

FA0539 - Desert Ship flavour

Printed on 05/05/2022 Page n. 1 / 12 Replaced revision:5 (Dated 18/03/2022)

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

FA0539 Code:

Product name **Desert Ship flavour**

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

Intended use Flavour

Identified Uses Industrial **Professional** Consumer Electronic smoke

1.3. Details of the supplier of the safety data sheet

Name **FLAVOURART SRL** Full address Via Delle Industrie 26

(NO) **District and Country** 28047 Oleggio

Italia

Tel. +39 0321 960553 +39 0321 204549 Fax

e-mail address of the competent person

responsible for the Safety Data Sheet supporto@flavourart.it

1.4. Emergency telephone number

For urgent inquiries refer to +39 0321 960553

NHS 111

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2 H319 Causes serious eye irritation. Skin irritation, category 2 H315 Causes skin irritation.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

Causes serious eye irritation. H319 H315

Causes skin irritation.

EUH208 beta-Damascenone Contains:

Geraniol

May produce an allergic reaction.



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SECTION 2. Hazards identification .../>>

Precautionary statements:

P501 Dispose of contents / container in accordance with local regulations.

P102 Keep out of reach of children.

P280 Wear protective gloves / eye protection / face protection.

P337+P313 Wear protective gloves / eye protection / face protection.

P264 Wash thoroughly after handling.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

Vanillin

CAS 121-33-5 $4,9 \le x < 5,1$ Eye Irrit. 2 H319

EC 204-465-2

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REACH Reg. 01-2119516040-60-XXXX

Ethyl Maltol

CAS 4940-11-8 2 ≤ x < 2,1 Acute Tox. 4 H302 EC 225-582-5 LD50 Oral: 780

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REACH Reg. 01-2120758795-36-XXXX

Tetramethylpyrazine

CAS 1124-11-4 1,47 ≤ x < 1,52 Acute Tox. 4 H302 EC 214-391-2 LD50 Oral: 1910

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Methylbutyric acid 2

CAS 116-53-0 1 ≤ x < 1,04 Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318

EC 204-145-2 STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg

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REACH Reg. 01-2119959862-23-XXXX

Ethyl Acetate

CAS 141-78-6 0,97 ≤ x < 1,01 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4 INDEX 607-022-00-5 REACH Reg. 01-2119475103-46

Geraniol

CAS 106-24-1 0,59 ≤ x < 0,64 Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 203-377-1

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REACH Reg. 01-2119552430-49-XXXX

beta-Damascenone

CAS 23696-85-7 $0.19 \le x < 0.24$ Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 245-833-2 Aquatic Chronic 3 H412: ≥ 25%

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REACH Reg. 01-2120105798-49

Butanone

CAS 78-93-3 0 ≤ x < 0,04 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 201-159-0

INDEX 606-002-00-3

REACH Reg. 01-2119457290-43-XXXX

Isopentanol

CAS 123-51-3 0 ≤ x < 0,04 Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

STOT SE 3 H335

EC 204-633-5 STA Inhalation mists/powders: 1,5 mg/l, STA Inhalation vapours: 11 mg/l

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REACH Reg. 01-2119493725-26-XXXX



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SECTION 3. Composition/information on ingredients/

Pentyl Acetate

CAS 628-63-7 $0 \le x < 0.04$ Flam. Liq. 3 H226

EC 211-047-3

INDEX

REACH Reg. Pre registered

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb



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SECTION 6. Accidental release measures .../>>

the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

| DEU | Deutschland | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56 |
|-----|----------------|---|
| ESP | España | Límites de exposición profesional para agentes químicos en España 2021 |
| FRA | France | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| POL | Polska | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy |
| TUR | Türkiye | Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733 |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| EU | OEL EU | Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |

| Isopentanol | | | | | | | | |
|-------------------|---------|--------|-----|----------|-----|------------------------|--|--|
| Threshold Limit \ | /alue | | | | | | | |
| Type | Country | TWA/8h | | STEL/15r | min | Remarks / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| AGW | DEU | 73 | 20 | 146 | 40 | | | |
| VLA | ESP | 366 | 100 | 458 | 125 | | | |
| VLEP | FRA | 360 | 100 | | | | | |
| NDS/NDSCh | POL | 200 | | 400 | | | | |
| WEL | GBR | 366 | 100 | 458 | 125 | | | |
| OEL | EU | 18 | 5 | 37 | 10 | | | |



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SECTION 8. Exposure controls/personal protection

.../>

| Butanone | | | | | | | | |
|-------------------|---------|--------|-----|------------|-----|------------------------|--|--|
| Threshold Limit V | 'alue | | | | | | | |
| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| AGW | DEU | 600 | 200 | 600 | 200 | | | |
| VLA | ESP | 600 | 200 | 900 | 300 | | | |
| VLEP | FRA | 600 | 200 | 900 | 300 | | | |
| VLEP | ITA | 600 | 200 | 900 | 300 | | | |
| NDS/NDSCh | POL | 450 | | 900 | | | | |
| ESD | TUR | 600 | 200 | 900 | 300 | | | |
| WEL | GBR | 600 | 200 | 899 | 300 | | | |
| OEL | EU | 600 | 200 | 900 | 300 | | | |

| Ethyl Acetate | | | | | | | | |
|-------------------|---------|--------|-----|----------|-----|------------------------|--|--|
| Threshold Limit \ | /alue | | | | | | | |
| Туре | Country | TWA/8h | | STEL/15r | min | Remarks / Observations | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| AGW | DEU | 730 | 200 | 1460 | 400 | | | |
| VLA | ESP | 734 | 200 | 1460 | 400 | | | |
| VLEP | FRA | 734 | 200 | 1468 | 400 | | | |
| NDS/NDSCh | POL | 734 | | 1468 | | | | |
| WEL | GBR | 730 | 200 | 1460 | 400 | | | |
| OEL | EU | 734 | 200 | 1468 | 400 | | | |

| | Pentyl Acetate | | | | | | | | |
|-------------------|----------------|--------|-----|----------|-----|------------------------|--|--|--|
| Threshold Limit V | /alue | | | | | | | | |
| Туре | Country | TWA/8h | | STEL/15r | min | Remarks / Observations | | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | | |
| AGW | DEU | 270 | 50 | 270 | 50 | | | | |
| VLA | ESP | 270 | 50 | 540 | 100 | | | | |
| VLEP | FRA | 270 | 50 | 540 | 100 | | | | |
| VLEP | ITA | 270 | 50 | 540 | 100 | | | | |
| NDS/NDSCh | POL | 250 | | 500 | | | | | |
| ESD | TUR | 270 | 50 | 540 | 100 | | | | |
| WEL | GBR | 270 | 50 | 541 | 100 | | | | |
| OEL | EU | 270 | 50 | 540 | 100 | | | | |

Leaend

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.



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Information

SECTION 8. Exposure controls/personal protection

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Value **Properties** Appearance liauid Colour light brown Odour characteristic Melting point / freezing point Not available Initial boiling point Not available Flammability Not available Lower explosive limit Not available Upper explosive limit Not available Flash point 92.5 °C Not available Auto-ignition temperature Hq Not available Kinematic viscosity Not available Solubility soluble in water Partition coefficient: n-octanol/water Not available Vapour pressure Not available 1.0506 Density and/or relative density Not available Relative vapour density Particle characteristics Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.



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SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

Isopentanol

LD50 (Dermal): 970 mg/kg LD50 (Oral): 1300 mg/kg

Geraniol

 LD50 (Dermal):
 > 5000 mg/kg Rabbit

 LD50 (Oral):
 3600 mg/kg Rat

Vanillin

LD50 (Oral): 1400 mg/kg Guinea pig

Ethyl Maltol

 LD50 (Dermal):
 > 5000 mg/kg Rabbit

 LD50 (Oral):
 780 mg/kg Mouse

Butanone

LD50 (Dermal): 6480 mg/kg Coniglio LD50 (Oral): 2193 mg/kg Ratto LC50 (Inhalation mists/powders): 32000 mg/l/4h Topo

Methylbutyric acid 2

STA (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

STA (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

Ethyl Acetate

LD50 (Oral): 4900 mg/kg Rabbit

Pentyl Acetate

LD50 (Oral): 6500 mg/kg Rat

Tetramethylpyrazine

LD50 (Oral): 1910 mg/kg rat

SKIN CORROSION / IRRITATION



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SECTION 11. Toxicological information .../>>

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: beta-Damascenone Geraniol

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available



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SECTION 11. Toxicological information

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Butanone

LC50 - for Fish EC50 - for Crustacea

EC50 - for Algae / Aguatic Plants

beta-Damascenone LC50 - for Fish

EC50 - for Crustacea

2993 mg/l/96h Pimephales promelas (Cavedano americano) 308 mg/l/48h Daphnia magna (Pulce d'acqua grande) 1972 mg/l/72h Pseudokirchneriella subcapitata

5,83 mg/l/96h

1,13 mg/l/48h Daphnia

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7 Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.



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| SECTION 14. Transport information/ | >> |
|------------------------------------|----|
|------------------------------------|----|

| 1 | 4.1. | UN | number | or ID | number |
|---|------|----|--------|-------|--------|
| | | | | | |

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40
Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)



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SECTION 15. Regulatory information

WGK 2: Hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flammable liquid, category 2 Flam. Liq. 2 Acute Tox. 4 Acute toxicity, category 4 Skin Corr. 1B Skin corrosion, category 1B Eye Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2

Specific target organ toxicity - single exposure, category 3 STOT SE 3

Skin Sens. 1 Skin sensitization, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed. H312 Harmful in contact with skin.

Harmful if inhaled H332

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation. Causes skin irritation. H315 H335 May cause respiratory irritation.

May cause an allergic skin reaction. H317 H336 May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. H411

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)



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SECTION 16. Other information .../>

- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

08.