

Safety Data Sheet

Deo Minimal Vanilla



Safety Data Sheet dated 5/7/2021, version 5

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

1.1. Product identifier

Mixture identification:

Trade name: Deo Minimal Vanilla

Trade code: 1758

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

Recommended use:

Car air freshener

Uses advised against:

Strictly adhere to the recommended uses.

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

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

In Malta: emergency number 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

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

🌿 Aquatic Chronic 2, Toxic 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:

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

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P273 Avoid release to the environment.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH208 Contains Linalool. May produce an allergic reaction.
EUH208 Contains 3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers). May produce an allergic reaction.
EUH208 Contains 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one. May produce an allergic reaction.
EUH208 Contains PARA-TERT-BUTYLCYCLOHEXYL ACETATE. May produce an allergic reaction.
EUH208 Contains 2-methoxy-p-cresol. May produce an allergic reaction.
EUH208 Contains Butanedione. May produce an allergic reaction.
EUH208 Contains ALPHA-ISOMETHYL IONONE. May produce an allergic reaction.

Contains

Coumarin

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

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

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:

$\geq 10\%$ - $< 12.5\%$ Coumarin

REACH No.: 01-2119943756-26, CAS: 91-64-5, EC: 202-086-7

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.4.2/1B Skin Sens. 1B H317

$\geq 5\%$ - $< 7\%$ Linalool

REACH No.: 01-2119474016-42, CAS: 78-70-6, EC: 201-134-4

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 3.3/2 Eye Irrit. 2 H319

$\geq 3\%$ - $< 5\%$ 3-(5,5,6-TRYMETHYLBICYCLO(2,2,1)HEPT-2-YL)CYCLOHEXAN-1-OL

REACH No.: 01-2119979583-21, CAS: 3407-42-9, EC: 222-294-1

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/2 Eye Irrit. 2 H319

$\geq 3\%$ - $< 5\%$ 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one

CAS: 1506-02-1, EC: 216-133-4

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 4.1/A1 Aquatic Acute 1 H400

⚠ 4.1/C1 Aquatic Chronic 1 H410

$\geq 3\%$ - $< 5\%$ Ethyl maltol

CAS: 4940-11-8, EC: 225-582-5

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⚠ 3.1/4/Oral Acute Tox. 4 H302

>= 0.5% - < 1% 3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers)

REACH No.: 01-2119980043-42, CAS: 81786-75-6, EC: 279-825-5

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 0.5% - < 1% PARA-TERT-BUTYLCYCLOHEXYL ACETATE

REACH No.: 01-2119976286-24, CAS: 32210-23-4, EC: 250-954-9

⚠ 3.4.2/1B Skin Sens. 1B H317

>= 0.5% - < 1% 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

REACH No.: 01-2119489989-04, CAS: 54464-57-2, EC: 259-174-3

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 4.1/C2 Aquatic Chronic 2 H411

>= 0.5% - < 1% Butanedione

CAS: 431-03-8, EC: 207-069-8

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 3.9/2 STOT RE 2 H373

⚠ 3.1/3/Inhal Acute Tox. 3 H331

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.3/1 Eye Dam. 1 H318

>= 0.5% - < 1% 2-methoxy-p-cresol

CAS: 93-51-6, EC: 202-252-9

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.4.2/1B Skin Sens. 1B H317

⚠ 3.2/2 Skin Irrit. 2 H315

>= 0.1% - < 0.25% ALPHA-ISOMETHYL IONONE

REACH No.: 01-2119471851-35, CAS: 127-51-5, EC: 215-635-0

⚠ 3.4.2/1 Skin Sens. 1 H317

⚠ 4.1/C2 Aquatic Chronic 2 H411

SECTION 4: First aid measures

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.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

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

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- 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.
To water.
Not Recommended Extinguishing Media:
- 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 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

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
Do not store this material near food and drinks.
Keep away from food, drink and feed.
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
- 7.3. Specific end use(s)
None in particular



SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Butanedione - CAS: 431-03-8

EU - TWA(8h): 0,07 mg/m³, 0,02 ppm - STEL: 0,36 mg/m³, 0,1 ppm

ACGIH - TWA(8h): 0.01 ppm - STEL: 0.02 ppm - Notes: A4 - Lung dam (Bronchiolitis obliterans-like illness)

DNEL Exposure Limit Values

Linalool - CAS: 78-70-6

Worker Industry: 2.8 mg/m³ - Consumer: 0.7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 2.5 mg/m³ - Consumer: 1.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: ECHA

Consumer: 0.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Eye protection:

Face protection shield.

Compliant with EN 166

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

PVC (polyvinyl chloride).

Neoprene.

Nitrile.

Compliant with EN 374.

Respiratory protection:

Not needed for normal use.

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

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	yellow-orange	--	--
Odour:	N.A.	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--

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Flash point:	>61°C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1,114	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

- 9.2. Other information
No other relevant information

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
Stable under normal conditions.
- 10.5. Incompatible materials
None in particular.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicological information of the product:
Deo Minimal Vanilla
 - a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
 - b) skin corrosion/irritation

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- Not classified
Based on available data, the classification criteria are not met
- c) serious eye damage/irritation
Not classified
Based on available data, the classification criteria are not met
- d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1B H317
- e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
- f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
- g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
- h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
- j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met
- Toxicological information of the main substances found in the product:
- Coumarin - CAS: 91-64-5
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 520
- Linalool - CAS: 78-70-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 2790 mg/kg
Test: LD50 - Route: Oral - Species: Mouse 2200 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 5610 mg/kg
- 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one - CAS: 1506-02-1
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 964 mg/kg
Test: LD50 - Route: Skin - Species: Rat 7940 mg/kg
- Ethyl maltol - CAS: 4940-11-8
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 1150 mg/kg - Duration: 24h
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
- 3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers) - CAS: 81786-75-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 6100 mg/kg
Test: LD50 - Route: Oral - Species: Rat = 2400 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
- PARA-TERT-BUTYLCYCLOHEXYL ACETATE - CAS: 32210-23-4
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 3370 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 4680 mg/kg
- 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one - CAS: 54464-57-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg
- ALPHA-ISOMETHYL IONONE - CAS: 127-51-5

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- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg

- 11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Coumarin - CAS: 91-64-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2.94 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 24.3 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 1.45 mg/l - Duration h: 72

Linalool - CAS: 78-70-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 27.8 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: Daphnia 59 mg/l - Duration h: 48 - Notes: OECD TG 202

Endpoint: EC50 - Species: Algae 156.7 mg/l - Duration h: 96

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one - CAS: 1506-02-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 1.49 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 0.24 mg/l - Duration h: 504

3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers) - CAS: 81786-75-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 4.8 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 6.1 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae 21 mg/l - Duration h: 72

Endpoint: NOEC - Species: Algae 12 mg/l

PARA-TERT-BUTYLCYCLOHEXYL ACETATE - CAS: 32210-23-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 5.3 mg/l

Endpoint: EC50 - Species: Fish 22 mg/l

Endpoint: EC50 - Species: Fish 8.6 mg/l

Endpoint: EC50 - Species: Fish 6.8 mg/l

ALPHA-ISOMETHYL IONONE - CAS: 127-51-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 10.9 mg/l - Duration h: 96

12.2. Persistence and degradability

None

Linalool - CAS: 78-70-6

Biodegradability: Readily biodegradable - Test: BIOGDG08 - Duration: 28gg - %: 64.2

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

None

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. 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 or ID number

ADR-UN Number: 3082
IATA-UN Number: 3082
IMDG-UN Number: 3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl) ethan-1-one, 3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers))
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl) ethan-1-one, 3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers))
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl) ethan-1-one, 3,4,5,6,6,PENTAMETHYLHEPT-3-EN-2-ONE (and isomers))

14.3. Transport hazard class(es)

ADR-Class: 9
ADR - Hazard identification number: 90
IATA-Class: 9
IATA-Label: 9
IMDG-Class: 9

14.4. Packing group

ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III

14.5. Environmental hazards

ADR-Environmental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant
IMDG-EmS: F-A,
S-F

14.6. Special precautions for user

ADR-Subsidiary hazards: -
ADR-S.P.: 274 335 375 601
ADR-Transport category (Tunnel restriction code): 3 (-)
IATA-Passenger Aircraft: 964
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 964
IATA-S.P.: A97 A158 A197
IATA-ERG: 9L
IMDG-Subsidiary hazards: -

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IMDG-Stowage and handling: Category A
IMDG-Segregation: -
14.7. Maritime transport in bulk according to IMO instruments
No
Limited Quantity: 5 L
Exempted Quantity: E1

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) n. 2020/878
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)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 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 3
Restriction 40
Restrictions related to the substances contained:
No restriction.
- Volatile Organic compounds - VOCs = 0.90 %
Volatile Organic compounds - VOCs = 9.00 g/Kg
Volatile Organic compounds - VOCs = 10.03 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)
- Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: E2
- 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:
H302 Harmful if swallowed.

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H317 May cause an allergic skin reaction.
H315 Causes skin irritation.
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.
H225 Highly flammable liquid and vapour.
H373 May cause damage to organs through prolonged or repeated exposure.
H331 Toxic if inhaled.
H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
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
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
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

This safety data sheet has been completely updated in compliance to Regulation 2020/878. 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
Skin Sens. 1B, H317	Calculation method
Aquatic Chronic 2, H411	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

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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.
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.