

Version: 27 / DK

Replaces Version: 26 / DK

Revision: 15.04.2020 Print date: 09.06.20

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Proterra Oil GE 11025-2001

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

Use of the substance/preparation

Surface treatment of wood and other materials

1.3. Details of the supplier of the safety data sheet

Manufacturer

 Hesse GmbH & Co. KG

 Warendorfer Strasse 21

 59075 Hamm

 Telephone no.
 +49 (0) 2381 963-00

 Fax no.
 +49 (0) 2381 963-849

 E-mail address
 ps@hesse-lignal.de

1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Supplemental information

EUH210 Safety data sheet available on request.

Further supplemental information

Cleaning cloth soaked with the product can self ignite during packing up, therefore dry the cloth on a line or through spreading and dispose of after dry up.

Young persons under 18 years may not work with this product.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB) (if not listed in Section 3).

3. Composition/information on ingredients

Hazardous ingredients

2-ethylhexanoic acid zirconium salt

| CAS No. | 22464-99-9 | | | |
|------------------------|--------------------|---------|---|---|
| EINECS no. | 245-018-1 | | | |
| Registration no. | 01-2119979088 | -21 | | |
| Concentration | >= 1 | < | 3 | % |
| Classification (Regula | ation (EC) No. 127 | 2/2008) | | |



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Note

For explanation of abbreviations see section 16. This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) (if not listed in Section 3).

4. First aid measures

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4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. Get medical advice/attention if you feel unwell. First aider: Pay attention to self-protection! Remove affected person from danger area, lay him down.

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Keep warm, calm and covered up. In all cases of doubt, or when symptoms persist, seek medical attention.

After skin contact

Wash off immediately with soap and water. Do NOT use solvents or thinners. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. Take medical treatment.

After ingestion

Do not induce vomiting. Take medical treatment.

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

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.

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

Hints for the physician / treatment

Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist

Non suitable 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 will produce dense black smoke. In a fire, hazardous decomposition products may be produced. Exposure to decomposition products may cause a health hazard. Vapours can form an explosive mixture with air.

5.3. Advice for firefighters



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Special protective equipment for fire-fighting

In case of combustion evolution of dangerous gases possible. Use self-contained breathing apparatus.

Other information

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water. Standard procedure for chemical fires.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Do not inhale aerosols.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not allow to enter soil, waterways or waste water canal. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Do NOT use solvents or thinners. Send in suitable containers for recovery or disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep container tightly closed and dry in a cool, well-ventilated place. Use only with adequate ventilation/personal protection. Ensure adequate ventilation. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Do no eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Vapours are heavier than air and may spread along floors. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Take measures to prevent the build up of electrostatic charge. Wear shoes with conductive soles. No sparking tools should be used. Fight fire with normal precautions from a reasonable distance. Do not process in the same cabin together with highly flammable material (e.g. CN lacquer) => fire hazard through self ignition! Cleaning cloth soaked with the product can self ignite during packing up, therefore dry the cloth on a line or through spreading and dispose of after dry up.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor. Keep only in the original container in a cool, well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.



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| | | |
| Hints on storage assemb | ly | |
| Store away from oxidising | agents, from strongly alkaline and stro | ngly acid materials. |
| Storage classes | | |
| Storage class according to | TRGS 510 10 Flam | mable liquids |
| Further information on st | orage conditions | |
| | rom heat and direct sunlight. Keep aw | av from sources of ignition - No |
| | nce with the particular national regulation | |
| 7.3. Specific end use(s) | | |
| See exposure scenario, if a | available. | |
| 8. Exposure controls/person | al protection | |
| | | |
| 8.1. Control parameters | | |
| Other information | | |
| - | | |
| Derived No/Minimal Effec | · · · · · | |
| 2-ethylhexanoic acid zirco | | |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action Concentration | Systemic effects | m g /m3 |
| Concentration | 32,97 | mg/m³ |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Workers (industrial) | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |
| Concentration | 6,49 | mg/kg/d |
| | | 5 5 |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | Oral exposure | |
| Mode of action | Systemic effects | |
| Concentration | 4,51 | mg/kg/d |
| Type of value | Derived No Effect Level (DNEL) | |
| Reference group | Consumer | |
| Duration of exposure | Long-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 8,13 | mg/m³ |
| | Derived No Effect Level (DNEL) | |
| Type of value | Derived No Effect Level (DNEL) Consumer | |
| Reference group | | |
| Duration of exposure | Long-term | |
| Route of exposure | Dermal exposure | |
| Mode of action | Systemic effects | |



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| | | |
| Concentration | 3,25 | mg/kg/d |
| Predicted No Effect Concent | ration (PNEC) | |
| 2-ethylhexanoic acid zirconiun | n salt | |
| Type of value | PNEC | |
| Туре | Freshwater | |
| Concentration | 0,36 | mg/l |
| Type of value | PNEC | |
| Туре | Saltwater | |
| Concentration | 0,036 | mg/l |
| Type of value | PNEC | |
| Туре | Fresh water sediment | |
| Concentration | 6,37 | mg/kg |
| Type of value | PNEC | |
| Туре | saltwater sediment | |
| Concentration | 0,637 | mg/kg |
| Type of value | PNEC | |
| Туре | Soil | |
| Concentration | 1,06 | mg/kg |
| Type of value | PNEC | |
| Туре | Sewage treatment plant (STP) | |
| Concentration | 71,7 | mg/kg |

8.2. Exposure controls

Exposure controls

Users are advised to consider national Occupational Exposure Limits or other equivalent values. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol. Recommended Filter type: Respiratory protection mask with combination filter A/P2

Hand protection

Glove material

| Appropriate Material | Nitrile rubber | | |
|----------------------|----------------|-----|-----|
| Material thickness | >= | 0,4 | mm |
| Breakthrough time | >= | 480 | min |

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.



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Gloves should be replaced regularly and if there is any sign of damage to the glove material. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Eye protection

Wear eye glasses with side protection according to EN 166.

Body protection

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Form | liquid | | | |
|-----------------------------------|---------|----------|----|------|
| Colour | yellow | | | |
| Odour | charac | teristic | | |
| Odour threshold | | | | |
| Remarks | not det | ermined | | |
| pH value | | | | |
| Remarks | not det | ermined | | |
| Melting point | | | | |
| Remarks | not det | ermined | | |
| Freezing point | | | | |
| Remarks | not det | ermined | | |
| Initial boiling point and boiling | g range | • | | |
| Remarks | not det | ermined | | |
| Flash point | | | | |
| Value | > | 60 | | °C |
| Evaporation rate | | | | |
| Remarks | not det | ermined | | |
| Flammability (solid, gas) | | | | |
| not determined | | | | |
| Upper/lower flammability or ex | xplosiv | e limits | | |
| Remarks | not det | ermined | | |
| Vapour pressure | | | | |
| Remarks | not det | ermined | | |
| Vapour density | | | | |
| Remarks | not det | ermined | | |
| Density | | | | |
| Value | appr. | 0,949 | _ | kg/l |
| Temperature | | 20 | °C | |
| Solubility in water | | | | |
| Remarks | not det | ermined | | |
| Solubility(ies) | | | | |
| Remarks | not det | ermined | | |
| | | | | |



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| Partition coefficient: n-octano | l/water | | | | |
|--|----------|------------|-----------|--------------|---------|
| Remarks | not det | ermined | | | |
| Ignition temperature | | | | | |
| Remarks | not det | ermined | | | |
| Decomposition temperature | | | | | |
| Remarks | not det | ermined | | | |
| Viscosity | | | | | |
| kinematic | | | | | |
| Value | | 26 | | | mm²/s |
| Temperature | | 40 | °C | | |
| Efflux time | | | | | |
| Value | | 38 | to | 46 | S |
| Temperature | | 20 | °C | | |
| Method | DIN EN | I ISO 2431 | - 4 mm | | |
| Explosive properties | | | | | |
| evaluation | not det | ermined | | | |
| Oxidising properties | | | | | |
| Remarks | not det | ermined | | | |
| 9.2. Other information | | | | | |
| Non-volatile content | | | | | |
| Value | | 98,5 | | | % |
| Method | calcula | ted value | | | |
| Other information | | | | | |
| This information is not available. | | | | | |
| 10. Stability and reactivity | | | | | |
| 10.1. Reactivity Stable under recommended stor | rage and | handling o | conditior | is (see sect | ion 7). |

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

10.5. Incompatible materials

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NOx), dense black smoke, No decomposition if used as prescribed.

11. Toxicological information



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11.1. Information on toxicological effects Acute oral toxicity Method Calculation method (Regulation (EC) No. 1272/2008) Remarks Based on available data, the classification criteria are not met. Acute dermal toxicity Method Method Calculation method (Regulation (EC) No. 1272/2008) Based on available data, the classification criteria are not met. Acute dermal toxicity Calculation method (Regulation (EC) No. 1272/2008)

| Remarks | Based on available data, the classification criteria are not met. | | | | |
|---|---|--|--|--|--|
| Acute inhalational toxicity | | | | | |
| Method Remarks | Calculation method (Regulation (EC) No. 1272/2008) Based on available data, the classification criteria are not met. | | | | |
| Skin corrosion/irritation | | | | | |
| Method Remarks | Calculation method (Regulation (EC) No. 1272/2008) Based on available data, the classification criteria are not met. | | | | |
| Serious eye damage/irritation | on | | | | |
| Method Remarks | Calculation method (Regulation (EC) No. 1272/2008) Based on available data, the classification criteria are not met. | | | | |
| Sensitization | | | | | |
| Method Remarks | Calculation method (Regulation (EC) No. 1272/2008) Based on available data, the classification criteria are not met. | | | | |
| Mutagenicity | | | | | |
| Method Remarks | Calculation method (Regulation (EC) No. 1272/2008) Based on available data, the classification criteria are not met. | | | | |
| Reproductive toxicity | | | | | |
| Method Remarks | Calculation method (Regulation (EC) No. 1272/2008) Based on available data, the classification criteria are not met. | | | | |
| Reproduction toxicity (Com | iponents) | | | | |
| 2-ethylhexanoic acid zirconiu evaluation | Im salt Toxic to Reproduction Category 2 | | | | |
| Carcinogenicity | | | | | |
| Method Remarks | Calculation method (Regulation (EC) No. 1272/2008) Based on available data, the classification criteria are not met. | | | | |
| Specific Target Organ Toxicity (STOT) | | | | | |
| Single exposure Method Remarks | Calculation method (Regulation (EC) No. 1272/2008) Based on available data, the classification criteria are not met. | | | | |
| Repeated exposure Remarks | Based on available data, the classification criteria are not met. | | | | |

Aspiration hazard

Based on available data, the classification criteria are not met.

Other information

No toxicological data are available.

12. Ecological information



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12.1. Toxicity

General information

For this subsection there is no ecotoxicological data available on the product as such.

12.2. Persistence and degradability

General information

For this subsection there is no ecotoxicological data available on the product as such.

12.3. Bioaccumulative potential

General information

For this subsection there is no ecotoxicological data available on the product as such.

Partition coefficient: n-octanol/water

Remarks

not determined

12.4. Mobility in soil

General information

For this subsection there is no ecotoxicological data available on the product as such.

Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

General information

For this subsection there is no ecotoxicological data available on the product as such.

12.6. Other adverse effects

General information / ecology

For this subsection there is no ecotoxicological data available on the product as such.

13. Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

| EWC waste code | 080111 - waste paint and varnish containing organic solvents or other dangerous substances |
|---|--|
| EWC waste code | 200127 - paint, inks, adhesives and resins containing dangerous substances |
| Where possible recycling is preferred to d | 0 |
| Do not allow to enter drains or waterways | |
| Where possible recycling is preferred to c Do not allow to enter drains or waterways | • |
| modified product | |
| EWC waste code | 080113 - sludges from paint or varnish containing organic solvents or other dangerous substances |
| EWC waste code | 080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances |
| Dried residues | |
| EWC waste code | 080112 - waste lacquers and waste paint except those falling under 080111 |



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Disposal recommendations for packaging

EWC waste code

150110 - packaging containing residues of or contaminated by dangerous substances

Completely emptied packagings can be given for recycling. Completely emptied packagings can be given for recycling.

14. Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|-----------------|--|--|--|
| 14.1. UN number | Not classified as dangerous in the meaning of transport regulations. | Not classified as dangerous in the meaning of sea and air transport regulations. | Not a dangerous substance as defined in the above regulations. |

15. Regulatory information

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

VOC

| VOC (EU) | 1,4 | % | 13 | g/l |
|----------|------------|---|----|-----|
| MAL-Code | | | | |
| MAL-Code | 0-1 | | | |
| MAL | 78,42 m³/l | | | |

Other information

All components are contained in the TSCA inventory or exempted.

15.2. Chemical safety assessment

For this substance / mixture a chemical safety assessment was not carried out.

16. Other information

Hazard statements listed in Chapter 3

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Suspected of damaging the unborn child.

CLP categories listed in Chapter 3

Repr. 2 Reproductive toxicity, Category 2

Abbreviations

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning theInternational Transport of Dangerous Goods by Rail) IMDG - International Maritime Code for Dangerous Goods IATA - International Air Transport Association IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS - Globally Harmonized System of Classification and Labelling of Chemicals EINECS - European Inventory of Existing Commercial Chemical Substances CAS - Chemical Abstracts Service (division of the American Chemical Society) GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)



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LOAEL - Lowest Observed Adverse Effect Level LOEL - Lowest Observed Effect Level NOAEL - No Observed Adverse Effect Level NOEC - No Observed Effect Concentration NOEL - No Observed Effect Level OECD - Organisation for Econpmic Cooperation and Development VOC - Volatile Organic Compounds Changes since the last version are highlighted in the margin (***). This version replaces all previous versions. This safety datasheet only contains information relating to safety and does not replace any product information or product specification. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.