

IONONE BETA 5992503

Version 7.0

Revision Date 30 MAR 2016

Print Date 31 MAR 2016

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

1.1 Product identifier

Sales No. : 128201
IONONE BETA 5992503

Substance name : 4-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE

Identifier

CAS : 79-77-6
CAS : 14901-07-6
CAS : 8013-90-9
EINECS : 201-224-3
EINECS : 238-969-9
EINECS : 232-396-8
Formula : C13-H20-O

REACH Registration Number : 01-2119449921-34-0000

If this is a flavouring for foodstuffs, then the exemption from REACH registration applies.

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

Intended Use Fragrances : Perfumery or flavor ingredient

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

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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

2.2 Label elements

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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Response:
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

Hazards not Otherwise Classified. : None

SECTION 3. Composition/information on ingredients

3.1 Substances

Chemical Name	CAS-No. EINECS-No. / ELINCS No.	Concentration [%]
4-(2,6,6-Trimethylcyclohex-1-en-1-yl)but-3-en-2-one (ionone beta)	14901-07-6 238-969-9	>= 90 - <= 100

Hydrocarbons : 0 %

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical

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- advice.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
If on skin, rinse well with water.
- In case of eye contact : Remove contact lenses.
Protect unharmed eye.
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

- Symptoms : no data available
Risks : no data available

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : no data available

SECTION 5. Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry chemical
Alcohol-resistant foam
Carbon dioxide (CO₂)
Water spray

- Unsuitable extinguishing media : no data available

5.2 Special hazards arising from the substance or mixture

- 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 firefighting 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.

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SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : no data available

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
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 : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Not applicable

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

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 : 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 materials to be especially mentioned.

German storage class : no data available

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : no data available

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SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

Environmental exposure controls

General advice : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Form	: liquid
Colour	: Pale yellow to yellow
Taste	: not determined
Odour	: Floral, like fruit, Earthy, Orris-like
Odour Threshold	: 0,2578 ng/l
Flash point	: 129 °C Method: closed cup
Lower explosion limit	: 1 %(V)
Upper explosion limit	: 5,6 %(V)
Flammability (solid, gas)	: no data available
Oxidizing properties	: no data available
Auto-ignition temperature	: 270 °C
Decomposition temperature	: no data available
Molecular weight	: 192,30 g/mol
pH	: no data available
Melting point	: -32 °C
Boiling point	: 267 °C at 1 013 hPa
Vapour pressure	: 0,0056 hPa at 20 °C

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	0,266 hPa at 65 °C
Density	: 943,29 kg/m ³ at 20 °C
Bulk density	: Not applicable
Water solubility	: 128 mg/l at 25 °C
Solubility/qualitative	: completely soluble
Partition coefficient: n-octanol/water	: log Pow: 4,1 Method: OECD Test Guideline 117
Viscosity, kinematic	: 11,8 mm ² /s at 20 °C Method: OECD Test Guideline 114
Relative vapour density	: no data available
Surface tension	: 27,1 mN/m at 20 °C
Evaporation rate	: no data available
Explosive properties	: no data available

SECTION 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 : Stable under recommended storage conditions., No hazards to be specially mentioned.

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

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : LD50 Rat
Dose: > 4 000 mg/kg

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Acute inhalation toxicity : This information is not available.

Acute dermal toxicity : Rat
Dose: > 2 000 mg/kg
Method: OECD Test Guideline 402Expert judgement

Acute toxicity (other routes of administration) : No data is available on the product itself.

Skin corrosion/irritation

Skin irritation : Species: Rabbit
No skin irritation
Method: OECD Test Guideline 404
Exposure time: 4 h

Serious eye damage/eye irritation

Eye irritation : Species: Rabbit
No eye irritation
Method: OECD Test Guideline 405
Exposure time: 72 h

Respiratory or skin sensitisation

Sensitisation : Maximisation Test (GPMT) Guinea pig
Result: Not sensitizing

Germ cell mutagenicity

Genotoxicity in vitro : Ames test
negative

Genotoxicity in vivo : Micronucleus test Species: Mouse
Method: Mutagenicity (micronucleus test)
negative

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 : Species: Rat, male
NOAEL: 71,8 mg/kg
Method: OECD Test Guideline 408
90-day oral toxicity

**Target Organ Systemic Toxicant - Repeated exposure
Aspiration hazard**

Aspiration toxicity : No data is available on the product itself.

Phototoxicity

Phototoxicity : Phototoxicity Guinea pig
Result:negative

Further information : no data available

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish : LC50: 5,09 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50: 4,03 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Toxicity to algae : EC50: 22,9 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: DIN 38412

Toxicity to bacteria : no data available

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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 the environment : no data available

12.2 Persistence and degradability

Biodegradability : Result: Readily biodegradable
74 %
Method: OECD Test Guideline 301 B

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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 : Toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

Dispose of in accordance with local regulations.

SECTION 14. Transport information

ADR/RID/ADN

UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Beta Ionone)
Transport hazard class(es) : 9
Packing group : III
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (E)
Environmentally hazardous : yes

IATA/CAO

UN number : 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Beta Ionone)
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.
(Beta Ionone)
Class : 9
Packing group : III
Labels : 9
EmS Fire : F-A
EmS Spillage : S-F

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Marine pollutant : yes
Beta Ionone
IMDG Code Segregation : None
Group

SECTION 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) Number: 4
Classification according to appendix 3
ZDE_WGK Update: 2005-08-31

15.2 Chemical Safety Assessment

no data available

SECTION 16. Other information

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

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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