin.  
R43 May cause sensitization by skin contact.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
  
S-phrase(s) : S24 Avoid contact with skin.  
S37 Wear suitable gloves.  
S61 Avoid release to the environment. Refer to special instructions/  
Safety data sheets.

Water contaminating class : WGK 2 water endangering  
(Germany)

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

### 16. Other information

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

Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 14 (15)

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R10	Flammable.
R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
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.
R51/53	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.
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.
H304	May be fatal if swallowed and enters airways.
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.

### Further information

In December 2003, the National Institute for Occupational Safety and Health ("NIOSH") published an Alert on preventing lung disease in workers who use or make flavorings [NIOSH Publication Number 2004-110].

In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in the Flavor Manufacturing Workplace".

Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The recommendations in these reports are generally applicable to the use of any chemical in the workplace and you are strongly urged to review both of these reports.

The report published by FEMA also contains a list of "high priority" chemicals. If any of these chemicals are present in this product at a concentration  $\geq 1.0\%$  due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

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Version : 1.0  
Revision Date : 10.06.2011



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product 5359828 Sheer Peony ext 3AN

Print Date 27.06.2011

Page 15 (15)

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According to Regulation (EC) No. 1907/2006 the information in this safety data sheet is based on the properties of the material known to IFF at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment International Flavors & Fragrances holds no responsibility. This document is not intended for quality assurance purposes.

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Version : 1.0  
Revision Date : 10.06.2011