

Product TONQUITONE PCMF DEPR 1206

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

1.1 Product identifier

Trade name : TONQUITONE PCMF DEPR 1206

Cust. Material : TONQUITPCMFDEPR1206

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 sensitization, Category 1 H317: May cause an allergic skin reaction.

Chronic aquatic toxicity, Category 2 H411: Toxic to aquatic life with long lasting effects.

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

Sensitising R43: May cause sensitization by skin contact.

Dangerous for the environment R51/53: 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





Signal word : Warning

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Hazard statements : H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P273 Avoid release to the environment.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and

water.

Hazardous components which must be listed on the label:

• 106-02-5 pentadecan-15-olide

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

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
1,4-dioxacycloheptadecane- 5,17-dione	105-95-3 203-347-8	N; R51/53	Aquatic Chronic2; H411	25 - 50
pentadecan-15-olide	106-02-5 203-354-6	R43	Skin Sens.1; H317	1 - 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 N; R50-R53	Aquatic Acute1; H400 Aquatic Chronic1; H410	2,5 - 10
benzyl benzoate	120-51-4 204-402-9	Xn; R22 N; R51/53	Acute Tox.4; H302 Aquatic Chronic2; H411	0 - 2,5
p-cresol	106-44-5	T; R24/25	Acute Tox.3; H311	0 - 1

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	604-004-00-9	C; R34	Acute Tox.3; H301 Skin Corr.1B; H314	
7-hydroxycitronellal	107-75-5 203-518-7	R43 Xi; R36	Eye Irrit.2; H319 Skin Sens.1; H317	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.

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5.3 Advice for firefighters

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

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Requirements for storage areas

and containers

: Store in a cool, dry, ventilated area away from heat sources. Keep

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

Contains no substances with occupational exposure limit values.

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 to reduce airborne concentrations below an established occupational exposure limit.

Hand protection : Avoid skin contact. Use chemically resistant gloves.

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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

Colour : pale yellow

Odour : conforms to standard
Odour Threshold : not determined

Flash point : 104 °C

Lower explosion limit : not determined Upper explosion limit : not determined Flammability (solid, gas) : not determined Oxidizing properties : not determined Autoignition temperature : not determined рН : not determined : not determined Melting point Boiling point : not determined Vapour pressure : 0,02 hPa Calculated

Density : not determined Water solubility : not determined Partition coefficient: n- : not determined

octanol/water

Solubility in other solvents : not determined Viscosity, dynamic : not determined Viscosity, kinematic : not determined Relative vapour density : not determined Evaporation rate : not determined

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9.2 Other information

Refractive index : not determined

Relative density : 1,0140

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: 29.810,81 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 72.846,08 mg/kg

Method: Calculation method

Skin corrosion/irritation

pentadecan-15-olide : Species: rabbit

Result: No skin irritation Exposure time: 24 h

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Serious eye damage/eye irritation

No lead substance

Respiratory or skin sensitization

pentadecan-15-olide maximisation study

Species: human

Result: Did not cause sensitization on laboratory animals.

Test substance: 10% in petrolatum

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

A mixture of: (E)-: LC50: 2 mg/l oxacyclohexadec-12-en-2-one Exposure time: 96 h and (E)-oxacyclohexadec-13-

en-2-one and a) (Z)-

Method: OECD Test Guideline 203

oxacyclohexadec-(12)-en-2-one

and b) (Z

Toxicity to daphnia and other aquatic invertebrates. A mixture of: (E)-: EC50: 0,48 mg/l oxacyclohexadec-12-en-2-one Exposure time: 48 h

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and (E)-oxacyclohexadec-13-

en-2-one and a) (Z)-

oxacyclohexadec-(12)-en-2-one

and b) (Z

Toxicity to algae

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

: ErC50: 5 mg/l

Method: OECD Test Guideline 201

Method: OECD Test Guideline 202

EbC50: 2,4 mg/l Exposure time: 72 h

Exposure time: 72 h

Method: OECD Test Guideline 201

12.2 Persistence and degradability

Biodegradability

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

: Result: Readily biodegradable.

95 %

Method: Directive 67/548/EEC Annex V, C.4.F.

12.3 Bioaccumulative potential

12.4 Mobility in soil

Mobility : no data available

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

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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.

(OXACYCLOHEXADECEN-2-ONE)

Labels : 9
Packing group : III
Environmentally hazardous : yes

IATA

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(OXACYCLOHEXADECEN-2-ONE)

Labels : 9
Packing group : III
Environmentally hazardous : yes

IMDG

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(OXACYCLOHEXADECEN-2-ONE)

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) : R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

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S-phrase(s) : S24 Avoid contact with skin.

Wear suitable gloves.

Avoid release to the environment. Refer to special instructions/

Safety data sheets.

Water contaminating class

(Germany)

: WGK 2 water endangering

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

R22 Harmful if swallowed.

R24/25 Toxic in contact with skin and if swallowed.

R34 Causes burns.
R36 Irritating to eyes.

R43 May cause sensitization by skin contact.
R50 Very 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.

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

H301	Toxic if swallowed.		
H302	Harmful if swallowed.		
H311	Toxic in contact with skin.		

H314 Causes severe skin burns and eye damage.
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.

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.

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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 >= 1.0% due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

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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