



AEROKROIL

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878
Issue date: 01/09/2021 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : AEROKROIL
Aerosol : aerosol

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Penetrant

1.2.2. Uses advised against

Restrictions on use : None known

1.3. Details of the supplier of the safety data sheet

Kano Laboratories, LLC
1000 E. Thompson Lane, Nashville, TN 37211, USA
T +1 (615) 833-4101
sales@kanolabs.com - www.kroil.com

1.4. Emergency telephone number

Emergency number : (Chemical Spills, Leaks, Fire, Exposure or Accident only): CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)

| 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 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 2 H223;H229
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

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

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Flammable aerosol. Contents under pressure.

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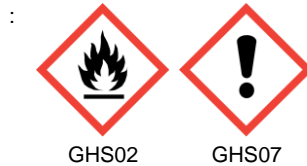
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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

Contains

: 2,6-dimethylheptan-4-one; di-isobutyl ketone, Proprietary Ingredient, 2-methylpropan-1-ol; iso-butanol

Hazard statements (CLP)

: H223 - Flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing vapours.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear eye protection, protective gloves.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER, doctor if you feel unwell.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P333+P313 - If skin irritation or rash occurs: 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.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Other hazards which do not result in classification : None known.

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|-------|---|
| Distillates (petroleum), hydrotreated heavy naphthenic substance with a Community workplace exposure limit | CAS-No.: 64742-52-5 EC-No.: 265-155-0 EC Index-No.: 649-465-00-7 | 30-50 | Asp. Tox. 1, H304 |
| Distillates (petroleum), hydrotreated light | CAS-No.: 64742-47-8 EC-No.: 265-149-8 | 20-40 | Asp. Tox. 1, H304 |
| Proprietary Ingredient | - | 5-15 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 |
| 2,6-dimethylheptan-4-one; di-isobutyl ketone | CAS-No.: 108-83-8 EC-No.: 203-620-1 EC Index-No.: 606-005-00-X | 5-15 | Flam. Liq. 3, H226 STOT SE 3, H335 |
| 4-hydroxy-4-methylpentan-2-one; diacetone alcohol | CAS-No.: 123-42-2 EC-No.: 204-626-7 EC Index-No.: 603-016-00-1 | 1-<3 | Flam. Liq. 3, H226 Eye Irrit. 2, H319 |
| 2-methylpropan-1-ol; iso-butanol | CAS-No.: 78-83-1 EC-No.: 201-148-0 EC Index-No.: 603-108-00-1 | 1-<3 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 |
| Carbon dioxide (CO2) (Propellant gas (aerosol)) | CAS-No.: 124-38-9 EC-No.: 204-696-9 | 1-5 | Press. Gas (Comp.), H280 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|---|--|-----------------------------------|
| 2,6-dimethylheptan-4-one; di-isobutyl ketone | CAS-No.: 108-83-8 EC-No.: 203-620-1 EC Index-No.: 606-005-00-X | (10 ≤C < 100) STOT SE 3, H335 |
| 4-hydroxy-4-methylpentan-2-one; diacetone alcohol | CAS-No.: 123-42-2 EC-No.: 204-626-7 EC Index-No.: 603-016-00-1 | (10 ≤C < 100) Eye Irrit. 2, H319 |

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

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 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 and soap. Take off immediately all contaminated clothing. If skin irritation or rash 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. |

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First-aid measures after ingestion : Aspiration hazard. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects : May cause drowsiness or dizziness. May cause an allergic skin reaction. Causes eye irritation. Causes skin irritation. May be fatal if swallowed and enters airways.

Inhalation : May cause respiratory irritation.

Skin : Irritation. May cause an allergic skin reaction.

Eyes : Causes serious eye irritation.

Ingestion : Aspiration hazard. May be fatal if swallowed and enters airways.

Chronic symptoms : None known.

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

If accidentally swallowed obtain immediate medical attention.

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 solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable aerosol. Contents under pressure. Keep away from open flames, hot surfaces and sources of ignition. Pressurised container: May burst if heated. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.

Hazardous decomposition products in case of fire : On combustion, forms: carbon oxides (CO and CO₂).

5.3. Advice for firefighters

Protection during firefighting : Use shielding to protect from bursting cans. Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

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. No open flames, no sparks, and no smoking. Avoid breathing mist/vapours/spray. vapours. 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

For containment : Collect spillage.

Methods for cleaning up : Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Absorb with an inert material and place in an appropriate waste disposal container.

Other information : Dispose of materials or solid residues at an authorized site.

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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 : Avoid breathing mist/vapours/spray. Avoid contact with eyes, skin and clothing. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Ensure adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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 : Do not expose to temperatures exceeding 50 °C/ 122 °F. Protect from sunlight. Store in a well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.3. Specific end use(s)

Penetrant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| 2,6-dimethylheptan-4-one; di-isobutyl ketone (108-83-8) | |
|--|--|
| United Kingdom - Occupational Exposure Limits | |
| Local name | 2,6-Dimethylheptan-4-one |
| WEL TWA (OEL TWA) [1] | 148 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 25 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Mineral oils (AHRMO) |
| IOEL TWA | 5 mg/m ³ (inhalable fraction) |
| Remark | (Year of adoption 2010) |
| Regulatory reference | SCOEL Recommendations |
| 4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2) | |
| United Kingdom - Occupational Exposure Limits | |
| Local name | 4-Hydroxy-4-methylpentan-2-one |
| WEL TWA (OEL TWA) [1] | 241 mg/m ³ |

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| 4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2) | |
|---|---------------------------------------|
| WEL TWA (OEL TWA) [2] | 50 ppm |
| WEL STEL (OEL STEL) | 362 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 75 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
| United Kingdom - Occupational Exposure Limits | |
| Local name | 2-Methylpropan-1-ol |
| WEL TWA (OEL TWA) [1] | 154 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 50 ppm |
| WEL STEL (OEL STEL) | 231 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 75 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Carbon dioxide (CO₂) (124-38-9) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Carbon dioxide |
| IOEL TWA | 9000 mg/m ³ |
| IOEL TWA [ppm] | 5000 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC |
| United Kingdom - Occupational Exposure Limits | |
| Local name | Carbon dioxide |
| WEL TWA (OEL TWA) [1] | 9150 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 5000 ppm |
| WEL STEL (OEL STEL) | 27400 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 15000 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:

Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

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8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

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 | : light red. |
| Appearance | : Aerosol spray can. |
| Odour | : Solvents. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Explosive limits | : Not available |
| Lower explosive limit (LEL) | : 0.6 vol % |
| Upper explosive limit (UEL) | : 10.9 vol % |
| Flash point | : 55.5 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : < 20.5 mm ² /s |
| Solubility | : Insoluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50 °C | : Not available |
| Density | : Not available |
| Relative density | : 0.8596 |
| Relative vapour density at 20 °C | : Not available |
| Particle size | : Not applicable |
| Particle size distribution | : Not applicable |
| Particle shape | : Not applicable |
| Particle aspect ratio | : Not applicable |
| Particle aggregation state | : Not applicable |

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Particle agglomeration state : Not applicable
Particle specific surface area : Not applicable
Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 50

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Acids. Strong bases. Strong reducing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Based on available data, the classification criteria are not met
Acute toxicity (dermal) : Based on available data, the classification criteria are not met
Acute toxicity (inhalation) : Based on available data, the classification criteria are not met

| 2,6-dimethylheptan-4-one; di-isobutyl ketone (108-83-8) | |
|--|--|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | > 14.5 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) | |
| LD50 oral rat | > 5000 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 5 mg/l |

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| Proprietary Ingredient | |
|--|--|
| LD50 oral rat | 3200 mg/kg |
| LD50 dermal rabbit | > 5000 ml/kg |
| 4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2) | |
| LD50 oral rat | 3002 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2738 - 3290 |
| LD50 dermal rat | > 1875 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
| LD50 oral rat | 2830 – 3350 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 18.2 mg/l |
| Distillates (petroleum), hydrotreated light (64742-47-8) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 6.8 mg/l/4h |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Based on available data, the classification criteria are not met |
| Carcinogenicity | : Based on available data, the classification criteria are not met |
| Reproductive toxicity | : Based on available data, the classification criteria are not met |
| Distillates (petroleum), hydrotreated light (64742-47-8) | |
| NOAEL (animal/male, F0/P) | ≥ 3000 mg/kg bodyweight Animal: rat, Animal sex: male |
| STOT-single exposure | : May cause respiratory irritation. |
| 2,6-dimethylheptan-4-one; di-isobutyl ketone (108-83-8) | |
| STOT-single exposure | May cause respiratory irritation. |
| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
| STOT-single exposure | May cause respiratory irritation. May cause drowsiness or dizziness. |
| STOT-repeated exposure | : Based on available data, the classification criteria are not met |
| 2,6-dimethylheptan-4-one; di-isobutyl ketone (108-83-8) | |
| NOAEL (oral, rat, 90 days) | 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| NOAEC (inhalation, rat, vapour, 90 days) | 5.74 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) |
| Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) | |
| 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) |

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| 4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2) | |
|---|--|
| LOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| NOAEC (inhalation, rat, vapour, 90 days) | ≥ 4.106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
| NOAEL (oral, rat, 90 days) | > 1450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard : Not classified

| AEROKROIL | |
|----------------------|---------------------------|
| Aerosol | aerosol |
| Viscosity, kinematic | < 20.5 mm ² /s |
| Hydrocarbon | Yes |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : None known

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Based on available data, the classification criteria are not met

Hazardous to the aquatic environment, long-term (chronic) : Based on available data, the classification criteria are not met

| 2,6-dimethylheptan-4-one; di-isobutyl ketone (108-83-8) | |
|---|--|
| LC50 - Fish [1] | 30 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>) |
| EC50 - Crustacea [1] | 37.2 mg/l Test organisms (species): <i>Daphnia magna</i> |
| Proprietary Ingredient | |
| LC50 - Fish [1] | 18.35 mg/l |
| EC50 - Crustacea [1] | 17 mg/l |
| 4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2) | |
| LC50 - Fish [1] | > 100 mg/l Test organisms (species): <i>Oryzias latipes</i> |
| EC50 - Crustacea [1] | > 1000 mg/l Test organisms (species): <i>Daphnia magna</i> |
| EC50 72h - Algae [1] | > 1000 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>) |

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| 4-hydroxy-4-methylpentan-2-one; diacetone alcohol (123-42-2) | |
|---|---|
| LOEC (chronic) | > 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| 2-methylpropan-1-ol; iso-butanol (78-83-1) | |
| LC50 - Fish [1] | 1430 mg/l |
| EC50 - Crustacea [1] | 1100 mg/l |
| EC50 72h - Algae [1] | 1799 mg/l |
| NOEC (chronic) | 20 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| Distallates (petroleum), hydrotreated light (64742-47-8) | |
| EC50 - Crustacea [1] | > 1000 mg/l |

12.2. Persistence and degradability

| Distallates (petroleum), hydrotreated light (64742-47-8) | |
|---|----------------------|
| Biodegradation | 85 % OECD 301F (28d) |

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : None known

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.
Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information






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

| ADR | IMDG | IATA | ADN | RID |
|-------------------------------------|---------|---------|---------|---------|
| 14.1. UN number or ID number | | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 | UN 1950 |

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| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| 14.2. UN proper shipping name | | | | |
| AEROSOLS | AEROSOLS | Aerosols, flammable | AEROSOLS | AEROSOLS |
| Transport document description | | | | |
| UN 1950 AEROSOLS, 2.1, (D) | UN 1950 AEROSOLS, 2.1 | UN 1950 Aerosols, flammable, 2.1 | UN 1950 AEROSOLS, 2.1 | UN 1950 AEROSOLS, 2.1 |
| 14.3. Transport hazard class(es) | | | | |
| 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F
Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P207
Special packing provisions (ADR) : PP87, RR6, L2
Mixed packing provisions (ADR) : MP9
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V14
Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV12
Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG) : P207, LP200
Special packing provisions (IMDG) : PP87, L2
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203

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| | |
|--|--------------------|
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA) | : 203 |
| PCA max net quantity (IATA) | : 75kg |
| CAO packing instructions (IATA) | : 203 |
| CAO max net quantity (IATA) | : 150kg |
| Special provisions (IATA) | : A145, A167, A802 |
| ERG code (IATA) | : 10L |

Inland waterway transport

| | |
|-----------------------------------|----------------------|
| Classification code (ADN) | : 5F |
| Special provisions (ADN) | : 190, 327, 344, 625 |
| Limited quantities (ADN) | : 1 L |
| Excepted quantities (ADN) | : E0 |
| Equipment required (ADN) | : PP, EX, A |
| Ventilation (ADN) | : VE01, VE04 |
| Number of blue cones/lights (ADN) | : 1 |

Rail transport

| | |
|---|----------------------|
| Classification code (RID) | : 5F |
| Special provisions (RID) | : 190, 327, 344, 625 |
| Limited quantities (RID) | : 1L |
| Excepted quantities (RID) | : E0 |
| Packing instructions (RID) | : P207, LP200 |
| Special packing provisions (RID) | : PP87, RR6, L2 |
| Mixed packing provisions (RID) | : MP9 |
| Transport category (RID) | : 2 |
| Special provisions for carriage – Packages (RID) | : W14 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW9, CW12 |
| Colis express (express parcels) (RID) | : CE2 |
| Hazard identification number (RID) | : 23 |

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

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

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.

15.1.2. National regulations

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

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Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| 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: | |
|-------------------------------------|--|
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| 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 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H223 | Flammable aerosol. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Press. Gas (Comp.) | Gases under pressure : Compressed gas |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|-----------|-----------------------|
| Aerosol 2 | H223;H229 | On basis of test data |
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3 | H335 | Calculation method |

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