

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 16/08/2022 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

: EZY OPEN VALVE PEN Trade name

Product code : J990 Product group : Mixtures

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer Distributor

Whitmore Manufacturing LLC Whitmore Europe Limited

930 Whitmore Drive

75087 Rockwall, Texas Foster Avenue, Woodside Park Industrial Estate

Dunstable, Bedfordshire, LU5 5TA USA

T 1.972.771.1000 United Kingdom

T +44 1707 379870 Regulatory@whitmores.com - www.jetlube.com Regulatory@whitmores.com - www.whitmores.com

1.4. Emergency telephone number

: For Chemical Emergency Call CHEMTREC 24hr/day 7days/week **Emergency number**

Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1.703.527.3887

(collect calls accepted)

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|-----------------------------------|-----------------------------------|-----------------------------------|
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | Only for healthcare professionals |
| United Kingdom | Chemtrec - United Kingdom | London | Local (City) +44 20 3807 3798 | |
| United Kingdom | Chemtrec - United Kingdom | | Local (National) +44 870 820 0418 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319 Specific target organ toxicity - Single exposure, Category 3, Respiratory H335

tract irritation

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

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Contains : N-methyl-2-pyrrolidone Hazard statements (CLP) : H315 - Causes skin irritation.

H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

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Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTRE or doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

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 ≥ 0.1% assessed in accordance with REACH Annex XIII

| Component | |
|-------------------------------------|--|
| 2-methylpentane-2,4-diol (107-41-5) | 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 |
| N-methyl-2-pyrrolidone (872-50-4) | 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 %

| Component | |
|-----------|---|
| , , | The substance is not 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 |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|-------|---|
| 2-methylpentane-2,4-diol substance with national workplace exposure limit(s) (GB) | CAS-No.: 107-41-5 EC-No.: 203-489-0 EC Index-No.: 603-053-00-3 | 22.75 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| N-methyl-2-pyrrolidone substance listed as REACH Candidate (1-Methyl-2- pyrrolidone) substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit | CAS-No.: 872-50-4 EC-No.: 212-828-1 EC Index-No.: 606-021-00-7 | 10.89 | Not classified |
| distillates, hydrotreated light | CAS-No.: 64742-47-8 EC-No.: 265-149-8 EC Index-No.: 649-422-00-2 | 2.33 | Asp. Tox. 1, H304 |

| Specific concentration limits: | | |
|--------------------------------|--|--------------------------------|
| Name | Product identifier | Specific concentration limits |
| N-methyl-2-pyrrolidone | CAS-No.: 872-50-4 EC-No.: 212-828-1 EC Index-No.: 606-021-00-7 | (10 ≤C ≤ 100) STOT SE 3, H335 |

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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 after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Eye irritation.

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.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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 : Exercise caution. Spill area may be slippery. Avoid breathing

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

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 : Mechanically recover the product.

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 : Use only outdoors or in a well-ventilated area. Avoid breathing

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| 8.1.1 National occupational exposure and bid N-methyl-2-pyrrolidone (872-50-4) | rogical mini values | |
|--|--|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | | |
| Local name | n-Methyl-2-pyrrolidone | |
| IOEL TWA | 40 mg/m³ | |
| IOEL TWA [ppm] | 10 ppm | |
| IOEL STEL | 80 mg/m³ | |
| IOEL STEL [ppm] | 20 ppm | |
| Remark | Skin | |
| Regulatory reference | COMMISSION DIRECTIVE 2009/161/EU | |
| EU - Biological Limit Value (BLV) | | |
| Local name | N-Methyl-2-pyrrolidone | |
| BLV | 20 mg/g creatinine Parameter: 2-hydroxy-N-methylsuccinimide - Medium: urine - Sampling time: morning-after-shift; 18 hours 70 mg/g creatinine Parameter: 5-hydroxy-N-methyl-2-pyrrolidone - Medium: urine - Sampling time: 2-4 hours after the end of exposure/shift | |
| Regulatory reference | SCOEL List of recommended health-based BLVs and BGVs | |
| United Kingdom - Occupational Exposure Li | imits | |
| Local name | n-Methyl-2-pyrrolidone | |
| WEL TWA (OEL TWA) [1] | 40 mg/m³ | |
| WEL TWA (OEL TWA) [2] | 10 ppm | |
| WEL STEL (OEL STEL) | 80 mg/m³ | |
| WEL STEL (OEL STEL) [ppm] | 20 ppm | |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |
| 2-methylpentane-2,4-diol (107-41-5) | | |
| United Kingdom - Occupational Exposure Limits | | |
| Local name | 2-Methylpentane-2,4-diol | |
| WEL TWA (OEL TWA) [1] | 123 mg/m³ | |
| WEL TWA (OEL TWA) [2] | 25 ppm | |
| WEL STEL (OEL STEL) | 123 mg/m³ | |
| WEL STEL (OEL STEL) [ppm] | 25 ppm | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

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.

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8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Neoprene protective gloves

| Hand protection | | | | | |
|-------------------|---|------------------|-----------------|-------------|----------|
| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR), Neoprene rubber (HNBR) | 2 (> 30 minutes) | 0.3 mm - 0.6 mm | | |

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

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

: Solid

Physical state Colour : amber. Appearance : Paste. Odour : Mild odor. Odour threshold : Not available Melting point : Not available Freezing point : Not applicable **Boiling point** : Not available Flammability : Non flammable. **Explosive limits** : Not applicable Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : > 91 °C Open cup Auto-ignition temperature : Not applicable Decomposition temperature : Not available рΗ : Not available pH solution : Not available : > 22 mm²/s @ 40 °C Viscosity, kinematic

Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available Density : Not available : Not available Relative density Relative vapour density at 20 °C : Not applicable Particle size : Not available Particle size distribution : Not available : Not available Particle shape

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Particle aspect ratio : Not available
Particle aggregation state : Not available
Particle agglomeration state : Not available
Particle specific surface area : Not available
Particle dustiness : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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.

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

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

N-methyl-2-pyrrolidone (872-50-4)

рΗ

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

| distillates, hydrotreated light (64742-47-8) | | |
|--|---|--|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method) | |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity) | |
| LC50 Inhalation - Rat | > 5.28 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 - | |
| N-methyl-2-pyrrolidone (872-50-4) | | |
| LD50 oral rat | 4150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 3100 - 5560 | |
| LD50 dermal rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) | |
| LC50 Inhalation - Rat | > 5.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) | |
| LC50 Inhalation - Rat (Dust/Mist) | > 5.1 mg/l Source: ECHA | |
| 2-methylpentane-2,4-diol (107-41-5) | | |
| LD50 oral rat | > 2000 mg/kg bodyweight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Male / female, Experimental value, Oral, 15 day(s)) | |
| LD50 oral | 3680 mg/kg | |
| LD50 dermal rat | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 15 day(s)) | |
| LC50 Inhalation - Rat | > 55 mg/l (Equivalent or similar to OECD 403, 8 h, Rat, Male, Experimental value, Inhalation (vapours), 14 day(s)) | |
| Skin corrosion/irritation | : Causes skin irritation. | |

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8 – 10 (10 %)

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| | Serious eye damage/irritation | : Causes serious eye irritation. |
|--|--|---|
| Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met) Sommod inutagenicity : Not classified (Based on available data, the classification criteria are not met) N-methyl-2-pyrrolidone (872-50-4) NOAEL (chronic, oral, animal/male, 2 years) **Not classified (Based on available data, the classification criteria are not met) N-methyl-2-pyrrolidone (872-50-4) NOAEL (chronic, oral, animal/male, 2 years) **Not classified (Based on available data, the classification criteria are not met) **NoAEL (chronic, oral, animal/male, 2 years) **NoAEL (chronic, oral, animal/male, 2 | N-methyl-2-pyrrolidone (872-50-4) | |
| Germ celf mutagenicity : Not classified (Based on available data, the classification criteria are not met) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) NOAEL (chronic, oral, animal/male, 2 years) **NOAEL (chronic, oral, animal/male, 2 years) **NOAEL (chronic, oral, animal/female, 6 years) **NOAEL (chronic, oral, animal/f | рН | 8 – 10 (10 %) |
| Carcinogenicity Indicasellical (Based on available data, the classification criteria are not met) Nemethyl-2-pytrolidone (872-50-4) NOAEL (chronic, oral, animal/male, 2 years) Self mgks bodyweight Animal: mouse, Animal ser: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Guideline: EU Method B 32 (Carcinogenicity Test), Guideline: EPA OTS 983 300 (Carcinogenicity), Remarks on results: other:Effect type: oxideline: EPA OTS 983 300 (Carcinogenicity), Remarks on results: other:Effect type: oxideline: EPA OTS 983 300 (Carcinogenicity), Remarks on results: other:Effect type: oxideline: EPA OTS 983 300 (Carcinogenicity), Remarks on results: other:Effect type: oxideline: EPA OTS 983 300 (Carcinogenicity), Remarks on results: other:Effect type: oxideline: EPA OTS 983 300 (Carcinogenicity), Remarks on results: other:Effect type: oxideline: EPA OTS 983 300 (Carcinogenicity), Remarks on results: other:Effect type: oxideline: EPA OTS 983 300 (Carcinogenicity), Remarks on results: other:Effect type: oxideline: EPA OTS 983 300 (Carcinogenicity), Remarks on results: other:Effect type: oxideline: EPA OTS 983 300 (Carcinogenicity), Remarks on results: other:Effect type: oxideline: EPA OTS 983 300 (EAR) NOAEL (animal/male, F0P) > 3000 mg/kg bodyweight Animal: rat, Animal sex: male. Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: OECD Guideline 421 (Subacute Inhalation To | Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| N-methyl-2-pyrrolidone (872-50-4) NOAEL (chronic, oral, animal/male, 2 years) Carcinogenicity Studies), Guideline. EU Method 5.32 (Carcinogenicity Test), Guideline 451 (Carcinogenicity) Studies), Guideline. EU Method 5.32 (Carcinogenicity Test), Guideline 451 (Carcinogenicity), Remarks on results: other-Effect type: toxicity (migrated information) NOAEL (chronic, oral, animal/female, 2 years) 2 2tt mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline. EDG Guideline EPA OTS 788.3300 (Carcinogenicity), Remarks on results: other-Effect type: toxicity (migrated information) NOAEL (animal/male, FOP) 2 3000 mg/kg bodyweight Animal: rat, Animal sex: male (animalized, FOP) 2 3000 mg/kg bodyweight Animal: rat, Animal sex: male (animalized, FOP) 3 300 mg/kg bodyweight Animal: rat, Animal sex: male (animalized, FOP) 4 300 mg/kg bodyweight Animal: rat, Animal sex: male (animalized), FOP) 5 300 mg/kg bodyweight Animal: rat, Animal sex: male (animalized), FOP) 5 300 mg/kg bodyweight Animal: rat, Animal sex: male (animalized), FOP) 5 300 mg/kg bodyweight Animal: rat, Animal sex: male (animalized), FOP) 5 300 mg/kg bodyweight Animal: rat, Animal sex: male (animalized), FOP) 6 300 mg/kg bodyweight Animal: rat, Animal sex: male (animalized), FOP) 7 300 mg/kg bodyweight Animal: rat, Animal sex: male (animalized), FOP) 8 300 mg/kg bodyweight Animal: rat, Animal sex: male (animalized), FOP) 9 4 300 mg/kg bodyweight Animal: rat, Animal sex: male (animalized), FOP) 1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| NOAEL (chronic, oral, animal/male, 2 years) NOAEL (chronic, oral, animal/male, 2 years) NOAEL (chronic, oral, animal/female, 2 years) NOAEL (animal/male, FoIP) NOAEL (animal/male, FoIP) Solo mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: CECD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CECD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CECD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CECD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CECD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CECD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CECD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CECD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CHCD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CHCD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CHCD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CHCD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CHCD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CHCD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CHCD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CHCD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CHCD Guideline 421 (Reproduction of Developmental Toxicity Screening Test), Guideline: CHCD Guideline 421 (Reprodu | Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Cararioogenicity Studies), Guideline: EU Method B. 3.2 (Cararioogenicity Test), Guideline: EPA OTS 78.3300 (Cararioogenicity), Remarks on results: other Effect type: toxicity (migrated information) NOAEL (chronic, oral, animal/female, 2 years) = 221 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: CPCD Guideline 451 (Cararioogenicity Studies), Guideline: EU Method B. 32 (Carariogenicity: Other Effect type: toxicity (migrated information) Reproductive toxicity Not classified (Based on available data, the classification criteria are not met) | N-methyl-2-pyrrolidone (872-50-4) | |
| daft (Carcinogenicity Studies), Guideline: EU Method B.32 (Carcinogenicity Test), Guideline: EPA OTS 788 3300 (Carcinogenicity), Remarks on results: other:Effect type: toxicity (migrated information) | NOAEL (chronic, oral, animal/male, 2 years) | (Carcinogenicity Studies), Guideline: EU Method B.32 (Carcinogenicity Test), Guideline: EPA OTS 798.3300 (Carcinogenicity), Remarks on results: other:Effect type: toxicity |
| Distillates, hydrotreated light (64742-47-8) | NOAEL (chronic, oral, animal/female, 2 years) | 451 (Carcinogenicity Studies), Guideline: EU Method B.32 (Carcinogenicity Test), Guideline: EPA OTS 798.3300 (Carcinogenicity), Remarks on results: other:Effect type: |
| NOAEL (animal/male, F0/P) 2-methylpentane-2,4-diol (107-41-5) LOAEL (animal/male, F0/P) Soo mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity, Screening Test), Guideline: other Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 NOAEL (animal/male, F0/P) 200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 NOAEL (animal/female, F0/P) 200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: Other Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 STOT-single exposure 3 May cause respiratory irritation. STOT-repeated exposure 3 May cause respiratory irritation. STOT-geated exposure 3 NoAEL (oral, rat, 90 days) NOAEL (oral, rat, 90 days) NOAEC (inhalation, rat, vapour, 90 days) 2 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) N-methyl-2-pyrrolidone (872-50-4) LOAEC (inhalation, rat, dust/mist/rume, 90 days) 1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) NOAEL (dermal, rat/rabbit, 90 days) 1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) 2-methylpentane-2,4-diol (107-41-5) NOAEC (inhalation, rat, dust/mist/rume, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Study) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideli | Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| 2-methylpentane-2,4-diol (107-41-5) LOAEL (animal/male, F0/P) So0 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 NOAEL (animal/male, F0/P) 200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity) Screening Test), Guideline: other:Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 NOAEL (animal/female, F0/P) ≥ 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity) Screening Test), Guideline: other:Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 STOT-single exposure : May cause respiratory irritation. STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met) distillates, hydrotreated tight (64742-47-8) NOAEL (oral, rat, 90 days) NOAEC (inhalation, rat, vapour, 90 days) So mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 3 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose 90-Day Study) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose 90-Day Oral Toxicity in Rodentis) > 10 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose | distillates, hydrotreated light (64742-47-8) | |
| LOAEL (animal/male, F0/P) 500 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 NOAEL (animal/male, F0/P) 200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other:Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 NOAEL (animal/female, F0/P) ≥ 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 NOAEL (animal/female, F0/P) ≥ 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 STOT-single exposure ∶ May cause respiratory irritation. TOT-repeated exposure ∶ Not classified (Based on available data, the classification criteria are not met) distillates, hydrotreated light (64742-47-8) NOAEL (oral, rat, 90 days) NOAEC (inhalation, rat, vapour, 90 days) NOAEC (inhalation, rat, vapour, 90 days) 1 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) NOAEL (dermal, rat/rabbit, 90 days) 826 mg/kg bodyweight Animal: ratbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 826 mg/kg bodyweight Animal: ratbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose Dermal Toxicity: 1/28-Day Study) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose Dermal Toxicity: 1/28-Day Study) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose Dermal Toxicity: 1/28-Day Study) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD | NOAEL (animal/male, F0/P) | ≥ 3000 mg/kg bodyweight Animal: rat, Animal sex: male |
| Reproduction / Developmental Toxicity, Screening Test), Guideline: other:Commission Regulation (EC) No. 440/2008, Part B. 3, 30 May 2008 NOAEL (animal/male, F0/P) 200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:Commission Regulation (EC) No. 440/2008, Part B. 3, 30 May 2008 NOAEL (animal/female, F0/P) ≥ 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:Commission Regulation (EC) No. 440/2008, Part B. 3, 30 May 2008 STOT-single exposure : May cause respiratory irritation. : Not classified (Based on available data, the classification criteria are not met) distillates, hydrotreated light (64742-47-8) **To mg/kg bodyweight Animal: rat, Animal sex: female **To mg/kg bodyweight Animal: rat, Cuideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) **To mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) **To mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) **To mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) **Study ** | 2-methylpentane-2,4-diol (107-41-5) | |
| Reproduction / Developmental Toxicity Screening Test), Guideline: other:Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 NOAEL (animal/female, F0/P) 2 1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 STOT-single exposure : May cause respiratory irritation. STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met) distillates, hydrotreated light (64742-47-8) NOAEL (oral, rat, 90 days) 750 mg/kg bodyweight Animal: rat, Animal sex: female > 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) N-methyl-2-pyrrolidone (872-50-4) LOAEC (inhalation, rat, dust/mist/fume, 90 days) 1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) NOAEL (dermal, rat/rabbit, 90 days) 286 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 0.5 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 0.5 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | LOAEL (animal/male, F0/P) | (Reproduction / Developmental Toxicity Screening Test), Guideline: other:Commission |
| 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:Commission Regulation (EC) No. 440/2008, Part B.3, 30 May 2008 STOT-single exposure : May cause respiratory irritation. STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met) distillates, hydrotreated light (64742-47-8) NOAEL (oral, rat, 90 days) NOAEC (inhalation, rat, vapour, 90 days) NOAEC (inhalation, rat, vapour, 90 days) NOAEC (inhalation, rat, dust/mist/fume, 90 days) NOAEC (inhalation, rat, dust/mist/fume, 90 days) NOAEL (dermal, rat/rabbit, 90 days) NOAEC (inhalation, rat, dust/mist/fume, 90 | NOAEL (animal/male, F0/P) | (Reproduction / Developmental Toxicity Screening Test), Guideline: other:Commission |
| STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met) distillates, hydrotreated light (64742-47-8) NOAEL (oral, rat, 90 days) 750 mg/kg bodyweight Animal: rat, Animal sex: female NOAEC (inhalation, rat, vapour, 90 days) 2 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) N-methyl-2-pyrrolidone (872-50-4) LOAEC (inhalation, rat, dust/mist/fume, 90 days) 1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) NOAEL (dermal, rat/rabbit, 90 days) 826 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline: OECD Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 0.5 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met) EZY OPEN VALVE PEN Viscosity, kinematic > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) | NOAEL (animal/female, F0/P) | 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: |
| NOAEL (oral, rat, 90 days) 750 mg/kg bodyweight Animal: rat, Animal sex: female | STOT-single exposure | : May cause respiratory irritation. |
| NOAEL (oral, rat, 90 days) 750 mg/kg bodyweight Animal: rat, Animal sex: female 2 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) N-methyl-2-pyrrolidone (872-50-4) LOAEC (inhalation, rat, dust/mist/fume, 90 days) 1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) NOAEL (dermal, rat/rabbit, 90 days) 826 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 0.5 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met) EZY OPEN VALVE PEN Viscosity, kinematic > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| NOAEC (inhalation, rat, vapour, 90 days) ≥ 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) N-methyl-2-pyrrolidone (872-50-4) LOAEC (inhalation, rat, dust/mist/fume, 90 days) NOAEL (dermal, rat/rabbit, 90 days) NOAEL (dermal, rat/rabbit, 90 days) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) A50 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met) EZY OPEN VALVE PEN Viscosity, kinematic > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | distillates, hydrotreated light (64742-47-8) | |
| N-methyl-2-pyrrolidone (872-50-4) LOAEC (inhalation, rat,dust/mist/fume, 90 days) NOAEL (dermal, rat/rabbit, 90 days) NOAEL (dermal, rat/rabbit, 90 days) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met) EZY OPEN VALVE PEN Viscosity, kinematic > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | NOAEL (oral, rat, 90 days) | 750 mg/kg bodyweight Animal: rat, Animal sex: female |
| LOAEC (inhalation, rat,dust/mist/fume, 90 days) 1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) NOAEL (dermal, rat/rabbit, 90 days) 826 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 0.5 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met) EZY OPEN VALVE PEN Viscosity, kinematic > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | NOAEC (inhalation, rat, vapour, 90 days) | |
| Day Study) NOAEL (dermal, rat/rabbit, 90 days) 826 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met) EZY OPEN VALVE PEN Viscosity, kinematic > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | N-methyl-2-pyrrolidone (872-50-4) | |
| (Repeated Dose Dermal Toxicity: 21/28-Day Study) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Aspiration hazard : Not classified (Based on available data, the classification criteria are not met) EZY OPEN VALVE PEN Viscosity, kinematic > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) | LOAEC (inhalation, rat,dust/mist/fume, 90 days) | |
| 2-methylpentane-2,4-diol (107-41-5) NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Aspiration hazard: Not classified (Based on available data, the classification criteria are not met) EZY OPEN VALVE PEN Viscosity, kinematic: > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic: 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | NOAEL (dermal, rat/rabbit, 90 days) | |
| NOAEL (oral, rat, 90 days) 450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Aspiration hazard: Not classified (Based on available data, the classification criteria are not met) EZY OPEN VALVE PEN Viscosity, kinematic: > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic: 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | NOAEC (inhalation, rat, dust/mist/fume, 90 days) | |
| Day Oral Toxicity in Rodents) Aspiration hazard: Not classified (Based on available data, the classification criteria are not met) EZY OPEN VALVE PEN Viscosity, kinematic: > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic: 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | 2-methylpentane-2,4-diol (107-41-5) | |
| Viscosity, kinematic > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | NOAEL (oral, rat, 90 days) | |
| Viscosity, kinematic > 22 mm²/s @ 40 °C distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
| distillates, hydrotreated light (64742-47-8) Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | EZY OPEN VALVE PEN | |
| Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | Viscosity, kinematic | > 22 mm²/s @ 40 °C |
| Viscosity, kinematic 1.97 mm²/s (25 °C) N-methyl-2-pyrrolidone (872-50-4) | distillates, hydrotreated light (64742-47-8) | |
| N-methyl-2-pyrrolidone (872-50-4) | | 1.97 mm²/s (25 °C) |
| | | |
| | | 1.7 mm²/s (25 °C) |

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| 2-methylpentane-2,4-diol (107-41-5) | |
|-------------------------------------|----------------|
| Viscosity, kinematic | Not determined |

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.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Not rapidly degradable

| distillates, hydrotreated light (64742-47-8) | | |
|--|--|--|
| LC50 - Fish [1] | 2.2 mg/l | |
| EC50 - Crustacea [1] | > 100 mg/l (Invertebrata) | |
| N-methyl-2-pyrrolidone (872-50-4) | | |
| LC50 - Fish [1] | > 500 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) | |
| EC50 - Crustacea [1] | 1107 mg/l (EPA 660/3 - 75/009, 96 h, Palaemonetes vulgaris, Static system, Salt water, Experimental value) | |
| EC50 - Crustacea [2] | > 1000 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value) | |
| EC50 72h - Algae [1] | 600.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) | |
| EC50 72h - Algae [2] | > 500 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) | |
| LOEC (chronic) | 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' | |
| NOEC (chronic) | 12.5 mg/l Test organisms (species): Daphnia magna Duration: '21 d' | |
| NOEC chronic crustacea | 12.5 mg/l | |
| 2-methylpentane-2,4-diol (107-41-5) | | |
| LC50 - Fish [1] | 9450 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value, Lethal) | |
| EC50 - Crustacea [1] | 5410 mg/l Test organisms (species): Daphnia magna | |
| EC50 72h - Algae [1] | > 429 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) | |
| ErC50 algae | > 429 mg/l Source: EHCA | |

12.2. Persistence and degradability

| distillates, hydrotreated light (64742-47-8) | | |
|--|--|--|
| Persistence and degradability | Readily biodegradable in water. | |
| N-methyl-2-pyrrolidone (872-50-4) | | |
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. | |
| Biochemical oxygen demand (BOD) | 1.07 g O ₂ /g substance | |
| Chemical oxygen demand (COD) | 1.56 g O ₂ /g substance | |
| ThOD | 1.9 g O ₂ /g substance | |
| BOD (% of ThOD) | 0.56 | |
| 2-methylpentane-2,4-diol (107-41-5) | | |
| Persistence and degradability | Readily biodegradable in water. | |
| Biochemical oxygen demand (BOD) | 0.02 g O ₂ /g substance | |

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| 2-methylpentane-2,4-diol (107-41-5) | |
|---|-----------------------------------|
| Chemical oxygen demand (COD) | 2.2 g O ₂ /g substance |
| ThOD | 2.3 g O ₂ /g substance |
| 12.3. Bioaccumulative potential | |
| distillates hydrotroated light (64742-47-8) | |

| I 2.3. Bioaccumulative potential | | |
|---|--|--|
| distillates, hydrotreated light (64742-47-8) | | |
| 6 – 8.2 | | |
| High potential for bioaccumulation (Log Kow > 5). | | |
| | | |
| 3 (Calculated value) | | |
| -0.46 Source: ECHA | | |
| Not bioaccumulative. | | |
| | | |
| 0.58 (QSAR, KOWWIN) | | |
| Low potential for bioaccumulation (Log Kow < 4). | | |
| | | |

12.4. Mobility in soil

| distillates, hydrotreated light (64742-47-8) | |
|--|----------------------------------|
| Surface tension | 0.026 N/m (20 °C) |
| Ecology - soil | Adsorbs into the soil. |
| N-methyl-2-pyrrolidone (872-50-4) | |
| Surface tension | 0.407 N/m |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.32 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| 2-methylpentane-2,4-diol (107-41-5) | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

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 : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID |
|----------------------------------|------------------------------|---------------|---------------|---------------|
| 14.1. UN number or ID n | 14.1. UN number or ID number | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shippin | g 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 |

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| ADR | IMDG | IATA | ADN | RID |
|-----------------------------|---------------|---------------|---------------|---------------|
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental haz | ards | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary informatio | n available | | | |

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 a substance on the REACH candidate list: 1-Methyl-2-pyrrolidone (EC 212-828-1, CAS 872-50-4)

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.

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 | | | |
|-------------------------------|---|--|--|
| Abbreviations an | 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 | | |
| 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: | | |
|-------------------------------------|---|--|
| Asp. Tox. 1 | Aspiration hazard, Category 1 | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| H304 | May be fatal if swallowed and enters airways. | |
| H315 | Causes skin irritation. | |
| H319 | Causes serious eye irritation. | |
| H335 | May cause respiratory irritation. | |

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| Full text of H- and EUH-statements: | | |
|--|---------------------------------------|--|
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | |
| STOT SE 3 Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | | |

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.