Safety Data Sheet

Revision Date 20-Jun-2017
Version 1.04

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

1.1 Product identifier

Product name Heavy Duty Soil Lifter

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

Recommended Use Professional Carpet Cleaning

1.3 Details of the supplier of the safety data sheet

Supplier
Legend Brands Europe
Chemspec
22 Plover Close Interchange Park
Newport Pagnell MK16 9PS, UK
+44 (0) 1908 611211

Manufacturer
Legend Brands
Chemspec
15180 Josh Wilson Road
Burlington, WA 98233
800-932-3030

For further information, please contact: **msds@chemspecworld.com**

1.4 Emergency telephone number

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

Europe	112
Austria	+43 1 406 43 43
Belgium	Poison center (BE): +32 70 245 245
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Finland	Poison Information Centre (FI):+358 9 471 977
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790 Poison Center Nord: +49 551 19240 (24h available English / German)
Ireland	National Poisons Information Centre (IE): +353 1 8379964 / + 353 1 8092566
Iceland	+354 543 2222
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Luxembourg	112
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO):+ 47 22 591300
Portugal	Poison Information Center (PT): +351 21 330 3284
Spain	Poison Information Service (ES): +34 91 562 04 20
Sweden	Poisons Information Center (SV):+46 8 33 12 31
Switzerland	Poison Center: Tel 145; +41 44 251 51 51
United Kingdom	111

2. Hazards identification

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Aspiration toxicity	Category 1 - (H304)
Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)
Flammable liquids	Category 3 - (H226)

2.2 Label elements

Signal Word
Danger

Hazard Statements
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects
H226 - Flammable liquid and vapor
EUH019 - May form explosive peroxides
EUH032 - Contact with acids liberates very toxic gas
EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)
P280 - Wear eye protection/ face protection
P331 - Do NOT induce vomiting
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Contains Naphtha, petroleum, hydrotreated heavy, D-limonene

2.3. Other Hazards

No information available

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	EC-No	CAS No.	Weight-%	Classification (1272/2008/EC)	REACH Registration Number
Ethylene glycol monobutyl ether	203-905-0	111-76-2	25 - 50	Acute Tox. 4 (H302) Acute Tox. 4 (H312)	01-2119475108-36-XX XX

				Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	
D-limonene	227-813-5	5989-27-5	10 - 25	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam Liq. 3 (H226)	no data available
Naphtha, petroleum, hydrotreated heavy	918-481-9	64742-48-9-LB	10 - 25	Asp. Tox. 1 (H304)	no data available
Sodium hydroxide	215-185-5	1310-73-2	< 0.1	Skin Corr. 1A (H314)	01-2119457892-27-XXXX

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 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 not breathing, give artificial respiration. Consult a physician after significant exposure.

Skin contact Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Use a mild soap if available. Call a physician if irritation develops or persists.

Eye contact Remove contact lenses, if present. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Get medical attention immediately.

Protection of First-aiders Remove all sources of ignition. Use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician May cause sensitization of susceptible persons. Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, fog, Carbon dioxide (CO_2), foam or dry chemical.

Extinguishing media which shall not be used for safety reasons
No information available.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions
Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.

Advice for emergency responders
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. 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.
Methods for cleaning up	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Electrical equipment should be protected to the appropriate standard.

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	Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Hygiene measures	When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions
Use only in area provided with appropriate exhaust ventilation. Keep locked up or in an area accessible only to qualified or authorized persons. Use only explosion-proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Electrical equipment should be protected to the appropriate standard. Store between 41 and 77 °F (5 - 25° C) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in original container.

7.3 Specific end uses

Specific use(s)
No information available

Exposure scenario
No information available.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure Limit Values .

Chemical Name	European Union	Austria	Belgium	Denmark	Finland	France
Ethylene glycol monobutyl ether 111-76-2	S* TWA 20 ppm TWA 98 mg/m³ STEL 50 ppm STEL 246 mg/m³	Skin STEL 40 ppm STEL 200 mg/m³ TWA: 20 ppm TWA: 98 mg/m³	TWA: 20 ppm TWA: 98 mg/m³ S* STEL: 50 ppm STEL: 246 mg/m³	TWA: 20 ppm TWA: 98 mg/m³ Skin	TWA: 20 ppm TWA: 98 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ Skin	TWA: 10 ppm TWA: 49 mg/m³ STEL: 50 ppm STEL: 246 mg/m³
D-limonene 5989-27-5					TWA: 25 ppm TWA: 140 mg/m³ STEL: 50 ppm STEL: 280 mg/m³	TWA: 1000 mg/m³ STEL: 1500 mg/m³
Sodium hydroxide 1310-73-2		STEL 4 mg/m³ TWA: 2 mg/m³	Maximum Limit Value: 2 mg/m³	Ceiling: 2 mg/m³	STEL: 2 mg/m³ Ceiling: 2 mg/m³	TWA: 2 mg/m³
Chemical Name	**Germany**	**Iceland**	**Ireland**	**Italy**	**Luxembourg**	**The Netherlands**
Ethylene glycol monobutyl ether 111-76-2	TWA: 10 ppm TWA: 49 mg/m³ Skin	TWA: 20 ppm TWA: 100 mg/m³ TWA: 25 ppm S* Ceiling: 40 ppm Ceiling: 200 mg/m³ Ceiling: 50 ppm STEL: 50 ppm STEL: 246 mg/m³	TWA: 20 ppm TWA: 98 mg/m³ STEL: 50 ppm STEL: 246 mg/m³ Skin	TWA: 20 ppm TWA: 98 mg/m³ TWA: 97 mg/m³ STEL: 50 ppm STEL: 246 mg/m³ Skin	S* STEL: 50 ppm STEL: 246 mg/m³ TWA: 20 ppm TWA: 98 mg/m³	Skin STEL: 246 mg/m³ TWA: 100 mg/m³
D-limonene 5989-27-5	TWA: 5 ppm TWA: 28 mg/m³ Skin					
Naphtha, petroleum, hydrotreated heavy 64742-48-9-LB	TWA: 50 ppm TWA: 300 mg/m³					
Sodium hydroxide 1310-73-2		STEL: 2 mg/m³	STEL: 2 mg/m³			
Chemical Name	**Norway**	**Portugal**	**Spain**	**Sweden**	**Switzerland**	**The United Kingdom**
Ethylene glycol monobutyl ether 111-76-2	TWA: 10 ppm TWA: 50 mg/m³ Skin STEL: 20 ppm STEL: 75 mg/m³	STEL: 50 ppm STEL: 246 mg/m³ TWA: 20 ppm TWA: 98 mg/m³	S* STEL: 50 ppm STEL: 245 mg/m³ TWA: 20 ppm TWA: 98 mg/m³	LLV: 10 ppm LLV: 50 mg/m³ S* STV: 20 ppm STV: 100 mg/m³	Skin 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 Skin
D-limonene 5989-27-5	TWA: 25 ppm TWA: 140 mg/m³ STEL: 37.5 ppm STEL: 175 mg/m³				STEL: 14 ppm STEL: 80 mg/m³ TWA: 7 ppm TWA: 40 mg/m³	
Naphtha, petroleum, hydrotreated heavy 64742-48-9-LB					STEL: 100 ppm STEL: 600 mg/m³ TWA: 50 ppm TWA: 300 mg/m³	
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m³	Ceiling: 2 mg/m³	STEL: 2 mg/m³	LLV: 1 mg/m³ CLV: 2 mg/m³	STEL: 2 mg/m³ TWA: 2 mg/m³	STEL: 2 mg/m³

TWA: Time weighted average
STEL: Short term exposure limit
LLV: Exposure Limit Values
STV: Short Term Value

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure controls

Engineering Measures	Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/Face Protection	Tightly fitting safety goggles.
Hand Protection	Solvent-resistant gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Skin and body protection	Long sleeved clothing.
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene measures	When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.
Environmental Exposure Controls	Do not allow material to contaminate ground water system. Prevent product from entering drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Yellow
Odor	Citrus
Odor Threshold	No information available

Property	**Values**	**Remarks**
pH	8.5	
Melting/freezing point		No information available
Boiling point/boiling range		No information available
Flash Point	49 °C / 120 °F	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity	0.90 g/cc	
Water solubility	completely soluble	
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		No information available

9.2 Other information

Volatile organic compounds (VOC) content	66%

10. Stability and Reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage conditions. Risk of ignition.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to Avoid

Direct sources of heat.

10.5 Incompatible Materials

Strong oxidizing agents

10.6 Hazardous Decomposition Products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information
The product itself has not been tested.

Inhalation	There are no data available for this product.
Eye contact	There are no data available for this product.
Skin contact	There are no data available for this product.
Ingestion	There are no data available for this product.

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

ATEmix (oral)	1,039.00 mg/kg
ATEmix (dermal)	3,255.00 mg/kg
ATEmix (inhalation-dust/mist)	45.33 mg/l
ATEmix (inhalation-vapor)	23.00 mg/l

Unknown Acute Toxicity
< 1% of the mixture consists of ingredient(s) of unknown toxicity
< 1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
< 1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
< 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
< 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
< 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene glycol monobutyl ether	470 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
D-limonene	4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation	May cause eye irritation.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Specific target organ systemic toxicity (single exposure)	No information available.
Specific target organ systemic toxicity (repeated exposure)	.
Chronic toxicity	May cause adverse liver effects. Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Target Organs	Blood. Central nervous system. Eyes. Hematopoietic System. Kidney. Liver. Respiratory system. Skin.
Aspiration hazard	Risk of serious damage to the lungs (by aspiration).

12. Ecological information

12.1 Toxicity

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

Ecotoxicity effects

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Ethylene glycol monobutyl ether		LC50: 96 h Lepomis macrochirus 1490 mg/L static LC50: 96 h Lepomis macrochirus 2950 mg/L	EC50: 48 h Daphnia magna 1000 mg/L
D-limonene		LC50: 96 h Pimephales promelas 0.619 - 0.796 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 35 mg/L	
Naphtha, petroleum, hydrotreated heavy		LC50: 96 h Pimephales promelas 2200 mg/L	
Sodium hydroxide		LC50: 96 h Oncorhynchus mykiss 45.4 mg/L static	

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

Chemical Name	log Pow
Ethylene glycol monobutyl ether	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 information available.

12.6 Other adverse effects.

Discharge into the environment must be avoided.

13. Disposal Considerations

13.1 Waste treatment methods

Waste from residues / unused products	If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.
Other information	According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

14. Transport Information

ADR

14.1 UN	-
14.2 Proper shipping name	-
14.3 Hazard class	-
14.4 Packing Group	-
14.5 Environmental hazard	-
14.6 Special Provisions	-

IMDG

14.1 UN	1993
14.2 Proper shipping name	Flammable Liquid, N.O.S. (D'LIMONENE)
14.3 Hazard class	3
14.4 Packing Group	III
14.5 Marine pollutant	Not applicable
Environmental hazard	-
14.6 Special Provisions	None
14.7 Transport in bulk according to MARPOL 73/78 and the IBC Code	No information available

IATA

14.1 UN	-
14.2 Proper shipping name	-
14.3 Hazard class	-
14.4 Packing Group	-
14.5 Environmental hazard	-
14.6 Special Provisions	-

15. Regulatory information

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

National regulatory information

Germany

Chemical Name	French RG number	Title
Ethylene glycol monobutyl ether 111-76-2	RG 84	-
D-limonene 5989-27-5	RG 84	-
Naphtha, petroleum, hydrotreated heavy 64742-48-9-LB	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

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AICS	Complies
KECL	Complies
NZIoC	Complies

Legend

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2 Chemical Safety Assessment

No information available

16. Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H315 - Causes skin irritation

H319 - Causes serious eye irritation
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways

Prepared By	Chemspec Regulatory Affairs/Product Safety
Revision Date	20-Jun-2017
Revision Note	Not Applicable.

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

Disclaimer
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.

End of Safety Data Sheet