



N-Tech® Trans GP

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 22-5-2018 Revision date: 30-9-2022 Supersedes version of: 4-3-2022 Version: 2.4

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

1.1. Product identifier

Product form : Mixture
Trade name : N-Tech® Trans GP
Product code : PG.20.07
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Use of the substance/mixture : Transmission oil
Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Putoline Oil
Dollegoorweg, 15
NL- 7602 EC Almelo
Netherlands
T 0031 (0)546 81 81 65
vib@putoline.com

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|---|--|--|--------------------------------------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Cardiff Centre) University Hospital Llandough | Penlan Road CF64 2XX Llandough | 0344 892 0111 | Only for healthcare professionals |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|---|---|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Highly refined mineral oils and additives.

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic (Note L) | CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-25 | 50 – 80 | Asp. Tox. 1, H304 |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (Note L) | CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878-16 | 10 – 20 | Asp. Tox. 1, H304 |
| Short-, medium- and long-chain alkyl methacrylates copolymer | REACH-no: ACC-ZX665225-90 (Confidential) | 2,5 – 5 | Eye Irrit. 2, H319 |
| Distillates (petroleum), hydrotreated light paraffinic (Note L) | CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-29 | 1 – 2,5 | Asp. Tox. 1, H304 |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | CAS-No.: 1218787-32-6 EC-No.: 620-540-6 REACH-no: 01-2119510877-33 | 0,1 – 1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|-------|--|
| 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine | EC-No.: 939-485-7 REACH-no: 01-2119974116-35 | < 0,1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 |
| Dimantine | CAS-No.: 124-28-7 EC-No.: 204-694-8 REACH-no: 01-2119486676-20 | < 0,1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |
| (Z)-N-9-octadecenylpropane-1,3-diamine | CAS-No.: 7173-62-8 EC-No.: 230-528-9 REACH-no: 01-2119487002-46 | < 0,1 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |

| Specific concentration limits: | | |
|--|--|-----------------------------------|
| Name | Product identifier | Specific concentration limits |
| Short-, medium- and long-chain alkyl methacrylates copolymer | REACH-no: ACC-ZX665225-90 (Confidential) | (75 ≤C < 100) Eye Irrit. 2, H319 |

Comments : The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.

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.
Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : No additional information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

- | | |
|--|--|
| Fire hazard | : Combustible liquid. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. |

5.3. Advice for firefighters

- | | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- | | |
|----------------------|----------------------------|
| Emergency procedures | : Ventilate spillage area. |
|----------------------|----------------------------|

6.1.2. For emergency responders

- | | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- | | |
|-------------------------|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-------------------------------|---|
| Precautions for safe handling | : Provide good ventilation in process area to prevent formation of vapour. |
| Hygiene measures | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

7.2. Conditions for safe storage, including any incompatibilities

- | | |
|---------------------|--|
| Storage conditions | : Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat. |
| Storage temperature | : 0 – 40 °C |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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EU - Indicative Occupational Exposure Limit (IOEL)

Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended

5 mg/m³ - ACGIH TLV (inhalable fraction).

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection

| Type | Field of application | Characteristics | Standard |
|----------------|----------------------|-----------------|----------|
| Safety glasses | Droplet | clear | EN 166 |

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-----------------|----------------------|-------------------|----------------|-------------|------------|
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | ≥0.35 | | EN ISO 374 |

Other skin protection

Materials for protective clothing:

Wear suitable protective clothing

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8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Colour | : Yellow. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : -48 °C - ASTM D5950 (pour point) |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Explosive properties | : Presents no particular fire or explosion hazard. |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 201 °C - ASTM D92 (COC) |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : 34 mm²/s (40 °C) - ASTM D7279 |
| Solubility | : Water: Insoluble / Slightly miscible |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50 °C | : Not available |
| Density | : 0,842 kg/l (15 °C) - ASTM D4052 |
| Relative density | : Not available |
| Relative vapour density at 20 °C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Reacts violently with (strong) oxidizers.

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10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

| | |
|-----------------------|--------------------------------|
| LD50 oral rat | > 5000 mg/kg (OECD 401 method) |
| LD50 dermal rabbit | > 2000 mg/kg (OECD 402 method) |
| LC50 Inhalation - Rat | > 5,53 mg/l (OECD 403 method) |

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

| | |
|-----------------------|----------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 5,53 mg/l/4h |

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine

| | |
|---------------|---|
| LD50 oral rat | 300 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity), Guideline: other: |
|---------------|---|

Dimantine (124-28-7)

| | |
|--------------------|------------|
| LD50 oral rat | 1230 mg/kg |
| LD50 dermal rabbit | 8000 mg/kg |

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

| | |
|-----------------------------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 5,53 mg/l/4h |

(Z)-N-9-octadecenylpropane-1,3-diamine (7173-62-8)

| | |
|---------------|-----------|
| LD50 oral rat | 500 mg/kg |
|---------------|-----------|

Short-, medium- and long-chain alkyl methacrylates copolymer

| | |
|---------------|--------------|
| LD50 oral rat | > 5000 mg/kg |
|---------------|--------------|

Skin corrosion/irritation : Not classified

Dimantine (124-28-7)

| | |
|----|---|
| pH | 10,1 Temp.: 20 °C Concentration: 5 other: |
|----|---|

Serious eye damage/irritation : Not classified

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| Dimantine (124-28-7) | |
|---|--|
| pH | 10,1 Temp.: 20 °C Concentration: 5 other: |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Dimantine (124-28-7) | |
| NOAEL (chronic, oral, animal/male, 2 years) | 42,3 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other: |
| NOAEL (chronic, oral, animal/female, 2 years) | 52,6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other: |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| LOAEL (oral, rat, 90 days) | 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| (Z)-N-9-octadecenylpropane-1,3-diamine (7173-62-8) | |
| NOAEL (subacute, oral, animal/male, 28 days) | 1,25 mg/kg bodyweight |
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |
| N-Tech® Trans GP | |
| Viscosity, kinematic | 34 mm²/s (40 °C) - ASTM D7279 |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | |
| Viscosity, kinematic | < 20,5 mm²/s (40 °C) - ASTM D7279 |
| Aliphatic, alicyclic or aromatic hydrocarbon | Yes |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| Viscosity, kinematic | < 20,5 mm²/s |
| Aliphatic, alicyclic or aromatic hydrocarbon | Yes |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| Viscosity, kinematic | < 20,5 mm²/s |
| Aliphatic, alicyclic or aromatic hydrocarbon | Yes |
| (Z)-N-9-octadecenylpropane-1,3-diamine (7173-62-8) | |
| Viscosity, kinematic | 13,08 mm²/s |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| | |
|--|--|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |

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Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.
(chronic)
Not rapidly degradable

| N-Tech® Trans GP | |
|--|--|
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Crustacea [1] | > 100 mg/l |
| ErC50 algae | 42,4 mg/l |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | |
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Crustacea [1] | > 10000 mg/l |
| NOEC (acute) | ≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 211 method) |
| NOEC chronic fish | > 1000 mg/l |
| NOEC chronic crustacea | > 10 mg/l (Daphnia magna, 21d) (OECD 211 method) |
| NOEC chronic algae | ≥ 100 mg/l |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| LC50 - Fish [1] | > 100 mg/l (Pimephales promelas, 96h) (OECD 203 method) |
| EC50 - Crustacea [1] | > 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method) |
| EC50 72h - Algae [1] | > 100 mg/l |
| NOEC (acute) | ≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method) |
| NOEC chronic crustacea | 10 mg/l (Daphnia magna, 21d) (OECD 211 method) |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6) | |
| LC50 - Fish [1] | 0,1 mg/l |
| EC50 - Crustacea [1] | 0,043 mg/l |
| EC50 72h - Algae [1] | 0,0538 mg/l |
| ErC50 algae | 0,0538 mg/l |
| NOEC chronic crustacea | 0,0107 mg/l |
| NOEC chronic algae | 0,0156 mg/l |
| 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine | |
| LC50 - Fish [1] | 2,22 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| LC50 - Fish [2] | 2,14 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 1,05 mg/l |
| EC50 - Other aquatic organisms [1] | 23,6 mg/l |
| ErC50 algae | 0,0544 mg/l |
| NOEC chronic crustacea | 0,738 mg/l |
| NOEC chronic algae | 0,0421 mg/l |
| Dimantine (124-28-7) | |
| LC50 - Fish [1] | 0,26 mg/l (96 h, Danio rerio) |
| EC50 - Crustacea [1] | 0,0558 mg/l (48 h, Daphnia magna) |
| EC50 72h - Algae [1] | 0,0165 mg/l (72 h, Algae) |

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| | |
|---|---|
| Dimantine (124-28-7) | |
| LOEC (chronic) | 0,108 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0,036 mg/l (21 d, Daphnia, magna) |
| NOEC chronic crustacea | 0,00256 mg/l (72 h, Daphnia magna) |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| LC50 - Fish [1] | > 100 mg/l 96h |
| EC50 - Crustacea [1] | > 10000 mg/l |
| EC50 72h - Algae [1] | ≥ 100 mg/l |
| NOEC chronic crustacea | 10 mg/l 21d |
| (Z)-N-9-octadecenylpropane-1,3-diamine (7173-62-8) | |
| LC50 - Fish [1] | 0,1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 0,013 (0,013 – 0,025) mg/l (Daphnia magna, 48h) |
| EC50 72h - Algae [1] | 0,507 mg/l |
| LOEC (chronic) | 0,32 mg/l |
| NOEC (chronic) | 0,001 – 0,01 mg/l (Daphnia magna, 21d) |
| NOEC chronic crustacea | 0,0011 (≥ 0,001) mg/l |
| Short-, medium- and long-chain alkyl methacrylates copolymer | |
| LC50 - Fish [1] | > 100 mg/l |
| EC50 - Crustacea [1] | > 100 mg/l |
| EC50 72h - Algae [1] | > 100 mg/l |
| NOEC chronic crustacea | > 100 mg/l (21d) |
| 12.2. Persistence and degradability | |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | |
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 31 % (28d) (OECD 301F method) |
| Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) | |
| Biodegradation | 31 % (28d) (OECD 301F method) |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6) | |
| Biodegradation | 63 % (28d) |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| Persistence and degradability | Not established. |
| Biodegradation | 31 % (OECD 301F method) |
| (Z)-N-9-octadecenylpropane-1,3-diamine (7173-62-8) | |
| Biodegradation | 66 % 28 days (OECD 301D method) |
| 12.3. Bioaccumulative potential | |
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | |
| Partition coefficient n-octanol/water (Log Kow) | > 6 |

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| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | |
|---|----------------------------|
| Bioaccumulative potential | Bioaccumulative potential. |
| Distillates (petroleum), hydrotreated light paraffinic (64742-55-8) | |
| Partition coefficient n-octanol/water (Log Pow) | > 6 |
| Bioaccumulative potential | Not established. |
| (Z)-N-9-octadecenylpropane-1,3-diamine (7173-62-8) | |
| Partition coefficient n-octanol/water (Log Pow) | 0 |

12.4. Mobility in soil

| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) | |
|---|---------------------|
| Ecology - soil | Insoluble in water. |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|--|
| Waste treatment methods | : Do not allow into drains or water courses. Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| European List of Waste (LoW) code | : 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|--|---------------|---------------|---------------|---------------|
| 14.1. UN number or ID number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

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14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

VOC Directive (2004/42)

VOC content : 0 %

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Indication of changes

| Section | Changed item | Change | Comments |
|---------|------------------------------|----------|----------|
| | Revision date | Modified | |
| | Supersedes | Modified | |
| 1.2 | Function or use category | Added | |
| 1.2 | Use of the substance/mixture | Added | |

Abbreviations and acronyms:

| | |
|--------|---|
| 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 |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |

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Abbreviations and acronyms:

| | |
|---------|--|
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

Full text of H- and EUH-statements:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| STOT RE 1 | Specific target organ toxicity – Repeated exposure, Category 1 |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.