

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

1.1. Product identifier	
Product identifier.	123380
Product name.	Heavy Duty Soil Lifter
UFI	M3RF-T09J-3004-KSHA
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 s	afety 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 Rust-Oleum Europe Kolenbergstraat 23 3545 Halen, Belgium +32 (013) 460 200
1.4. Emergency telephone number	INFOTRAC 1-800-535-5053 (North America) +1-352-323-3500 (International)
Europe Austria Belgium Denmark Finland France Germany Ireland Iceland Italy Luxembourg Netherlands Norway Portugal Spain Sweden Switzerland United Kingdom	112 +43 1 406 43 43 Poison center (BE): +32 70 245 245 Poison Control Hotline (DK): +45 82 12 12 12 Poison Information Centre (FI):+358 9 471 977 ORFILA (FR): + 01 45 42 59 59 Poison Center Berlin (DE): +49 030 30686 790 par Poison Center Nord: +49 551 19240 (24h available English / German) National Poisons Information Centre (IE): +353 1 8379964 / + 353 1 8092566 +354 543 2222 Poison Center, Milan (IT): +39 02 6610 1029 112 National Poisons Information Center (NL): +31 88 755 8000 (NB: this service is only available to health professionals) Poisons Information (NO):+ 47 22 591300 Poison Information Center (PT): +351 800 250 250 Poison Information Center (SV):+46 8 33 12 31 Poison Son Center: Tel 145; +41 44 251 51 51 111 / 0300 020 0155

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Eye Irritation, category 2 Flammable Liquid, category 3 Hazardous to the aquatic environment, Chronic, category 2 Skin Irritation, category 2 Skin Sensitizer, category 1

2.2. Label elements



Signal Word

Danger

Hazardous ingredients which must be listed on the label

Contains

C10-C12, ISOALKANES, Ethylene glycol monobutyl ether, D-limonene

Possible Hazards

24.8% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity

GHS HAZARD STATEMENTS

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eve 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.

GHS LABEL PRECAUTIONARY STATEMENTS

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P330	Rinse mouth.
P331	Do NOT induce vomiting.

GHS SDS PRECAUTIONARY STATEMENTS

ONO ODO I NEOAO	
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting/] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/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.
P280	Wear protective gloves, protective clothing, eye protection, face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
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 (If applicable, see any additional instructions on the label).
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 or attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use carbon dioxide to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards

EMERGENCY OVERVIEW: No Information

SECTION 3: Composition/information on ingredients

3.1. Substances

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

3.2. Mixtures

Chemical Name	CAS-No.	EC No.	REACH Reg No.	Wt. %
Ethylene glycol monobutyl ether	111-76-2	203-905-0	203-905-0	>=30 - <50
D-limonene	5989-27-5	227-813-5	No Information	>=10 - <20
C10-C12, ISOALKANES	90622-57-4	292-459-0	No Information	>=10 - <20
SODIUM (C14-16) OLEFIN SULFONATE	68439-57-6	270-407-8	No Information	>=3 - <7

Chemical Name	Classification (1272/2008/EC)	Specific Conc. Limits, M-factors and ATEs
Ethylene glycol monobutyl ether	Acute Tox. 4 Oral (H302) Acute Tox. 4 Dermal (H312) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	ATE oral (mg/kg): 470 ATE dermal (mg/kg): 2000 ATE inhalation - vapor (mg/l/4h): N.R. ATE inhalation - dust/mist (mg/l/4h): N.R.
D-limonene	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	ATE oral (mg/kg): 5200 mg/kg, 4400 mg/ kg Rat ATE dermal (mg/kg): >5000 mg/kg Rabbit M-Factors: 1
C10-C12, ISOALKANES	Asp. Tox. 1 (H304) Acute Tox. 4 Inhalation (H332)	ATE oral (mg/kg): >10000 mg/kg Rat ATE dermal (mg/kg): >3200 mg/kg Rabbit ATE inhalation - vapor (mg/l/4h): >12.2 mg/L Rat
SODIUM (C14-16) OLEFIN SULFONATE	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	ATE oral (mg/kg): 2220 mg/kg Rat ATE dermal (mg/kg): 6300 ATE inhalation - vapor (mg/l/4h): N.R. ATE inhalation - dust/mist (mg/l/4h): N.R.

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

SECTION 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.

SECTION 5: Firefighting 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 (CO_2) .

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. As in any fire, wear self-contained breathing apparatus and full protective gear.

SECTION 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 material 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.

Other information.

No Information

6.4. Reference to other sections

No Information

SECTION 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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Values

Chemical Name	Austria	Belgium	Denmark	European Union.	Finland	France
Ethylene glycol monobutyl ether 111-76-2	STEL: 40 ppm STEL: 200 mg/ m3 TWA: 20 ppm TWA: 98 mg/m3	STEL: 50 ppm STEL: 246 mg/ m3 TWA: 20 ppm TWA: 98 mg/m3	TWA: 20 ppm TWA: 98 mg/m3	STEL: 50 ppm STEL: 246 mg/ m3 TWA: 20 ppm TWA: 98 mg/m3	STEL: 50 ppm STEL: 250 mg/ m3 TWA: 20 ppm TWA: 98 mg/m3	STEL: 50 ppm STEL: 246 mg/ m3 TWA: 10 ppm TWA: 49 mg/m3
D-limonene 5989-27-5	N.D.	N.D.	N.D.	N.D.	STEL: 50 ppm STEL: 280 mg/ m3 TWA: 25 ppm TWA: 140 mg/m3	N.D.
C10-C12, ISOALKANES 90622-57-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SODIUM (C14-16) OLEFIN SULFONATE 68439-57-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chemical Name	Germany	Iceland	Ireland	Italy	Luxembourg	Netherlands
Ethylene glycol monobutyl ether 111-76-2	STEL: 20 ppm STEL: 98 mg/m3 TWA: 10 ppm TWA: 49 mg/m3	STEL: 50 ppm STEL: 246 mg/ m3 TWA: 20 ppm TWA: 100 mg/m3 TWA: 25 ppm	STEL: 50 ppm STEL: 246 mg/ m3 TWA: 20 ppm TWA: 98 mg/m3	STEL: 50 ppm STEL: 246 mg/ m3 TWA: 20 ppm TWA: 98 mg/m3	STEL: 50 ppm STEL: 246 mg/ m3 TWA: 20 ppm TWA: 98 mg/m3	STEL: 246 mg/ m3 TWA: 100 mg/m3
D-limonene 5989-27-5	STEL: 20 ppm STEL: 112 mg/ m3 TWA: 5 ppm TWA: 28 mg/m3	N.D.	N.D.	N.D.	N.D.	N.D.
C10-C12, ISOALKANES 90622-57-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SODIUM (C14-16) OLEFIN SULFONATE 68439-57-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chemical Name	Norway	Portugal	Spain	Sweden	Switzerland	United Kingdom
Ethylene glycol monobutyl ether 111-76-2	STEL: 20 ppm STEL: 75 mg/m3 TWA: 10 ppm TWA: 50 mg/m3	STEL: 50 ppm STEL: 246 mg/ m3 TWA: 20 ppm TWA: 98 mg/m3	STEL: 50 ppm STEL: 245 mg/ m3 TWA: 20 ppm TWA: 98 mg/m3	STEL: 50 ppm STEL: 246 mg/ m3 TWA: 10 ppm TWA: 50 mg/m3	STEL: 20 ppm STEL: 98 mg/m3 TWA: 10 ppm TWA: 49 mg/m3	STEL: 50 ppm STEL: 246 mg/ m3 TWA: 25 ppm TWA: 123 mg/m3
D-limonene 5989-27-5	STEL: 37.5 ppm STEL: 175 mg/ m3 TWA: 25 ppm TWA: 140 mg/m3	N.D.	TWA: 30 ppm TWA: 168 mg/m3	N.D.	STEL: 14 ppm STEL: 80 mg/m3 TWA: 7 ppm TWA: 40 mg/m3	N.D.
C10-C12, ISOALKANES 90622-57-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SODIUM (C14-16) OLEFIN SULFONATE 68439-57-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

TWA: Time weighted average

STEL: Short term exposure limit.

Derived No Effect Level (DNEL)

No Information Available

Predicted No Effect Concentration (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.

Skin and body protection.

Wear suitable protective clothing. No Information

Respiratory protection.

In case of insufficient ventilation wear suitable respiratory equipment.

Environmental Exposure Controls.

No Information

SECTION 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
рН	7.8
Melting Point, °C	No Information
Flash Point, °C	49
Boiling Range, °C	100 - 1,390
Combustibility	Does not Support Combustion
Vapor Pressure, mmHg	No Information
Vapor density	No Information
Specific Gravity (g/cm3)	0.900
Solubility in water	No Information
Partition Coefficient, n-octanol/water	No Information
Auto-Ignition Temperature, °C	No Information
Decomposition temperature, °C	No Information
Viscosity	No Information
9.2. Other information	
Volatile organic compounds (VOC) content.	55.22
9.2.1. Information with regard to physical hazard classes	
No Information	
9.2.2. Other safety characteristics	
No Information	

SECTION 10: Stability and reactivity

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.

SECTION 11: Toxicological information

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

Acute toxicity.

Harmful if swallowed.

Product Information

Oral LD50	Dermal LD50	Inhalation LC50
N.I.	4,085.00	N.I.
The following values a	are calculated base	d on chapter 3.1 of the GHS document.
ATEmix (oral)		1,132.5 mg/kg
ATEmix (dermal)		4,085.0 mg/kg
ATEmix (inhalation-v	apor)	95.61 mg/l

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
111-76-2	Ethylene glycol monobutyl ether	470	2000	N.R.
5989-27-5	D-limonene	5200 mg/kg, 4400 mg/kg Rat	>5000 mg/kg Rabbit	N.R.
90622-57-4	C10-C12, ISOALKANES	>10000 mg/kg Rat	>3200 mg/kg Rabbit	>12.2 mg/L Rat
68439-57-6	SODIUM (C14-16) OLEFIN SULFONATE	2220 mg/kg Rat	6300	N.R.

Skin corrosion/irritation.

SKIN IRRITANT.

11.2. Information on other hazards

Endocrine disrupting properties

N.A.

Other information.

N.A.

SECTION 12: Ecological information

12.1. Toxicity

<1% of the mixture consists of components(s) of unknown hazards to the aquatic environment **Ecotoxicity effects.**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia.
Ethylene glycol monobutyl ether 111-76-2	N.D.	LC50 96 h Lepomis macrochirus 1490 mg/L, LC50 96 h Lepomis macrochirus 2950 mg/L	EC50 48 h Daphnia magna >1000 mg/L
D-limonene 5989-27-5	N.D.	LC50 96 h Pimephales promelas 0.619 - 0.796 mg/L, LC50 96 h Oncorhynchus mykiss 35 mg/L	N.D.
C10-C12, ISOALKANES 90622-57-4	N.D.	LC50 96 h Pimephales promelas 2600 mg/L	N.D.
SODIUM (C14-16) OLEFIN SULFONATE 68439-57-6	N.D.	LC50 96 h Brachydanio rerio 1.0 - 10.0 mg/L, LC50 96 h Brachydanio rerio 12.2 mg/L	N.D.

12.2. Persistence and degradability

No data are available on the product itself

12.3. Bioaccumulative potential

Discharge into the environment must be avoided.

CAS-No.	Chemical Name	Bio. Conc. Factor (BCF)	Octanol-water par. Coeff (KOW)
111-76-2	Ethylene glycol monobutyl ether	N.I.	0.81
5989-27-5	D-limonene	N.I.	4.38
90622-57-4	C10-C12, ISOALKANES	N.I.	N.I.
68439-57-6	SODIUM (C14-16) OLEFIN SULFONATE	N.I.	-1.3

12.4. Mobility in soil

Mobility in soil.

No information available

12.5. Results of PBT and vPvB assessment

No data are available on the product itself

12.6. Endocrine disrupting properties

No information available

12.7. Other adverse effects

No information available

SECTION 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.

SECTION 14: Transport information

ADR

14.1. UN number or ID number	No Information
14.2. UN proper shipping name	not regulated
14.3. Transport hazard class(es)	not regulated
14.4. Packing group	No Information
14.5. Environmental hazards	Yes.
14.6. Special precautions for user	No Information
IMDG	
14.1. UN number or ID number	No Information
14.2. UN proper shipping name	not regulated
14.3. Transport hazard class(es)	not regulated
14.4. Packing group	No Information
14.5 Marine Pollutant	Yes.
Environmental hazards	Yes.
14.6. Special precautions for user	No Information
14.7. Maritime transport in bulk according to IMO instruments	No Information

IATA

14.1. UN number or ID number	No Information
14.2. UN proper shipping name	not regulated
14.3. Transport hazard class(es)	not regulated
14.4. Packing group	No Information
14.5. Environmental hazards	Yes.
14.6. Special precautions for user	No Information

SECTION 15: Regulatory information

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

3

National regulatory information.

Germany WGK Classification

French table of occupational diseases

CAS-No.	Chemical Name	French table of occupational diseases
111-76-2	Ethylene glycol monobutyl ether	RG 84
5989-27-5	D-limonene	RG 84

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 and/or restrictions on use:

CAS-No.	Chemical Name	Substance subject to authorization per REACH Annex XIV	Restricted substance per REACH Annex XVII
111-76-2	Ethylene glycol monobutyl ether	No.	Yes.
5989-27-5	D-limonene	No.	Yes.

EU Substances of Very High Concern

None

International Inventories.

TSCA	-
DSL	Complies
EINECS/ELINCS	-
ENCS	-
IECSC	Complies
KECI	-
PICCS	-
AIIC	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.
AIIC	Australian Inventory of Industrial Chemicals.
NZIoC	New Zealand Inventory of Chemicals.

15.2. Chemical safety assessment

No.

SECTION 16: Other information

Revision Date

4/17/2023

Indication of changes: Commission Regulation (EU) 2020/878: amending Annex II by introducing specific requirements regarding nanoforms of substances, adapting to the 6th and 7th revision of the GHS, and adding requirements regarding the Unique Formula Identifier (as set by Annex VIII to Regulation (EC) 1272/2008), endocrine disrupting properties, specific concentration limits, M-factors and acute toxicity estimates.

Legend.

N.D.	No data available.
N.I.	No information available.
N.A.	Not Applicable.
N.R.	Not relevant.

This safety datasheet complies with the requirements of Regulation (EC) No. 2020/878

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.