

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NATURAL 1-OCTEN-3-OL

Revision date: 25.03.2025

Product code: 280530

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

1.1. Product identifier

NATURAL 1-OCTEN-3-OL

Substance name: NATURAL 1-OCTEN-3-OL
CAS No: 3391-86-4
EC No: 222-226-0

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

Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

1.3. Details of the supplier of the safety data sheet

Company name: Axxence Aromatic GmbH
Street: Tackenweide 28
Place: D-46446 Emmerich am Rhein
Telephone: + 49 2822 68561 0
E-mail: info@axxence.com
Contact person: Safety Team
E-mail: safety-documentation@axxence.com
Internet: www.axxence.de
Responsible Department: Safety Management

Telefax: + 49 2822 68561 39

Telephone: + 49 2822 68561 0

1.4. Emergency telephone number:

+49 2822 68561 99

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute Tox. 3; H301
Acute Tox. 4; H332
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

H301 Toxic if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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| | |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P264 | Wash hands thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P330 | Rinse mouth. |
| P302+P352 | IF ON SKIN: Wash with plenty of Water and soap. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| 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. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to organic waste. |

2.3. Other hazards

This substance is not listed as Substance of Very High Concern (SVHC) in the Candidate List according to REACH, Article 59. This substance is not identified as SVHC (substance of very high concern) and is not subject to authorisation according to Annex XIV of REACH.

SECTION 3: Composition/information on ingredients

3.1. Substances

| | |
|-------------------|----------------------------------|
| Sum formula: | C ₈ H ₁₆ O |
| Molecular weight: | 128,21 g/mol |

Relevant ingredients

| CAS No | Chemical name | Quantity |
|------------|-------------------------------------------------------------------------------------------------|----------|
| | EC No | Index No |
| | Classification (Regulation (EC) No 1272/2008) | REACH No |
| 3391-86-4 | NATURAL 1-OCTEN-3-OL | >85% |
| | 222-226-0 | |
| | Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H301 H332 H315 H319 H317 | |
| 111-87-5 | NATURAL 1-OCTANOL | <15 % |
| | 203-917-6 | |
| | Eye Irrit. 2, Aquatic Chronic 3; H319 H412 | |
| 22104-78-5 | NATURAL 2-OCTEN-1-OL | <15 % |
| | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-----------|-----------|--------------------------------------------------------------------------------------------------------------------------------------|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 3391-86-4 | 222-226-0 | NATURAL 1-OCTEN-3-OL | >85% |
| | | inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = 3,7 mg/l (dusts or mists); dermal: LD50 = 3300 mg/kg; oral: LD50 = 175 mg/kg | |
| 111-87-5 | 203-917-6 | NATURAL 1-OCTANOL | <15 % |
| | | dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg | |

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SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink 1 glass of water. Induce vomiting when the affected person is not unconscious. Call a physician immediately.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

| CAS No | Name of agent | | | |
|--------------------------|-------------------|----------------|----------|-------------------|
| DNEL type | | Exposure route | Effect | Value |
| 111-87-5 | NATURAL 1-OCTANOL | | | |
| Worker DNEL, long-term | | inhalation | systemic | 176 mg/m³ |
| Worker DNEL, long-term | | inhalation | local | 106 mg/m³ |
| Worker DNEL, long-term | | dermal | systemic | 50 mg/kg bw/day |
| Worker DNEL, long-term | | dermal | local | 0,190 mg/cm² |
| Consumer DNEL, long-term | | inhalation | systemic | 43,5 mg/m³ |
| Consumer DNEL, long-term | | dermal | systemic | 25 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | local | 0,067 mg/cm² |
| Consumer DNEL, long-term | | oral | systemic | 12,5 mg/kg bw/day |

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PNEC values

| CAS No | Name of agent | |
|---------------------------|-------------------|------------|
| Environmental compartment | | Value |
| 111-87-5 | NATURAL 1-OCTANOL | |
| Freshwater | | 0,2 mg/l |
| Marine water | | 0,02 mg/l |
| Freshwater sediment | | 2,1 mg/kg |
| Marine sediment | | 0,21 mg/kg |
| Soil | | 0,26 mg/kg |

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable gloves type: NBR (Nitrile rubber) + Natural fibres (e.g. cotton)

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------------------------------------------|----------------|
| Physical state: | Liquid |
| Colour: | |
| Melting point/freezing point: | -49 °C |
| Boiling point or initial boiling point and boiling range: | 175 °C |
| Flammability: | not determined |
| Lower explosion limits: | 0,9 vol. % |
| Upper explosion limits: | 8 vol. % |
| Flash point: | >61 °C |
| Auto-ignition temperature: | 245 °C |
| Decomposition temperature: | not determined |
| pH-Value: | not determined |
| Viscosity / kinematic: | not determined |
| Water solubility: | 1,932 g/l |

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Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

not determined

Vapour pressure:

0,3 hPa

(at 20 °C)

Vapour pressure:

3 hPa

(at 50 °C)

Density (at 25 °C):

0,84 g/cm³

Relative vapour density:

4,43

Particle characteristics:

not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Toxic if swallowed.

Harmful if inhaled.

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| CAS No | Chemical name | | | | |
|-----------|-------------------------------|---------------------|---------|--------------------|-----------------------|
| | Exposure route | Dose | Species | Source | Method |
| 3391-86-4 | NATURAL 1-OCTEN-3-OL | | | | |
| | oral | LD50 mg/kg 175 | Rat | REACH Dossier | OECD 425 |
| | dermal | LD50 mg/kg 3300 | Rabbit | GESTIS | |
| | inhalation vapour | ATE 11 mg/l | | | |
| | inhalation (4 h) dust/mist | LC50 3,7 mg/l | Rat | BASF (Ref. 48471) | |
| 111-87-5 | NATURAL 1-OCTANOL | | | | |
| | oral | LD50 mg/kg >5000 | Rat | REACH Registration | OECD 401 |
| | dermal | LD50 mg/kg >5000 | Rat | REACH Registration | EPA OPPTS 870.1200 |

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (NATURAL 1-OCTEN-3-OL)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

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| CAS No | Chemical name | | | | | |
|-----------|--------------------------|---------------|-----------|---------|-----------------------------------------|-----------------------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 3391-86-4 | NATURAL 1-OCTEN-3-OL | | | | | |
| | Acute algae toxicity | ErC50 mg/l | 7,05 | | Pseudokirchneriella subcapitata | REACH Dossier OECD 201 |
| | Acute crustacea toxicity | EC50 mg/l | 8,02 | 48 h | Daphnia magna (Big water flea) | REACH Dossier OECD 202 |
| 111-87-5 | NATURAL 1-OCTANOL | | | | | |
| | Acute fish toxicity | LC50 mg/l | 13,3 | 96 h | Pimephales promelas (fathead minnow) | REACH Registration OECD 203 |
| | Acute algae toxicity | ErC50 | 6,5 mg/l | | Desmodesmus subspicatus | REACH Registration OECD 201 |
| | Acute crustacea toxicity | EC50 | 20 mg/l | 48 h | Daphnia magna (Big water flea) | REACH Registration OECD 202 |
| | Fish toxicity | NOEC | 1,5 mg/l | 7 d | Pimephales promelas (fathead minnow) | REACH Registration |
| | Crustacea toxicity | NOEC | 1 mg/l | 21 d | Daphnia magna (Big water flea) | REACH Registration OECD 211 |
| | Acute bacteria toxicity | EC50 () | 350 mg/l | 3 h | Activated sludge | REACH Registration OECD 209 |

12.2. Persistence and degradability

The product has not been tested.

| CAS No | Chemical name | | | |
|-----------|-----------------------------------------------------|-------|----|--------------------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 3391-86-4 | NATURAL 1-OCTEN-3-OL | | | |
| | OECD 301F | 34% | 5 | REACH Dossier |
| | Readily biodegradable (according to OECD criteria). | | | |
| | OECD 301F | 69% | 15 | REACH Dossier |
| | Readily biodegradable (according to OECD criteria). | | | |
| | OECD 301F | 80% | 28 | REACH Dossier |
| | Readily biodegradable (according to OECD criteria). | | | |
| 111-87-5 | NATURAL 1-OCTANOL | | | |
| | OECD 301B | 92% | 28 | REACH Registration |
| | Readily biodegradable (according to OECD criteria). | | | |

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|----------------------|---------|
| 3391-86-4 | NATURAL 1-OCTEN-3-OL | 2,5 |
| 111-87-5 | NATURAL 1-OCTANOL | 3,5 |
| 22104-78-5 | NATURAL 2-OCTEN-1-OL | 2.674 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|----------|-------------------|-----|---------|--------|
| 111-87-5 | NATURAL 1-OCTANOL | 9,1 | | |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

The product has not been tested.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 2810

14.2. UN proper shipping name:

TOXIC LIQUID, ORGANIC, N.O.S.

14.3. Transport hazard class(es):

6.1

14.4. Packing group:

III

Hazard label:

6.1



Classification code:

T1

Special Provisions:

274 614

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

2

Hazard No:

60

Tunnel restriction code:

E

Inland waterways transport (ADN)

14.1. UN number or ID number:

UN 2810

14.2. UN proper shipping name:

TOXIC LIQUID, ORGANIC, N.O.S.

14.3. Transport hazard class(es):

6.1

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14.4. Packing group:

Hazard label:

III

6.1



Classification code:

T1

Special Provisions:

274 614 802

Limited quantity:

5 L

Excepted quantity:

E1

Marine transport (IMDG)

14.1. UN number or ID number:

UN 2810

14.2. UN proper shipping name:

TOXIC LIQUID, ORGANIC, N.O.S.

14.3. Transport hazard class(es):

6.1

14.4. Packing group:

III

Hazard label:

6.1



Special Provisions:

223 274

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-A

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

UN 2810

14.2. UN proper shipping name:

TOXIC LIQUID, ORGANIC, N.O.S.

14.3. Transport hazard class(es):

6.1

14.4. Packing group:

III

Hazard label:

6.1



Special Provisions:

A3 A4 A137

Limited quantity Passenger:

2 L

Passenger LQ:

Y642

Excepted quantity:

E1

IATA-packing instructions - Passenger:

655

IATA-max. quantity - Passenger:

60 L

IATA-packing instructions - Cargo:

663

IATA-max. quantity - Cargo:

220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

14.6. Special precautions for user

Warning: Acute Toxicity. No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

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Restrictions on use (REACH, annex XVII):

Entry 3

Directive 2010/75/EU on industrial emissions: 100 % (840 g/l)

Directive 2004/42/EC on VOC in paints and varnishes: 100 % (840 g/l)

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 14.

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Abbreviations and acronyms

Acute Tox: Acute toxicity
Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
Aquatic Chronic: Chronic aquatic hazard
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
EC/EEC: European Community/European Economic Community
EU: European Union
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
M-factor: Multiplying factor
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
DGR: Dangerous Goods Regulations
ICAO: International Civil Aviation Organization
TI: Technical Instructions
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: volatile organic compound
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Relevant H and EUH statements (number and full text)

| | |
|------|----------------------------------------------------|
| H301 | Toxic if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H412 | Harmful to aquatic life with long lasting effects. |

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Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.