

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - LV
(Commission Regulation (EU) 2020/878)



PETAMO GHY 133 N (H)

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 08.09.2021 | Print Date: |
| 3.6 | 11.10.2021 | Date of first issue: 28.07.2015 | 11.10.2021 |

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

1.1 Product identifier

Product name : PETAMO GHY 133 N (H)

Article-No. : 094148

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 : Tallmac Tehnika OÜ
Mustamäe tee 44/Artelli 13a
10621 Tallinn
Estonia
Tel + 372 656 2999
mailto: tallmac@tallmac.ee

1.4 Emergency telephone number

Emergency telephone num-
ber : +371 67042473
Poisoning and Drug Information Center (24/7)

112
State Fire and Rescue Service (24/7)

+49 89 7876 700 (24/7)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Hazard statements : H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Response:
P391 Collect spillage.

Additional Labelling

EUH208 Contains Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol. May produce an allergic reaction.

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.

Ecological information: 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.

Toxicological information: 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mineral oil.
Synthetic hydrocarbon oil
polyurea

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Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | specific concentration limit M-Factor Notes Acute toxicity estimate | Concentration (% w/w) |
|---|--|--|--|--------------------------|
| reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097) | 430-980-9 01-0000017722-71-0001 01-0000017722-71-0002 01-0000017722-71-0000 | Aquatic Chronic4; H413 | | >= 2,5 - < 10 |
| Phenol, isopropylated, phosphate (3:1) | 68937-41-7 273-066-3 01-2119535109-41-XXXX | Repr.2; H361 STOT RE2; H373 Aquatic Chronic1; H410 | M-Factor: /10 | >= 1 - < 2,5 |
| Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol | 946-010-7 01-2120770934-44-XXXX | Skin Sens.1; H317 | | >= 0,1 - < 1 |
| triphenyl phosphate | 115-86-6 204-112-2 | Aquatic Acute1; H400 Aquatic Chronic2; H411 | M-Factor: 1/1 | >= 0,25 - < 1 |
| Substances with a workplace exposure limit : | | | | |
| residual oils (petroleum), hydrotreated | 64742-57-0 265-160-8 649-470-00-4 01-2119489287-22-XXXX | Not classified | Note L | >= 50 - < 70 |

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|-------------------------|---|
| If inhaled | : Obtain medical attention. 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 | : Take off all contaminated clothing immediately. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. Wash off immediately with plenty of water. |
| 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. Obtain medical attention. Never give anything by mouth to an unconscious person. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|----------|--|
| Symptoms | : Allergic appearance |
| Risks | : May cause an allergic skin reaction. |

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|--|
| Treatment | : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine. |
|-----------|--|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
|------------------------------|--|
| Suitable extinguishing media | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing | : High volume water jet |

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media

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)
Sulphur oxides
Oxides of phosphorus

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.
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.
Persons with a history of skin sensitisation problems or asth-

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ma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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 get in eyes or mouth or on skin.

Do not get on skin or clothing.

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.

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 |
|---|------------|-------------------------------|---------------------|---------------------|
| residual oils (petroleum), hydrotreated | 64742-57-0 | AER 8 st | 5 mg/m ³ | LV OEL (2011-02-01) |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------------------------|----------|--|---------------|---------------------|
| O,O,O-triphenyl phosphorothioate | 597-82-0 | Cholinesterase activity: 70 % of baseline (erythrocytes) | | LV BEI (2007-05-18) |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|---------|-----------------|--------------------------|-------|
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| residual oils (petroleum), hydrotreated | Workers | Inhalation | Long-term systemic effects | 2,7 mg/m3 |
| | Workers | Inhalation | Acute systemic effects | 5,6 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 1 mg/kg |
| O,O,O-triphenyl phosphorothioate | Workers | Inhalation | Long-term systemic effects | 1,39 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 0,4 mg/kg |
| Phenol, isopropylated, phosphate (3:1) | Workers | Inhalation | Long-term systemic effects | 0,145 mg/m3 |
| | Workers | Inhalation | Acute systemic effects | 700 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 0,416 mg/kg bw/day |
| | Workers | Skin contact | Acute systemic effects | 2000 mg/kg bw/day |
| | Workers | Skin contact | Acute local effects | 16 mg/cm2 |
| Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol triphenyl phosphate | Workers | Dermal | Long-term systemic effects | 8,33 mg/kg bw/day |
| | Workers | Inhalation | Long-term systemic effects | 5,2 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 5,55 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|--|---------------------------|-------------------------------|
| O,O,O-triphenyl phosphorothioate | Sewage treatment plant | 1 mg/l |
| | Soil | 2,37 mg/l |
| Phenol, isopropylated, phosphate (3:1) | Fresh water | 0 mg/l |
| | Intermittent use/release | 0,015 mg/l |
| | Marine water | 0 mg/l |
| | Sewage treatment plant | 100 mg/kg |
| | Fresh water sediment | 0,185 mg/kg dry weight (d.w.) |
| | Marine sediment | 0,018 mg/kg dry weight (d.w.) |
| | Soil | 2,5 mg/kg dry weight (d.w.) |
| | Oral | 1,85 mg/kg |
| triphenyl phosphate | Fresh water | 0,004 mg/l |
| | Intermittent use/release | 0,003 mg/l |
| | Marine water | 0,0004 mg/l |
| | Sewage treatment plant | 5 mg/l |
| | Fresh water sediment | 1,103 mg/kg dry weight (d.w.) |
| | Marine sediment | 0,11 mg/kg dry |

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| | | |
|--|------|-------------------------------|
| | | weight (d.w.) |
| | Soil | 0,218 mg/kg dry weight (d.w.) |
| | Oral | 16,667 mg/kg |

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

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 : Wear 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.
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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 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

Physical state : paste
Colour : brown
Odour : characteristic
Odour Threshold : No data available

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| | | |
|--|---|--|
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flammability | : | Combustible Solids |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Flash point | : | Not applicable |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature Decomposition temperature | : | No data available |
| pH | : | Not applicable |
| Viscosity Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | Not applicable |
| Solubility(ies) Water solubility | : | insoluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure | : | < 0,001 hPa (20 °C) |
| Relative density | : | 0,900 (20 °C) Reference substance: Water The value is calculated |
| Density | : | 0,90 g/cm ³ (20 °C) |
| Bulk density | : | No data available |
| Relative vapour density | : | No data available |

9.2 Other information

| | | |
|------------|---|---------------|
| Explosives | : | Not explosive |
|------------|---|---------------|

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| | | |
|----------------------|---|-------------------|
| Oxidizing properties | : | No data available |
| Self-ignition | : | No data available |
| Evaporation rate | : | No data available |
| Sublimation point | : | 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

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 | : | Symptoms: Redness, Local irritation |

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

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Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 423
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Phenol, isopropylated, phosphate (3:1):

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 200 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 10.000 mg/kg
GLP: no

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 425
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

triphenyl phosphate:

Acute oral toxicity : LD50 (Rat): > 20.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 200 mg/l
Exposure time: 1 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): > 10.000 mg/kg
Method: OECD Test Guideline 402

residual oils (petroleum), hydrotreated:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

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Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : This information is not available.

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

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

Phenol, isopropylated, phosphate (3:1):

Species : Rabbit
Exposure time : 72 h
Assessment : No skin irritation
Result : No skin irritation
GLP : no

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Species : reconstructed human epidermis (RhE)
Assessment : No skin irritation
Result : No skin irritation

triphenyl phosphate:

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

residual oils (petroleum), hydrotreated:

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

Serious eye damage/eye irritation

Product:

Remarks : This information is not available.

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Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

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

Phenol, isopropylated, phosphate (3:1):

| | | |
|------------|---|-------------------|
| Species | : | Rabbit |
| Assessment | : | No eye irritation |
| Result | : | No eye irritation |
| GLP | : | no |

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

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

triphenyl phosphate:

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

residual oils (petroleum), hydrotreated:

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

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

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

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Phenol, isopropylated, phosphate (3:1):

| | | |
|------------|---|--|
| Species | : | Mouse |
| Assessment | : | Did not cause sensitisation on laboratory animals. |
| Method | : | OECD Test Guideline 429 |
| Result | : | Did not cause sensitisation on laboratory animals. |
| GLP | : | yes |

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

| | | |
|------------|---|--|
| Assessment | : | May cause sensitisation by skin contact. |
| Result | : | May cause sensitisation by skin contact. |

triphenyl phosphate:

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

residual oils (petroleum), hydrotreated:

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

| | | |
|------------|---|---|
| Assessment | : | Does not cause respiratory sensitisation. |
| Result | : | Does not cause respiratory sensitisation. |

Germ cell mutagenicity

Product:

| | | |
|-----------------------|---|----------------------------|
| Genotoxicity in vitro | : | Remarks: No data available |
| Genotoxicity in vivo | : | Remarks: No data available |

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

| | | |
|-----------------------|---|--|
| Genotoxicity in vitro | : | Test Type: Ames test Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative |
|-----------------------|---|--|

| | | |
|--|---|--|
| | : | Test Type: Chromosome aberration test in vitro Test system: Chinese hamster cells |
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Method: OECD Test Guideline 473

Result: negative

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

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

triphenyl phosphate:

Genotoxicity in vitro : Test Type: reverse mutation assay
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

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

Carcinogenicity

Product:

Remarks : No data available

Components:

triphenyl phosphate:

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

residual oils (petroleum), hydrotreated:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

Components:

Phenol, isopropylated, phosphate (3:1):

Reproductive toxicity - Assessment : - Fertility -

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

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- Teratogenicity -

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Reproductive toxicity - Assessment : - Fertility -
Animal testing did not show any effects on fertility.

triphenyl phosphate:

Effects on foetal development : Species: Rabbit
Application Route: Oral
General Toxicity Maternal: NOAEL: ≥ 200 mg/kg body weight
Teratogenicity: NOAEL: ≥ 200 mg/kg body weight
Developmental Toxicity: NOAEL: ≥ 200 mg/kg body weight
Embryo-foetal toxicity: NOAEL: ≥ 200 mg/kg body weight
Method: OECD Test Guideline 414
Result: No effects on fertility and early embryonic development were detected.

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

STOT - single exposure

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

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

STOT - repeated exposure

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

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

Phenol, isopropylated, phosphate (3:1):

Exposure routes : Ingestion
Target Organs : ovaries, Testes, Liver, Adrenal gland
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

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Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

| | | |
|-------------------|---|-------------------------|
| Species | : | Rat |
| NOAEL | : | 1.000 mg/kg |
| Application Route | : | Oral |
| Method | : | OECD Test Guideline 407 |

triphenyl phosphate:

| | | |
|-------------------|---|-------------------------|
| Species | : | Rat |
| NOAEL | : | 105 mg/kg |
| Application Route | : | Oral |
| Method | : | OECD Test Guideline 408 |

| | | |
|-------------------|---|-------------|
| Species | : | Rabbit |
| NOAEL | : | 1.000 mg/kg |
| Application Route | : | Dermal |

Aspiration toxicity

Product:

This information is not available.

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

No aspiration toxicity classification

Phenol, isopropylated, phosphate (3:1):

No aspiration toxicity classification

triphenyl phosphate:

No aspiration toxicity classification

residual oils (petroleum), hydrotreated:

No aspiration toxicity classification

Further information

Product:

Remarks : Information given is based on data on the components and

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the toxicology of similar products.

SECTION 12: Ecological information

12.1 Toxicity

Product:

| | | |
|---|---|--|
| Toxicity to fish | : | Remarks: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| Toxicity to daphnia and other aquatic invertebrates | : | Remarks: No data available |
| Toxicity to algae/aquatic plants | : | Remarks: No data available |
| Toxicity to microorganisms | : | Remarks: No data available |

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

| | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes |
| Toxicity to algae/aquatic plants | : | EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes |
| Toxicity to microorganisms | : | EC50 (activated sludge): > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes |

Phenol, isopropylated, phosphate (3:1):

| | | |
|------------------|---|--|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 1,6 mg/l |
|------------------|---|--|

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Exposure time: 96 h
Test Type: static test
Remarks: Information given is based on tests on the mixture itself.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,44 mg/l
Exposure time: 48 h
Test Type: semi-static test
Remarks: Information given is based on tests on the mixture itself.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 2,5 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: Information given is based on tests on the mixture itself.

Toxicity to fish (Chronic toxicity) : NOEC: 0,0031 mg/l
Exposure time: 33 d
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0415 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 10

triphenyl phosphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,36 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,25 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

EL10 (Pseudokirchneriella subcapitata (green algae)): 0,25 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic tox- : 1

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icity)

| | | |
|--|---|---|
| Toxicity to microorganisms | : | NOEC (activated sludge): 100 mg/l Exposure time: 28 h |
| Toxicity to fish (Chronic toxicity) | : | NOEC: 0,037 mg/l Exposure time: 30 d Species: Oncorhynchus mykiss (rainbow trout) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0,254 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 |
| M-Factor (Chronic aquatic toxicity) | : | 1 |

residual oils (petroleum), hydrotreated:

| | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 48 h Test Type: Immobilization |

12.2 Persistence and degradability

Product:

| | | |
|-------------------------------|---|----------------------------|
| Biodegradability | : | Remarks: No data available |
| Physico-chemical removability | : | Remarks: No data available |

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

| | | |
|------------------|---|---|
| Biodegradability | : | Test Type: aerobic Inoculum: activated sludge Result: Not readily biodegradable. Biodegradation: 23,9 % Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes |
|------------------|---|---|

Phenol, isopropylated, phosphate (3:1):

| | | |
|------------------|---|--|
| Biodegradability | : | Result: Not rapidly biodegradable Biodegradation: 17,9 % Exposure time: 28 d |
|------------------|---|--|

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Method: OECD Test Guideline 301D
GLP: yes

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Biodegradability : Result: Not rapidly biodegradable

triphenyl phosphate:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 83 - 94 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

residual oils (petroleum), hydrotreated:

Biodegradability : Result: Not rapidly biodegradable

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).

Components:

reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097):

Partition coefficient: n-octanol/water : log Pow: > 6 (20 °C)
Method: OECD Test Guideline 117

Phenol, isopropylated, phosphate (3:1):

Partition coefficient: n-octanol/water : log Pow: 4,92 - 5,17 (25 °C)

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-octanol/water : log Pow: 9,01

triphenyl phosphate:

Bioaccumulation : Species: Oryzias latipes (Orange-red killifish)
Exposure time: 18 d
Concentration: 0,01 mg/l
Bioconcentration factor (BCF): 144

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Partition coefficient: n-octanol/water : log Pow: 4,6 (20 °C)

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..

Components:

Phenol, isopropylated, phosphate (3:1):

Assessment : Non-classified PBT substance. Non-classified vPvB substance.

12.6 Endocrine disrupting properties

Product:

Assessment : 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.

12.7 Other adverse effects

Product:

Additional ecological information : Toxic 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.

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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 : UN 3077
RID : UN 3077
IMDG : UN 3077
IATA : UN 3077

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Triaryl Phosphate Isopropylated, triphenyl phosphate)
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Triaryl Phosphate Isopropylated, triphenyl phosphate)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Triaryl Phosphate Isopropylated, triphenyl phosphate)
IATA : Environmentally hazardous substance, solid, n.o.s.
(Triaryl Phosphate Isopropylated, triphenyl phosphate)

14.3 Transport hazard class(es)

ADR : 9
RID : 9
IMDG : 9

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IATA : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

RID

Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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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, preparations 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 deplete the ozone layer (EC 1005/2009) | : | Not applicable |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast) (EU POP) | : | Not applicable |
| Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals (EU PIC) | : | Not applicable |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | : | E2 ENVIRONMENTAL HAZARDS |
| Volatile organic compounds | : | Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 2,18 % |

Other regulations:

Cabinet Regulation No.325 of 15 May 2007 (as amended) "Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces".
Cabinet Regulation No.494 of 7 August 2018 on Procedures for recording of waste shipments
Cabinet Regulation No.795 of 22 December 2015 on Procedures for Registration of Chemical Substances and Mixtures and Their Database.

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15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

| | | |
|------|---|---|
| H317 | : | May cause an allergic skin reaction. |
| H361 | : | Suspected of damaging fertility or the unborn child. |
| H373 | : | May cause damage to organs through prolonged or repeated exposure if swallowed. |
| 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. |
| H413 | : | May cause long lasting harmful effects to aquatic life. |

Full text of other abbreviations

| | | |
|-------------------|---|---|
| Note L | : | The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3. |
| LV BEI | : | Latvia. Biological Exposure Indices |
| LV OEL | : | Latvia. Occupational exposure limit values |
| LV OEL / AER 8 st | : | Limit value measured and calculated for an 8-hour period |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European 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

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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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Aquatic Chronic 2 H411

Classification procedure:

Calculation method

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