SECTION 1 Identification

1.1. Product identifier

|  |  |  |
| --- | --- | --- |
| Product form | : | Mixture |
| Product name  Product code | : | L.O.E Laundry Odor Eliminator Concentrate  LOE, LOE-G |

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

|  |  |  |
| --- | --- | --- |
| Use of the substance/mixture | : | Deodorizer. |

1.4. Supplier's details

|  |
| --- |
| Manufacturer  Thornell Corporation 100 James Street P.O. Box 363 Smithville, MO, 64089 T 888-873-3442 [www.odorcide.com](http://www.odorcide.com) |

1.5. Emergency phone number

|  |  |  |
| --- | --- | --- |
| Emergency number | : | 888-873-3442 |

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS classification

|  |  |  |  |
| --- | --- | --- | --- |
| Serious eye damage/eye irritation, Category 2A | | | |
|  |  |  |  |

2.2. Label elements

GHS labelling

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Hazard pictograms (GHS) | : | GHS07 |  |  |  |  |  |
| Signal word (GHS) | : | Warning | | | | | |
| Hazard statements (GHS) | : | Causes serious eye irritation | | | | | |
| Precautionary statements (GHS) | : | If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Wash hands, forearms and face thoroughly after handling. Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection. IF IN EYES: 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 or attention. | | | | | |

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

|  |
| --- |
| Not applicable |

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | %Weight |
| --- | --- | --- | --- |
| Alcohols, C12-16, ethoxylated | Alcohols, C12-16, ethoxylated  Alcohols, C12-16 poly(1-6) ethoxylated / C12-16 Pareth-9 / Ethoxylated C12-16 alcohols / C12-16 Pareth-7 / C12-16 Pareth-5 / .alpha.-Alkyl(C12-16)-.omega.-hydroxypoly(oxyethylene) / Polyethyleneglycol ethers of C12-16 alcohols / C12-16 PARETH-5 / C12-16 PARETH-7 / Ethoxylated alcohols(C12-16) / C12-16 Pareth / C12-16 ALKETH-5 / Alcohol ethoxylates (C12-16) / C12-16 PARETH-9 | CAS-No.: 68551-12-2 | 1 - <3 |
| Isopropyl alcohol | Isopropyl alcohol  2-Hydroxypropane / 2-Propyl alcohol / 2-Propanol / Isopropanol / Propan-2-ol / ISOPROPYL ALCOHOL / Propanol, 2- / Isopropylic alcohol | CAS-No.: 67-63-0 | 1 - <3 |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

|  |  |  |
| --- | --- | --- |
| First-aid measures after inhalation | : | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. |
| First-aid measures after skin contact | : | If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists. |
| First-aid measures after eye contact | : | IF IN EYES: 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 | : | Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. |

4.2. Most important symptoms/effects, acute and delayed

|  |  |  |
| --- | --- | --- |
| Symptoms/effects after inhalation | : | May cause irritation to the respiratory tract. |
| Symptoms/effects after skin contact | : | May cause skin irritation. Repeated exposure may cause skin dryness or cracking. |
| Symptoms/effects after eye contact | : | Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/effects after ingestion | : | May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

4.3. Indication of immediate medical attention and special treatment needed, if necessary

|  |  |  |
| --- | --- | --- |
| Other medical advice or treatment | : | Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

|  |  |  |
| --- | --- | --- |
| Suitable extinguishing media | : | Use extinguishing media appropriate for surrounding fire. |
| Unsuitable extinguishing media | : | Do not use water jet. |

5.2. Specific hazards arising from the chemical

|  |  |  |
| --- | --- | --- |
| Fire hazard | : | Products of combustion may include, and are not limited to: oxides of carbon. Irritating vapours. |

5.3. Special protective equipment and precautions for fire-fighters

|  |  |  |
| --- | --- | --- |
| Protection during firefighting | : | Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). |

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

|  |  |  |
| --- | --- | --- |
| General measures | : | Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. |

For non-emergency personnel

No additional information available

For emergency responders

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Environmental precautions | : | Prevent entry to sewers and public waters. |

6.2. Methods and materials for containment and cleaning up

|  |  |  |
| --- | --- | --- |
| For containment | : | Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. |
| Methods for cleaning up | : | Sweep or shovel spills into appropriate container for disposal. Provide ventilation. |
| |  |  |  | | --- | --- | --- | |  |  |  | |  |  |  | |  |  |
| For further information refer to section 8: "Exposure controls/personal protection" | | |

SECTION 7 Handling and storage

7.1. Precautions for safe handling

|  |  |  |
| --- | --- | --- |
| Precautions for safe handling | : | Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. |
| Hygiene measures | : | Wash contaminated clothing before reuse. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including incompatibilities

|  |  |  |
| --- | --- | --- |
| Storage conditions | : | Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. |
| Specific end uses | : | Deodorizer. |

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

| Isopropyl alcohol (67-63-0) | |
| --- | --- |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | 2-Propanol |
| ACGIH OEL TWA | 200 ppm |
| ACGIH OEL STEL | 400 ppm |
| Remark (ACGIH) | TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| Regulatory reference | ACGIH 2023 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | 2-PROPANOL |
| BEI | 40 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift at end of workweek (background, nonspecific) |
| Regulatory reference | ACGIH 2023 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Isopropyl alcohol |
| OSHA PEL TWA | 980 mg/m³ |
| 400 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| USA - IDLH - Occupational Exposure Limits | |
| IDLH | 2000 ppm (10% LEL) |
| USA - NIOSH - Occupational Exposure Limits | |
| NIOSH REL TWA | 980 mg/m³ |
| 400 ppm |
| NIOSH REL STEL | 1225 mg/m³ |
| 500 ppm |

8.2. Appropriate engineering controls

|  |  |  |
| --- | --- | --- |
| Appropriate engineering controls | : | Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers. |
| Environmental exposure controls | : | Avoid release to the environment. |

8.3. Individual protection measures, such as personal protective equipment

|  |
| --- |
| Hand protection: |
| Wear suitable gloves. Consult glove manufacturer's product information on material suitability and material thickness. |

|  |
| --- |
| Eye protection: |
| Wear eye/face protection |

|  |
| --- |
| Skin and body protection: |
| Wear suitable protective clothing |

|  |
| --- |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment. |

|  |
| --- |
| Other information: |
| Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. |

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

|  |  |  |
| --- | --- | --- |
| Physical state | : | Liquid |
| Colour | : | No data available |
| Odour | : | No data available |
| Odour threshold | : | No data available |
| pH | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Flammability (solid, gas) | : | Not flammable. |
| Vapour pressure | : | No data available |
| Relative vapour density at 20°C/ 68 °F | : | No data available |
| Relative density | : | No data available |
| Solubility | : | No data available |
| Partition coefficient n-octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Explosive limits | : | No data available |
| Particle characteristics | : | No data available |

| Isopropyl alcohol | |
| --- | --- |
| Boiling point | 82.3 °C (at 1 atm) |
| Flash point | 12 °C |
| Auto-ignition temperature | 399 °C |
| Vapour pressure | 42 hPa (at 20 °C) |

9.2. Data relevant with regard to physical hazard classes (supplemental)

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

Extremely high or low temperatures.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Irritating vapours.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

|  |  |  |
| --- | --- | --- |
| Acute toxicity (oral) | : | Not classified. |
| Acute toxicity (dermal) | : | Not classified. |
| Acute toxicity (inhalation) | : | Not classified. |

| Isopropyl alcohol (67-63-0) | |
| --- | --- |
| LD50 oral rat | 5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | 4059 mg/kg (Source: JAPAN\_GHS) |
| LC50 inhalation rat | > 10000 ppm (Exposure time: 6 h Source: ECHA\_API) |

|  |  |  |
| --- | --- | --- |
| Skin corrosion/irritation | : | Not classified. |
| Serious eye damage/irritation | : | Causes serious eye irritation. |
| Respiratory or skin sensitisation | : | Not classified. |

|  |  |  |
| --- | --- | --- |
| Germ cell mutagenicity | : | Not classified. |
| Carcinogenicity | : | Not classified. |

| Isopropyl alcohol (67-63-0) | |
| --- | --- |
| IARC group | 3 - Not classifiable |

|  |  |  |
| --- | --- | --- |
| Reproductive toxicity | : | Not classified. |

|  |  |  |
| --- | --- | --- |
| STOT-single exposure | : | Not classified. |

| Isopropyl alcohol (67-63-0) | |
| --- | --- |
| STOT-single exposure | May cause drowsiness or dizziness. |

|  |  |  |
| --- | --- | --- |
| STOT-repeated exposure | : | Not classified. |

|  |  |  |
| --- | --- | --- |
| Aspiration hazard | : | Not classified. |

| L.O.E Laundry Odor Eliminator Concentrate | |
| --- | --- |
| Viscosity, kinematic | No data available |

| Alcohols, C12-16, ethoxylated (68551-12-2) | |
| --- | --- |
| Viscosity, kinematic | No data available |

| Isopropyl alcohol (67-63-0) | |
| --- | --- |
| Viscosity, kinematic | No data available |

|  |  |  |
| --- | --- | --- |
| Symptoms/effects after inhalation | : | May cause irritation to the respiratory tract. |
| Symptoms/effects after skin contact | : | May cause skin irritation. Repeated exposure may cause skin dryness or cracking. |
| Symptoms/effects after eye contact | : | Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/effects after ingestion | : | May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| Other information | : | Likely routes of exposure: ingestion, inhalation, skin and eye. |

SECTION 12 Ecological information

12.1. Ecotoxicity

|  |  |  |
| --- | --- | --- |
| Ecology - general | : | May cause long-term adverse effects in the aquatic environment. |
| Hazardous to the aquatic environment, short–term (acute) | : | Not classified. |
| Hazardous to the aquatic environment, long–term (chronic) | : | Not classified. |

| Isopropyl alcohol (67-63-0) | |
| --- | --- |
| LC50 - Fish [1] | 10000 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 - Fish [2] | 9640 mg/l Test organisms (species): Pimephales promelas |
| EC50 72h - Algae [1] | > 1000 mg/l (Species: Desmodesmus subspicatus) |
| EC50 96h - Algae [1] | > 1000 mg/l (Species: Desmodesmus subspicatus) |

12.2. Persistence and degradability

| L.O.E Laundry Odor Eliminator Concentrate | |
| --- | --- |
| Persistence and degradability | Not established. |

| Alcohols, C12-16, ethoxylated (68551-12-2) | |
| --- | --- |
| Persistence and degradability | Rapidly degradable |

| Isopropyl alcohol (67-63-0) | |
| --- | --- |
| Persistence and degradability | Rapidly degradable |

12.3. Bioaccumulative potential

| L.O.E Laundry Odor Eliminator Concentrate | |
| --- | --- |
| Bioaccumulative potential | Not established. |

| Isopropyl alcohol (67-63-0) | |
| --- | --- |
| Partition coefficient n-octanol/water | 0.05 (at 25 °C) |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

|  |  |  |
| --- | --- | --- |
| Ozone | : | Not classified. |
| Fluorinated greenhouse gases | : | No |

|  |  |  |
| --- | --- | --- |
| Other information | : | No other effects known. |

SECTION 13 Disposal considerations

|  |  |  |
| --- | --- | --- |
| Product/Packaging disposal recommendations | : | Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

SECTION 14 Transport information

In accordance with DOT / TDG

14.1. UN Number

|  |  |  |
| --- | --- | --- |
| UN-No. (DOT) | : | Not regulated |
| UN-No. (TDG) | : | Not regulated |

14.2. UN Proper Shipping Name

|  |  |  |
| --- | --- | --- |
| Proper Shipping Name (DOT) | : | Not regulated |
| Proper Shipping Name (TDG) | : | Not regulated |

14.3. Transport hazard class(es)

|  |  |  |
| --- | --- | --- |
| DOT | | |
| Transport hazard class(es) (DOT) | : | Not regulated |

|  |  |  |
| --- | --- | --- |
| TDG | | |
| Transport hazard class(es) (TDG) | : | Not regulated |

14.4. Packing group

|  |  |  |
| --- | --- | --- |
| Packing group (DOT) | : | Not regulated |
| Packing group (TDG) | : | Not regulated |

14.5. Environmental hazards

|  |  |  |
| --- | --- | --- |
| Other information | : | No supplementary information available. |

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

|  |
| --- |
| DOT |
| Not regulated |

|  |
| --- |
| TDG |
| Not regulated |

SECTION 15 Regulatory information

15.1. Federal regulations

|  |  |
| --- | --- |
| All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for: | |
| BTC 776 | CAS-No. 53516-76-0 |

|  |  |
| --- | --- |
| All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories except for: | |
| BTC 776 | CAS-No. 53516-76-0 |

15.2. International regulations

No additional information available

15.3. State regulations

|  |
| --- |
| California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm |

SECTION 16 Other Information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

|  |  |  |
| --- | --- | --- |
| Revision date | : | 2025-04-09 |
| Issue date | : | 2025-04-09 |
| Other information | : | None. |
| Prepared by | : | *A black text on a white background  Description automatically generated*Nexreg Compliance Inc.  [www.Nexreg.com](http://www.Nexreg.com) |

SDS HazCom 2024 - WHMIS 2022 (Nexreg) 2025

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