

MATERIAL SAFETY DATA SHEET

According to EC Directive 2001/58/EC

1. Identification of the Substances or Preparation and of the Company

- 1.1 Identification of preparation: **Heavy Duty Soil Lifter**
- 1.1.2 Date of Revision: May 19, 2009
- 1.1.3 Use of preparation: Cleaning Agent/Spot Treatment
- 1.2 Company identification:
Chemspec Europe
Unit 36C, Tong Park
Otley Road, Baildon
West Yorkshire BD17 7QD UK
Tel: 01274 597333
Fax: 01274 597444
- 1.3 Emergency telephone number, official advisory bodies:
 - 1.3.1 For medical emergency call Chemtrec at 00-1-703 527-3887.

2. Composition/Information on Ingredients

- 2.1 Chemical Description: Water, surfactant, solvent, citrus oil
- 2.2 Hazardous Ingredients:

Chemical Name	%	CAS-No.	EC#	Hazard Symbol	R-Phrases
Sodium Olefin Sulfonate	10-20	68439-57-6	270-407-8	Xi	36,37,38
2-Butoxyethanol	25-50	111-76-2	203-9050	F, Xn	10,20,22
Odorless Mineral Spirits	10-20	8052-41-3	232-489-3	Xn	20,22,36
D-Limonene	10-20	5989-27-5	232-433-8	Xn	22

3. Possible Hazards

- 3.1 For humans: May be irritating to skin, eyes, and upper respiratory system.
- 3.2 For environment: None known.

4. First Aid Measures

- 4.1 Inhalation: Remove to fresh air. If symptoms persist consult physician.
- 4.2 Eye contact: Remove contact lenses. Flush with water for at least 15 minutes.
- 4.3 Skin contact: Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing.
- 4.4 Ingestion: Drink plenty of water. Consult physician.
- 4.5 Physician: Treatment based on judgment of attending physician.

5. Fire Fighting Measures

- 5.1 Suitable extinguishing media: Water, alcohol foam, carbon dioxide, or dry chemical.
- 5.2 Unsuitable extinguishing media: None known.
- 5.3 Special exposure hazards: Possibly oxides of carbon, sodium, sulfur and unidentified organic compounds.
- 5.4 Special safety equipment: Self-contained positive pressure breathing apparatus and protective clothing.

6. **Accidental Release Measures**

- 6.1 Personal precautions: Prevent eye and skin contact.
- 6.2 Environmental precautions: Dispose of according to local regulations.
- 6.3 Methods of cleaning up: Use absorbent material to soak up spills. Sweep up and dispose of according to local regulations.

7. **Handling and Storage**

- 7.1 Handling: Prevent eye and skin contact.
- 7.2.1 Storage: Keep container closed to avoid contamination.
- 7.2.2 Incompatible storage: Keep away from heat and direct sunlight.
- 7.2.3 Other: None known.

8. **Exposure Controls/Personal Protection**

- Please use common sense when handling this product.
- 8.1 Respiratory protection: Use local exhaust or dilution ventilation.
- 8.2 Hand protection: Chemical resistant gloves.
- 8.3 Eye protection: Safety glasses or safety goggles
- 8.4 Skin protection: Use body-covering clothing.
- 8.5 Working hygiene: Take usual precautions when handling.

9. **Physical and Chemical Properties**

- 9.1.1 Appearance: Clear liquid
- 9.1.2 Color: Yellow
- 9.1.3 Odor: Citrus
- 9.2 pH: 7.8 – 8.8
- 9.3 Boiling point/boiling range: n. av.
- 9.4 Specific Gravity: 0.90 g/cc
- 9.5 Wt/Gal: 7.5 lbs/gal
- 9.6 Solubility in water: Complete.
- 9.7 % VOC: 72% 2-butoxyethanol, OMS, D-limonene
- 9.8 Flash point: n. av.
- 9.9 Inflammation: n. av.

10. **Stability and Reactivity**

- 10.1 Conditions to avoid: Sources of ignition.
- 10.2 Materials to avoid: Strong acids and strong oxidizing agents
- 10.3 Hazardous decomposition of materials: See point 5.3.

11. **Toxicological Information**

- 11.1 Acute toxicity:
 - Sodium Olefin Sulfonate: LD50 dermal rabbit: 400-2000 mg/kg
 - 2-Butoxyethanol: LD50 dermal rabbit: 99-610 mg/kg
 - OMS: LD50 dermal rabbit: >3000 mg/kg
 - D-Limonene: LD50 dermal rabbit: >2000 mg/kg
- 11.2 Acute oral toxicity:
 - Sodium Olefin Sulfonate: LD50 oral rat: 400-2000 mg/kg

2-Butoxyethanol: LD50 oral rat: 99-610 mg/kg

OMS: LD50 oral rat: >5000 mg/kg

D-Limonene: LD50 oral rat: 4400 mg/kg

- 11.3 Chronic effects: n. av.
- 11.4 Sensitization: n. av.
- 11.5 Carcinogenicity: n. ap.
- 11.6 Mutagenicity: n. av.
- 11.7 Reproductive toxicity: n. av.
- 11.8 Narcotic effects: n. av.

12. **Ecological Information**

- 12.1 Water-Hazard class: None (U.S.)
- 12.2 Biodegradability: May not be completely biodegradable
- 12.3 Bioaccumulation: n. av.
- 12.4 Aquatic toxicity:
 - Sodium Olefin Sulfonate: LC50 fish: 1-10 mg/L
 - 2-Butoxyethanol: LC50 rainbow trout (96hr): 1700 mg/L
 - D-Limonene: LC50 fish: 33 mg/L
- 12.5 Other relevant ecological information: n. av.

13. **Disposal**

- 13.1 Refer to local regulations.

14. **Transport Information**

All ingredients used in this formula are non-regulated for non-bulk.

15. **Regulations**

- 15.1 Symbol: Xi: Irritant, F: Flammable



- 15.2 R-Sentences:
 - R10: Flammable
 - R36/37/38: Irritating to eyes, respiratory system and skin.
- 15.3 S-Sentences:
 - S2: Keep out of reach of children.
 - S24/25: Avoid contact with skin and eyes
 - S36/39: Wear suitable gloves and eye/face protection

16. **Other Information**

DISCLAIMER OF LIABILITY

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material and the results to be obtained from the use thereof.

n. ap. = not applicable

n. av. = not available