

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: **Kill Odor Plus**

1.1.2 Date of Revision: January 29, 2009

1.1.3 Use of preparation: Cleaning Agent/Deodorizer

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, acids, fragrance.

2.2 Hazardous Ingredients:

Chemical Name	%	CAS-No.	EC#	Hazard Symbol	R-Phrases
2-Butoxyethanol	10-20	111-76-2	2039050	Xn	10,20,22
Sodium Olefin Sulfonate	10-20	68439-57-6		Xi	36,37,38

3. Possible Hazards

3.1 For humans: May cause eye and skin irritation.

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, carbon dioxide, foam, or dry chemical.

5.2 Unsuitable extinguishing media: None known.

5.3 Special exposure hazards: Possibly oxides of carbon, sulfur, and other unidentified 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: None known
- 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: Gloves recommended.
- 8.3 Eye protection: Safety glasses recommended.
- 8.4 Skin protection: Use body covered 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: Kill Odor Plus
- 9.2 pH: 6.2 – 7.2
- 9.3 Boiling point/boiling range: n. av.
- 9.4 Specific Gravity: 1.01
- 9.5 Wt/Gal: 8.4 lbs/gal
- 9.6 Solubility in water: Complete
- 9.7 % VOC: n. av.
- 9.8 Flash point: n. av.
- 9.9 Inflammation: n. av.

10. **Stability and Reactivity**

- 10.1 Conditions to avoid: Heat, flame, sparks.
- 10.2 Materials to avoid: Strong acids and oxidizers
- 10.3 Hazardous decomposition of materials: See point 5.3.

11. **Toxicological Information**

- 11.1 Acute toxicity:
 - 2-Butoxyethanol: LD50 dermal rabbit: 99-610 mg/kg
 - Sodium Olefin Sulfonate: LD50 dermal rabbit: 400-2000 mg/kg
- 11.2 Acute oral toxicity:
 - 2-Butoxyethanol: LD50 oral rat: 470-3000 mg/kg
 - Sodium Olefin Sulfonate: LD50 oral rat: 500-5000 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: Readily biodegradable
- 12.3 Bioaccumulation: n. av.
- 12.4 Aquatic toxicity:
 - 2-Butoxyethanol: LC50 rainbow trout (96hr): 1700 mg/L
 - Sodium Olefin Sulfonate: LC50 fish: 1-10 mg/L
- 12.5 Other relevant ecological information: Small quantities considered to be harmless.

13. **Disposal**

- 13.1 Refer to local regulations.

14. **Transport Information**

Not Regulated

15. **Regulations**

- 15.1 Symbol: Xi: Irritant



- 15.2 R-Sentences:
 - R36: Irritating to eyes.
 - R38: Irritating to skin.
- 15.3 S-Sentences:
 - S2: Keep out of reach of children.
 - S24: Avoid contact with skin.
 - S25: Avoid contact with eyes.
 - S36/37: Wear suitable protective clothing and gloves.

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