

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758 - GB



Klübersynth UH1 14-151

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| Version | Revision Date: | Date of last issue: 07.10.2021 | Print Date: |
| 1.14 | 27.04.2022 | Date of first issue: 03.07.2014 | 27.04.2022 |

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

1.1 Product identifier

Product name : Klübersynth UH1 14-151

Article-No. : 096037

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

Use of the Sub-
stance/Mixture : Grease

Recommended restrictions
on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Klüber Lubrication München
Geisenhausenerstr. 7
81379 München
Deutschland
Tel: +49 (0) 89 7876 0
Fax: +49 (0) 89 7876 333
info@klueber.com

E-mail address of person
responsible for the SDS : mcm@klueber.com
Material Compliance Management

National contact : Klüber Lubrication Great Britain Limited
Unit 10 Pennine Business Park
Longbow Close
Huddersfield
West Yorkshire HD2 1GQ
Great Britain
Tel: +44-1422-205115
Fax: +44-1422-206073
sales@uk.klueber.com

1.4 Emergency telephone number

Emergency telephone num-
ber : +49 89 7876 700 (24 hrs)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Long-term (chronic) aquatic hazard, Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Synthetic hydrocarbon oil
ester oil
aluminium complex soap

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | specific concentration limit M-Factor Notes Acute toxicity estimate | Concentration (% w/w) |
|-------------------|---|-------------------|--|--------------------------|
| disodium sebacate | 17265-14-4 241-300-3 | Eye Irrit.2; H319 | | >= 1 - < 10 |

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| | | | | |
|---|-------------------------|--|---------------|-------------------|
| White mineral oil (petroleum) | 8042-47-5 232-455-8 | Asp. Tox.1; H304 | | $\geq 1 - < 10$ |
| 2,6-di-tert-butyl-p-cresol | 128-37-0 204-881-4 | Aquatic Acute1; H400 Aquatic Chronic1; H410 | M-Factor: 1/1 | $\geq 0.25 - < 1$ |
| Amines, C12-14-alkyl, isooctyl phosphates | 68187-67-7 269-119-5 | Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1C; H314 Eye Dam.1; H318 Aquatic Acute1; H400 Aquatic Chronic2; H411; EUH071 | | $\geq 0.25 - < 1$ |
| N-methyl-N-[C18-(unsaturated)alkanoyl]glycine | 701-177-3 | Acute Tox.4; H332 Skin Irrit.2; H315 Eye Dam.1; H318 Aquatic Acute1; H400 Aquatic Chronic3; H412 | M-Factor: 1/ | $\geq 0.25 - < 1$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.

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ical attention.
Wash off with soap and water.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
If eye irritation persists, consult a specialist.

If swallowed : Move the victim to fresh air.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
Do not induce vomiting without medical advice.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon oxides
Nitrogen oxides (NOx)
Oxides of phosphorus
Metal oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

Further information : Standard procedure for chemical fires.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
Do not breathe vapours, aerosols.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Clean up promptly by sweeping or vacuum.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Wash hands and face before breaks and immediately after handling the product.
Do not ingest.
Do not repack.
These safety instructions also apply to empty packaging which may still contain product residues.
Keep container closed when not in use.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|----------------------------|----------|-------------------------------|----------------------|-----------------------------|
| 2,6-di-tert-butyl-p-cresol | 128-37-0 | TWA | 10 mg/m ³ | GB EH40GB EH40 (2005-04-06) |

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|---------|-----------------|----------------------------|-------------------------|
| White mineral oil (petroleum) | Workers | Inhalation | Long-term systemic effects | 160 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 220 mg/kg |
| disodium sebacate | Workers | Skin contact | Long-term systemic effects | 10 mg/kg |
| | Workers | Inhalation | Long-term systemic effects | 35.26 mg/m ³ |
| White mineral oil (petroleum) | Workers | Inhalation | Long-term systemic effects | 160 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 220 mg/kg bw/day |
| 2,6-di-tert-butyl-p-cresol | Workers | Inhalation | Long-term systemic effects | 1.76 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 0.5 mg/kg |
| N-methyl-N-[C18-(unsaturated)alkanoyl]glycine | Workers | Inhalation | Long-term systemic effects | 0.8 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 4.2 mg/kg bw/day |

Predicted No Effect Concentration (PNEC):

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| Substance name | Environmental Compartment | Value |
|---|--|---------------|
| isopropyl oleate | Fresh water sediment | 2.978 mg/kg |
| | Marine sediment | 2.978 mg/kg |
| disodium sebacate | Fresh water | 0.018 mg/l |
| | Marine water | 0.002 mg/l |
| | Sewage treatment plant | 10 mg/l |
| | Fresh water sediment | 0.548 mg/kg |
| 2,6-di-tert-butyl-p-cresol | Marine sediment | 0.055 mg/kg |
| | Soil | 0.099 mg/kg |
| | Fresh water | 0.199 µg/l |
| | Marine water | 0.02 µg/l |
| N-methyl-N-[C18-(unsaturated)alkanoyl]glycine | Intermittent use/release | 1.99 µg/l |
| | Microbiological Activity in Sewage Treatment Systems | 0.17 mg/l |
| | Fresh water sediment | 0.0996 mg/kg |
| | Marine sediment | 0.00996 mg/kg |
| | Soil | 0.04769 mg/kg |
| | Oral | 8.33 mg/kg |
| | Fresh water | 0.00043 mg/l |
| | Marine water | 0.000043 mg/l |
| | Microbiological Activity in Sewage Treatment Systems | 1 mg/l |
| | Fresh water sediment | 0.057 mg/kg |
| | Marine sediment | 0.006 mg/kg |
| | Soil | 1.71 mg/kg |

8.2 Exposure controls

Engineering measures

none

Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection

Material : Nitrile rubber
Break through time : > 10 min
Protective index : Class 1

Remarks : For prolonged or repeated contact use protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type P

Protective measures : The type of protective equipment must be selected according

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to the concentration and amount of the dangerous substance at the specific workplace.
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | |
|--|---|---|
| Appearance | : | paste |
| Colour | : | beige |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| pH | : | Not applicable substance/mixture is non-soluble (in water) |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | Not applicable |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Combustible Solids |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | < 0.001 hPa (20 °C) |
| Relative vapour density | : | No data available |
| Relative density | : | 0.89 (20 °C) Reference substance: Water The value is calculated |

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| | | |
|--|---|-----------------------------------|
| Density | : | 0.89 g/cm ³ (20 °C) |
| Bulk density | : | No data available |
| Solubility(ies) | : | |
| Water solubility | : | insoluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | Not applicable |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | No data available |

9.2 Other information

| | | |
|-------------------|---|-------------------|
| Sublimation point | : | No data available |
| Self-ignition | : | No data available |

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

| | | |
|---------------------|---|---|
| Hazardous reactions | : | No dangerous reaction known under conditions of normal use. |
|---------------------|---|---|

10.4 Conditions to avoid

| | | |
|---------------------|---|--|
| Conditions to avoid | : | No conditions to be specially mentioned. |
|---------------------|---|--|

10.5 Incompatible materials

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Materials to avoid : No materials to be especially mentioned.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

Components:

disodium sebacate:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

White mineral oil (petroleum):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

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2,6-di-tert-butyl-p-cresol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 402

Amines, C12-14-alkyl, isooctyl phosphates:

Acute oral toxicity : LD50 (Rat): 1,000 mg/kg
Method: OECD Test Guideline 423
GLP: yes

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male): 1.05 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Skin corrosion/irritation

Product:

Remarks : This information is not available.

Components:

disodium sebacate:

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : no

White mineral oil (petroleum):

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

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2,6-di-tert-butyl-p-cresol:

| | | |
|------------|---|--------------------|
| Species | : | Rabbit |
| Assessment | : | No skin irritation |
| Result | : | No skin irritation |

Amines, C12-14-alkyl, isooctyl phosphates:

| | | |
|---------|---|---|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 404 |
| Result | : | Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. |
| GLP | : | yes |

N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:

| | | |
|------------|---|---------------------|
| Species | : | Rabbit |
| Assessment | : | Irritating to skin. |
| Result | : | Irritating to skin. |

Serious eye damage/eye irritation

Product:

| | | |
|---------|---|------------------------------------|
| Remarks | : | This information is not available. |
|---------|---|------------------------------------|

Components:

disodium sebacate:

| | | |
|------------|---|-------------------------|
| Species | : | Rabbit |
| Assessment | : | Irritating to eyes. |
| Method | : | OECD Test Guideline 437 |
| Result | : | Irritating to eyes. |
| GLP | : | yes |

White mineral oil (petroleum):

| | | |
|------------|---|-------------------------|
| Species | : | Rabbit |
| Assessment | : | No eye irritation |
| Method | : | OECD Test Guideline 405 |
| Result | : | No eye irritation |
| GLP | : | yes |

2,6-di-tert-butyl-p-cresol:

| | | |
|------------|---|-------------------|
| Species | : | Rabbit |
| Assessment | : | No eye irritation |
| Method | : | Draize Test |
| Result | : | No eye irritation |

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Amines, C12-14-alkyl, isooctyl phosphates:

| | |
|------------|-----------------------------------|
| Assessment | : Risk of serious damage to eyes. |
| Result | : Risk of serious damage to eyes. |

N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:

| | |
|------------|-----------------------------------|
| Species | : Rabbit |
| Assessment | : Risk of serious damage to eyes. |
| Result | : Risk of serious damage to eyes. |

Respiratory or skin sensitisation

Product:

| | |
|---------|--------------------------------------|
| Remarks | : This information is not available. |
|---------|--------------------------------------|

Components:

disodium sebacate:

| | |
|------------|--|
| Species | : Guinea pig |
| Assessment | : Did not cause sensitisation on laboratory animals. |
| Result | : Did not cause sensitisation on laboratory animals. |

White mineral oil (petroleum):

| | |
|------------|--------------------------------------|
| Test Type | : Buehler Test |
| Species | : Guinea pig |
| Assessment | : Does not cause skin sensitisation. |
| Method | : OECD Test Guideline 406 |
| Result | : Does not cause skin sensitisation. |
| GLP | : yes |

2,6-di-tert-butyl-p-cresol:

| | |
|------------|--------------------------------------|
| Species | : Humans |
| Assessment | : Does not cause skin sensitisation. |
| Result | : Does not cause skin sensitisation. |

Amines, C12-14-alkyl, isooctyl phosphates:

| | |
|------------|--|
| Species | : Guinea pig |
| Assessment | : Did not cause sensitisation on laboratory animals. |
| Method | : OECD Test Guideline 406 |
| Result | : Did not cause sensitisation on laboratory animals. |
| GLP | : yes |

N-methyl-N-[C18-(unsaturated)alkanoyl]glycine:

| | |
|-----------|---------------------|
| Test Type | : Maximisation Test |
| Species | : Guinea pig |

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Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

disodium sebacate:

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

White mineral oil (petroleum):

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

2,6-di-tert-butyl-p-cresol:

Genotoxicity in vitro : Test Type: Ames test
Result: negative
Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Result: negative

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Amines, C12-14-alkyl, isooctyl phosphates:

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Product:

Remarks : No data available

Components:

White mineral oil (petroleum):

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

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Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

Components:

disodium sebacate:

Reproductive toxicity - Assessment : - Fertility -
No toxicity to reproduction
- Teratogenicity -
No effects on or via lactation

White mineral oil (petroleum):

Reproductive toxicity - Assessment : - Fertility -
No toxicity to reproduction
- Teratogenicity -
No effects on or via lactation

2,6-di-tert-butyl-p-cresol:

Reproductive toxicity - Assessment : - Fertility -
No toxicity to reproduction

STOT - single exposure

Components:

White mineral oil (petroleum):

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

2,6-di-tert-butyl-p-cresol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

White mineral oil (petroleum):

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Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

2,6-di-tert-butyl-p-cresol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Aspiration toxicity

Product:

This information is not available.

Components:

disodium sebacate:

No aspiration toxicity classification

White mineral oil (petroleum):

May be fatal if swallowed and enters airways.

2,6-di-tert-butyl-p-cresol:

No aspiration toxicity classification

Further information

Product:

Remarks : Information given is based on data on the components and the toxicology of similar products.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

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Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms :
Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Other adverse effects

Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Additional ecological information : Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not dispose of with domestic refuse.
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.
Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

Waste Code : used product, unused product
12 01 12*, spent waxes and fats

uncleaned packagings
15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

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IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that de- : Not applicable

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plete the ozone layer
(EC 1005/2009)

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable
tants (recast)
(EU POP)

Regulation (EC) No 649/2012 of the European Parlia- : Not applicable
ment and the Council concerning the export and import
of dangerous chemicals
(EU PIC)

UK REACH List of substances subject to authorisation : Not applicable
(Annex XIV)
(UK. REACH Annex XIV)

GB Export and import of hazardous chemicals - Prior : Not applicable
Informed Consent (PIC) Regulation
(GB PIC)

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

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

| | |
|--------|---|
| EUH071 | : Corrosive to the respiratory tract. |
| H302 | : Harmful if swallowed. |
| H304 | : May be fatal if swallowed and enters airways. |
| H312 | : Harmful in contact with skin. |
| H314 | : Causes severe skin burns and eye damage. |
| H315 | : Causes skin irritation. |
| H318 | : Causes serious eye damage. |
| H319 | : Causes serious eye irritation. |
| H332 | : Harmful if inhaled. |
| 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. |
| H412 | : Harmful to aquatic life with long lasting effects. |

Full text of other abbreviations

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GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Classification of the mixture:

Aquatic Chronic 3 H412

Classification procedure:

Calculation method

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from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.