

Safety Data Sheet

INTENSITY MARINE g 9



Safety Data Sheet dated 4/7/2019, version 7

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

1.1. Product identifier

Mixture identification:

Trade name: INTENSITY MARINE g 9

Trade code: 1858

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

Recommended use:

Car air freshener

1.3. Details of the supplier of the safety data sheet

Supplier:

Arexons S.p.A.

via Antica di Cassano, 23, 20063

Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Competent person responsible for the safety data sheet:

arexons@arexons.it

1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 - 22:00)

In South Africa: Poison Information Helpline 0861 555 777

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

⚠ Warning, Flam. Sol. 2, Flammable solid.

⚠ Warning, Skin Irrit. 2, Causes skin irritation.

⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.

⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H228 Flammable solid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

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P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/clothing and eye/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire, use a foam fire extinguisher to extinguish.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

PACK2 The packing must have tactile indications of danger for blind people.

Contains

acetyl diisoamylene
3,7-dimethyl-3-octanol
[3R-(3a,3aβ,6β,7β,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:
May produce an allergic reaction.
Cineole: May produce an allergic reaction.
CIS-P-MENTHAN-7-OL: May produce an allergic reaction.
STANNANE, DIBUTYLBIS[81-OXODODECYL]: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

PBT Substances:

>= 0.25% - < 0.5% Octamethylcyclotetrasiloxane - Index number: 014-018-00-1, CAS: 556-67-2, EC: 209-136-7

vPvB Substances:

>= 0.25% - < 0.5% Octamethylcyclotetrasiloxane - Index number: 014-018-00-1, CAS: 556-67-2, EC: 209-136-7

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 15% - < 20% 2,6-dimethyloct-7-en-2-ol

REACH No.: 01-2119457274-37, CAS: 18479-58-8, EC: 242-362-4

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

>= 2% - < 3% 3,7-dimethyl-3-octanol

REACH No.: 01-2119454788-21, CAS: 78-69-3, EC: 201-133-9

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 3.3/2 Eye Irrit. 2 H319

>= 2% - < 3% acetyl diisoamylene

CAS: 81786-73-4, EC: 279-822-9

⚠ 3.4.2/1B Skin Sens. 1B H317

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⚠ 4.1/C2 Aquatic Chronic 2 H411 M=10.

>= 1% - < 2% TETRAETHOXY SILANE

CAS: 78-10-4

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.8/3 STOT SE 3 H335

>= 0.5% - < 1%

[3R-(3a,3aβ,6β,7β,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

REACH No.: 01-2120228335-61, CAS: 19870-74-7

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.5% - < 1% Cineole

REACH No.: 01-2119967772-24, CAS: 470-82-6, EC: 207-431-5

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.25% - < 0.5% CIS-P-MENTHAN-7-OL

REACH No.: 01-2119983532-32, CAS: 13828-37-0, EC: 237-539-8

⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.25% - < 0.5% Octamethylcyclotetrasiloxane

Index number: 014-018-00-1, CAS: 556-67-2, EC: 209-136-7

⚠ 3.7/2 Repr. 2 H361

4.1/C4 Aquatic Chronic 4 H413

>= 0.1% - < 0.25% STANNANE, DIBUTYLBIS[81-OXODODECYL)

CAS: 77-58-7

⚠ 3.2/1C Skin Corr. 1C H314

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 3.5/2 Muta. 2 H341

⚠ 3.7/1B Repr. 1B H360

⚠ 3.8/1 STOT SE 1 H370

⚠ 3.9/1 STOT RE 1 H372

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.005% - < 0.01% d-limonene

Index number: 601-029-00-7, CAS: 138-86-3, EC: 205-341-0

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

SVHC Substances:

>= 0.25% - < 0.5% Octamethylcyclotetrasiloxane

Index number: 014-018-00-1, CAS: 556-67-2, EC: 209-136-7

Substance PBT and vPvB and SVHC

SECTION 4: First aid measures

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4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

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

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media:

To carbon dioxide.

Foam

Water spray.

Not Recommended Extinguishing Media:

Do not use direct water jets.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

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

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Store at below 50 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TETRAETHOXY SILANE - CAS: 78-10-4

VLEP - TWA(8h): 86 mg/m³

EU - TWA(8h): 44 mg/m³, 5 ppm

ACGIH - TWA(8h): 10 ppm - Notes: URT and eye irr, kidney dam

STANNANE, DIBUTYLBIS[81-OXODODECYL) - CAS: 77-58-7

VLEP - TWA(8h): 1 mg/m³ - Notes: China

d-limonene - CAS: 138-86-3

TLV TWA - 1320 mg/m³

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Safety goggles.

Compliant with EN 166

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Nitrile or Viton gloves.

Compliant with EN 374.

Respiratory protection:

In case of insufficient ventilation, use adequate respiratory protection equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Properties	Value	Method:	Notes:
Appearance and colour:	Solid Blue	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	76°C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	474 mm ² /s	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--

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Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

NA=not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Excessive heat.

Flames and other sources of ignition.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

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a) acute toxicity

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

The product is classified: Skin Sens. 1 H317

e) germ cell mutagenicity

Based on available data, the classification criteria are not met

f) carcinogenicity

Based on available data, the classification criteria are not met

g) reproductive toxicity

Based on available data, the classification criteria are not met

h) STOT-single exposure

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Based on available data, the classification criteria are not met

j) aspiration hazard

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

2,6-dimethyloct-7-en-2-ol - CAS: 18479-58-8

a) acute toxicity:

Test: LD50 - Route: Oral = 3600 mg/kg

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Test: LD50 - Route: Skin > 5000 mg/kg
Test: LD50 - Route: Inhalation > 100 mg/l
3,7-dimethyl-3-octanol - CAS: 78-69-3
a) acute toxicity:
Test: LD50 - Route: Skin > 5000 mg/kg
Test: LD50 - Route: Oral > 5000 mg/kg
Test: LC50 - Route: Inhalation > 100 mg/l
acetyl diisoamylene - CAS: 81786-73-4
a) acute toxicity:
Test: LD50 - Route: Skin > 5000 mg/kg
Test: LD50 - Route: Oral > 5000 mg/kg
Test: LC50 - Route: Inhalation > 100 mg/l
TETRAETHOXY SILANE - CAS: 78-10-4
a) acute toxicity:
Test: LD50 - Route: Skin > 5000 mg/kg
Test: LD50 - Route: Oral > 5000 mg/kg
Test: LC50 - Route: Inhalation = 11 mg/l
[3R-(3a,3aβ,6β,7β,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene -
CAS: 19870-74-7
a) acute toxicity:
Test: LD50 - Route: Skin > 5000 mg/kg
Test: LD50 - Route: Oral > 5000 mg/kg
Test: LC50 - Route: Inhalation > 100 mg/l
Cineole - CAS: 470-82-6
a) acute toxicity:
Test: LD50 - Route: Skin > 5000 mg/kg
Test: LD50 - Route: Oral = 2480 mg/kg
Test: LC50 - Route: Inhalation > 100 mg/l
CIS-P-MENTHAN-7-OL - CAS: 13828-37-0
a) acute toxicity:
Test: LD50 - Route: Skin > 5000 mg/kg
Test: LD50 - Route: Oral > 5000 mg/kg
Test: LC50 - Route: Inhalation > 100 mg/l
Octamethylcyclotetrasiloxane - CAS: 556-67-2
a) acute toxicity:
Test: LD50 - Route: Skin > 5000 mg/kg
Test: LD50 - Route: Oral > 5000 mg/kg
Test: LC50 - Route: Inhalation > 100 mg/l
STANNANE, DIBUTYLBIS[81-OXODODECYL) - CAS: 77-58-7
a) acute toxicity:
Test: LD50 - Route: Skin > 5000 mg/kg
Test: LD50 - Route: Oral > 5000 mg/kg
Test: LC50 - Route: Inhalation > 100 mg/l

SECTION 12: Ecological information

- 12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
N.A.
- 12.2. Persistence and degradability
None
N.A.
- 12.3. Bioaccumulative potential
N.A.
- 12.4. Mobility in soil
N.A.
- 12.5. Results of PBT and vPvB assessment

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PBT Substances:

>= 0.25% - < 0.5% Octamethylcyclotetrasiloxane - CAS: 556-67-2

vPvB Substances:

>= 0.25% - < 0.5% Octamethylcyclotetrasiloxane - CAS: 556-67-2

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

Reuse if possible. Act in accordance with the local and national laws in force.

SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 1325

IATA-UN Number: 1325

IMDG-UN Number: 1325

14.2. UN proper shipping name

ADR-Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.

ADR-Shipping Name: SOLID ORGANIC FLAMMABLE N.O.S.

IATA-Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.

IMDG-Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.

14.3. Transport hazard class(es)

ADR-Class: 4.1

ADR - Hazard identification number: 40

IATA-Class: 4.1

IATA-Label: 4.1

IMDG-Class: 4.1

14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

ADR-Subsidiary hazards: -

ADR-S.P.: 274

ADR-Transport category (Tunnel restriction code): 2 (E)

IATA-Passenger Aircraft: 445

IATA-Subsidiary hazards: -

IATA-Cargo Aircraft: 448

IATA-S.P.: A3 A803

IATA-ERG: 3L

IMDG-EmS: F-A,

S-G

IMDG-Subsidiary hazards: -

IMDG-Stowage and handling: Category B

IMDG-Segregation: -

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- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No
Limited Quantity: 1 kg
Exempted Quantity: E2

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 40

Restrictions related to the substances contained:

Restriction 70

Volatile Organic compounds - VOCs = 13.72 %
Volatile Organic compounds - VOCs = 137.20 g/Kg
Volatile Organic compounds - VOCs = 124.30 g/l

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

Octamethylcyclotetrasiloxane

PBT, vPvB

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

None

SECTION 16: Other information

Text of phrases referred to under heading 3:

H361 Suspected of damaging fertility or the unborn child.

H413 May cause long lasting harmful effects to aquatic life.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

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H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H314 Causes severe skin burns and eye damage.
H341 Suspected of causing genetic defects.
H360 May damage fertility or the unborn child.
H370 Causes damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Flam. Sol. 2	2.7/2	Flammable solid, Category 2
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Muta. 2	3.5/2	Germ cell mutagenicity, Category 2
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 1	3.8/1	Specific target organ toxicity - single exposure, Category 1
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3
Aquatic Chronic 4	4.1/C4	Chronic (long term) aquatic hazard, category 4

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Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 7: Handling and storage
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Sol. 2, H228	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.

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KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NA:	Not applicable
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.