



Safety Data Sheet

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

1.1 Product identifier.

Product identifier. 123380
Product name. Heavy Duty Soil Lifter
Pure substance/mixture. No Information

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

Recommended Use. Professional Cleaning Agent
Uses advised against. Professional Use Only

1.3 Details of the supplier of the safety data sheet.

Supplier. Legend Brands
15180 Josh Wilson Road
Burlington, WA 98233
E-Mail: sds@legendbrands.com
800-932-3030

Legend Brands Europe
22 Plover Close Interchange Park
Newport Pagnell MK069PS UK
+44 (0) 1908 611211

1.4 Emergency telephone number. INFOTRAC 1-800-535-5053 (North America)
+1-352-323-3500 (International)

| | |
|-----------------------|--|
| Europe | 112 |
| Bulgaria | +359 2 9154 409 |
| Cyprus | +357 22405609 |
| Croatia | +385 1 234 8342 |
| Czech Republic | +420 267 225 243 |
| Estonia | 112 |
| Greece | +30 210 64 79 407 |
| Hungary | +36 80 20 11 99 |
| Latvia | +371 67032028 |
| Lithuania | +3705 212 6094 |
| Malta | 112 |
| Poland | Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54 +48 22 619 08 97 |
| Romania | +40 21 207 11 06 |
| Slovenia | +386 1 478 6051 |
| Slovakia | +421 2 54 77 4 166 |

2. Hazards Identification

2.1 Classification of the substance or mixture. (Regulation (EC) No 1272/2008)

Acute Toxicity, Oral, category 4
Hazardous to the aquatic environment, Chronic, category 2
Aspiration Hazard, category 1
Eye Irritation, category 2A
Flammable Liquid, category 3
Skin Irritation, category 2
Skin Sensitizer, category 1

2.2 Label elements.

**Signal Word**

Danger

Hazardous components which must be listed on the label

Ethylene glycol monobutyl ether, D-limonene, Naphtha, petroleum, hydrotreated heavy

Possible Hazards

13.8% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity

HAZARD STATEMENTS

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H319 | Causes serious eye irritation. |
| H226 | Flammable liquid and vapor. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |

LABEL PRECAUTIONARY STATEMENTS

| | |
|-----------|--|
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |

PRECAUTIONARY STATEMENTS

| | |
|----------------|--|
| P210 | Keep away from heat. - No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/Bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ ventilating/ lighting/ equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. |
| P264 | Wash face, hands and any exposed skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321 | Specific treatment (see supplemental first aid instructions on this label). |
| P330 | Rinse mouth. |
| P331 | Do NOT induce vomiting. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P370+P378 | In case of fire: Use carbon dioxide to extinguish. |
| P391 | Collect spillage. |
| P405 | Store locked up. |
| P501 | Dispose of contents/ container to an approved waste disposal plant. |

2.3 Other hazards

EMERGENCY OVERVIEW: No Information

3. Composition/Information on Ingredients

3.1 Substances.

This product is a mixture. Health hazard information is based on its components.

3.2 Mixtures.

| CAS-No. | EC No. | REACH Reg No. | Wt. % | Chemical Name | Classification (1272/2008/EC) |
|------------|-----------|----------------|--------|--|--|
| 111-76-2 | 203-905-0 | 203-905-0 | 25-50 | Ethylene glycol monobutyl ether | Acute Tox. 4 Oral (H302) Acute Tox. 4 Dermal (H312) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) |
| 5989-27-5 | 227-813-5 | No Information | 10-25 | D-limonene | Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| 64742-48-9 | 265-150-3 | No Information | 10-25 | Naphtha, petroleum, hydrotreated heavy | Asp. Tox. 1 (H304) |
| 68439-57-6 | 270-407-8 | No Information | 2.5-10 | SODIUM (C14-16) OLEFIN SULFONATE | Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First-aid Measures

4.1 Description of first-aid measures.

General advice.

Call a physician if irritation develops or persists. Show this safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

Inhalation.

Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Skin contact.

If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes.

Eye contact.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Call a physician if irritation develops or persists. Remove contact lenses, if present.

Ingestion.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately. Gently wipe or rinse the inside of the mouth with water.

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

Symptoms

See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

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

Notes to physician

Treat symptomatically.

5. Fire-fighting Measures

5.1 Extinguishing media.

Suitable extinguishing media.

Water spray. Foam. Dry powder. Dry chemical. Alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO₂).

No Information

Extinguishing media which shall not be used for safety reasons.

High volume water jet.

5.2 Special hazards arising from the substance or mixture.

Flash back possible over considerable distance. Hazardous decomposition products formed under fire conditions.

5.3 Advice for firefighters.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Remove all sources of ignition. Use personal protection recommended in Section 8.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures.

Personal precautions.

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Do not breathe vapors or spray mist.

Advice for emergency responders.

Remove all sources of ignition. Use personal protection recommended in Section 8.

6.2 Environmental precautions.

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. See Section 12 for additional Ecological information.

6.3 Methods and materials for containment and cleaning up.

Methods for Containment.

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers. Use personal protective equipment. Remove all sources of ignition.

Methods for cleaning up.

Use personal protective equipment as required.

6.4 Reference to other sections

See section 8 for more information.

7. Handling and Storage

7.1 Precautions for safe handling.

Advice on safe handling.

Handle in accordance with good industrial hygiene and safety practice. Keep away from sources of ignition - No smoking.

Hygiene measures.

See section 7 for more information.

7.2 Conditions for safe storage, including any incompatibilities.

Storage Conditions.

Keep containers tightly closed in a cool, well-ventilated place. Store in original container.

7.3 Specific end use(s)

Specific use(s)

No Information

Exposure scenario

No Information Available

8. Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limit Values

| Chemical Name | Bulgaria | Croatia | Cyprus | Czech Republic | Estonia | European Union |
|---|---|---|---|---|---|---|
| Ethylene glycol monobutyl ether 111-76-2 | STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ | STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ | STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ | | STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ | STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ |
| Chemical Name | Greece | Hungary | Latvia | Lithuania | Malta | Ukraine |
| Ethylene glycol monobutyl ether 111-76-2 | TWA: 25 ppm TWA: 120 mg/m ³ | STEL: 246 mg/m ³ TWA: 98 mg/m ³ | STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ | STEL: 20 ppm STEL: 100 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³ | STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ | |

| Chemical Name | Poland | Romania | Russia | Slovenia | Turkey | |
|--|---|---|--------|---|---|--|
| Ethylene glycol monobutyl ether 111-76-2 | STEL: 200 mg/m ³ TWA: 98 mg/m ³ | STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ | | STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ | STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³ | |
| D-limonene 5989-27-5 | | | | STEL: 20 ppm STEL: 112 mg/m ³ TWA: 28 mg/m ³ TWA: 5 ppm | | |
| Naphtha, petroleum, hydrotreated heavy 64742-48-9 | STEL: 900 mg/m ³ TWA: 300 mg/m ³ | | | | | |

TWA: Time weighted average
STEL: Short term exposure limit

Derived No Effect Level (DNEL)

No Information Available

Predicted No Effect Level (PNEC)

No Information Available

8.2. Exposure controls.

Engineering Measures.

Showers, eyewash stations, and ventilation systems.

Personal protective equipment.

Eye/Face Protection.

Safety glasses with side-shields.

Hand Protection.

Wear suitable protective clothing.

Skin and body protection.

No Information

Respiratory protection.

In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures.

See section 7 for more information.

Environmental Exposure Controls.

No Information

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties.

| | |
|--|-----------------------------|
| Physical state | Liquid |
| Appearance | transparent |
| Colour | colorless |
| Odour | citrus |
| Odour Threshold | No Information |
| pH | 7.8 |
| Melting point / freezing point (°C) | No Information |
| Flash Point, (°C) | 49 |
| Boiling point/range (°C) | 100 - 1,461 |
| Evaporation rate | No Information |
| Combustibility | Does not Support Combustion |
| Upper/lower flammability or explosive limits | No Information |

| | |
|--|----------------|
| Vapour Pressure | No Information |
| Vapour density | No Information |
| Specific Gravity (g/cm ³) | 0.900 |
| Solubility in / Miscibility with Water | No Information |
| Partition Coefficient: n-octanol/water | No Information |
| Auto-Ignition Temperature (°C) | No Information |
| Decomposition temperature (°C) | No Information |
| Viscosity | No Information |
| Oxidising properties | Not Applicable |

9.2 Other information.

| | |
|--|-------|
| Volatile Organic Compounds (VOC) content | 55.22 |
|--|-------|

(See section 16 for abbreviation legend)

10. Stability and Reactivity

10.1 Reactivity.

Stable under normal conditions.

10.2 Chemical stability.

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions.

None known based on information supplied.

10.4 Conditions to Avoid.

Strong oxidizing agents.

10.5 Incompatible Materials.

None known based on information supplied.

10.6 Hazardous Decomposition Products.Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

11. Toxicological Information

11.1 Information on toxicological effects**Acute Toxicity****Product Information**

| | | |
|------------------|--------------------|------------------------|
| LD50 Oral | LD50 Dermal | LC50 Inhalation |
| N.I. | 4,085.00 | N.I. |

The following values are calculated based on chapter 3.1 Of the GHS document

| | |
|-------------------------|------------------|
| ATEmix (oral) | 1,134.4 mg/kg |
| ATEmix (dermal) | 4,085.0 mg/kg |
| ATEmixInhalation | ATEmixInhalation |

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>LD50 Oral</u> | <u>LD50 Dermal</u> | <u>LC50 Inhalation</u> |
|----------------|--|----------------------------|--------------------|------------------------|
| 111-76-2 | Ethylene glycol monobutyl ether | 470 | 2000 | N.I. |
| 5989-27-5 | D-limonene | 5200 mg/kg, 4400 mg/kg Rat | >5000 mg/kg Rabbit | N.I. |
| 64742-48-9 | Naphtha, petroleum, hydrotreated heavy | >6000 mg/kg Rat | >3160 mg/kg Rabbit | N.I. |
| 68439-57-6 | SODIUM (C14-16) OLEFIN SULFONATE | 2220 mg/kg Rat | 6300 | N.I. |

N.I. = No Information

Skin corrosion/irritation.

SKIN IRRITANT.

12. Ecological Information

12.1 Toxicity

<1% of the mixture consists of ingredient(s) of unknown aquatic toxicity

Ecotoxicity Effects

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|---|-------------------|---|---|
| Ethylene glycol monobutyl ether 111-76-2 | - | LC50 96 h <i>Lepomis macrochirus</i> 1490 mg/L, LC50 96 h <i>Lepomis macrochirus</i> 2950 mg/L | EC50 48 h <i>Daphnia magna</i> >1000 mg/L |
| D-limonene 5989-27-5 | - | LC50 96 h <i>Pimephales promelas</i> 0.619 - 0.796 mg/L, LC50 96 h <i>Oncorhynchus mykiss</i> 35 mg/L | - |
| Naphtha, petroleum, hydrotreated heavy 64742-48-9 | - | LC50 96 h <i>Pimephales promelas</i> 2200 mg/L | - |
| SODIUM (C14-16) OLEFIN SULFONATE 68439-57-6 | - | LC50 96 h <i>Brachydanio rerio</i> 1.0 - 10.0 mg/L, LC50 96 h <i>Brachydanio rerio</i> 12.2 mg/L | - |
| OLEIC ACID 112-80-1 | - | LC50 96 h <i>Pimephales promelas</i> 205 mg/L | - |
| Sodium hydroxide 1310-73-2 | - | LC50 96 h <i>Oncorhynchus mykiss</i> 45.4 mg/L | - |
| Sodium chloride 7647-14-5 | - | LC50 96 h <i>Lepomis macrochirus</i> 5560 - 6080 mg/L, LC50 96 h <i>Lepomis macrochirus</i> 12946 mg/ L, LC50 96 h <i>Pimephales</i> <i>promelas</i> 6020 - 7070 mg/L, LC50 96 h <i>Pimephales promelas</i> 7050 mg/L, LC50 96 h <i>Pimephales promelas</i> 6420 - 6700 mg/L, LC50 96 h <i>Oncorhynchus mykiss</i> 4747 - 7824 mg/L | EC50 48 h <i>Daphnia magna</i> 1000 mg/L, EC50 48 h <i>Daphnia magna</i> 340.7 - 469.2 mg/L |

12.2. Persistence and degradability.

No data are available on the product itself

12.3. Bioaccumulative potential.

Discharge into the environment must be avoided.

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>Bio. Conc. Factor (BCF)</u> | <u>Octanol-water par. Coeff (KOW)</u> |
|----------------|---------------------------------|--------------------------------|---------------------------------------|
| 111-76-2 | Ethylene glycol monobutyl ether | N.I. | 0.81 |

12.4 Mobility in soil.

Mobility in soil.

No information available

Mobility

No information available

12.5 Results of PBT and vPvB assessment.

No data are available on the product itself

12.6 Other adverse effects.

No information available

13. Disposal Considerations

13.1 Waste treatment methods.

Waste from residues /unused products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

No Information

Other information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

14. Transport Information

ADR

| | |
|-----------------------------|----------------|
| 14.1 UN number: | 1993 |
| 14.2 Proper shipping name: | No Information |
| 14.3 Hazard class(es): | No Information |
| 14.4 Packing group: | III |
| 14.5 Environmental hazards: | No Information |
| 14.6 Special provisions: | No Information |

IMDG

| | |
|--|----------------|
| 14.1 UN number: | 1993 |
| 14.2 Proper shipping name: | No Information |
| 14.3 Hazard class(es): | No Information |
| 14.4 Packing group: | No Information |
| 14.5 Marine pollutant: | No Information |
| Environmental hazards: | No Information |
| 14.6 Special provisions: | No Information |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | No Information |

IATA

| | |
|-----------------------------|----------------|
| 14.1 UN number: | 1993 |
| 14.2 Proper shipping name: | No Information |
| 14.3 Hazard class(es): | No Information |
| 14.4 Packing group: | No Information |
| 14.5 Environmental hazards: | No Information |
| 14.6 Special provisions: | No Information |

15. Regulatory Information**15.1 Safety, health and environmental regulations/legislation for the substance or mixture:****National regulatory information**

German WGK classification: 3

Remarks: WGK 0 = in general not a water pollutant
 WGK 1 = weak water pollutant
 WGK 2 = water pollutant
 WGK 3 = severe water pollutant

CAS/Chemical Name

111-76-2 Ethylene glycol monobutyl ether

French RG number Title

RG 84 Diseases caused by liquid organic solvents for professional use. Health effects caused by professional use of liquid organic solvents (indicated in the table).
 Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them

| | | | |
|------------|--|-------|--|
| 5989-27-5 | D-limonene | RG 84 | Diseases caused by liquid organic solvents for professional use. Health effects caused by professional use of liquid organic solvents (indicated in the table). Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them |
| 64742-48-9 | Naphtha, petroleum, hydrotreated heavy | RG 84 | Diseases caused by liquid organic solvents for professional use. Health effects caused by professional use of liquid organic solvents (indicated in the table). Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them |
| 7647-14-5 | Sodium chloride | RG 78 | |

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Persistent Organic Pollutants

Not applicable

Authorizations (Annex XIV) and/or restrictions on use (Annex XVII), Regulation (CE) 1907/2006

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>Annex XIV Authorisation List</u> | <u>Annex XVII Restricted list</u> |
|----------------|--|-------------------------------------|-----------------------------------|
| 64742-48-9 | Naphtha, petroleum, hydrotreated heavy | No | Yes |

EU Substances of Very High Concern

| <u>CAS-No.</u> | <u>Chemical Name</u> |
|------------------------------|----------------------|
| No items on this list exist. | |

International Inventories

| | |
|---------------|----------|
| TSCA | Complies |
| DSL | Complies |
| EINECS/ELINCS | - |
| ENCS | - |
| IECSC | Complies |
| KECI | - |
| PICCS | - |
| AICS | Complies |
| NZIoC | - |

| | |
|---------------|---|
| TSCA | United States Toxic Substances Control Act Section 8(b) Inventory. |
| DSL | Canadian Domestic Substances List. |
| EINECS/ELINCS | European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances. |
| ENCS | Japan Existing and New Chemical Substances. |
| IECSC | China Inventory of Existing Chemical Substances. |
| KECL | Korean Existing and Evaluated Chemical Substances. |
| PICCS | Philippines Inventory of Chemicals and Chemical Substances. |
| AICS | Australian Inventory of Chemical Substances. |
| NZIoC | New Zealand Inventory of Chemicals. |

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

16. Other Information

| | | | |
|----------------------------|----------------|------------------------|----------|
| Revision Date | 3/24/2021 | Supersedes Date | New MSDS |
| Reason for revision | No Information | | |

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

| | |
|------|---|
| H226 | Flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006