

# 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: Liquid High Heat
- 1.1.2 Date of Revision: October 8, 2009
- 1.1.3 Use of preparation: Cleaning Agent
- 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, phosphate ether, lactic acid, anionic surfactant, hydantoin, sodium hydroxide
- 2.2 Hazardous Ingredients:

Chemical Name	%	CAS-No.	EC#	Hazard Symbol	R-Phrases
Phosphate Ethers	5-10	68130-47-2	614-291-2	Xi	36
2-Hydroxy Propanoic Acid	5-10	79-33-4	200-018-0	Xi	36,38
Sodium Hydroxide	1-5	1310-73-2	215-185-5	C, Xi	35,36,38

## 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, alcohol foam, carbon dioxide, or dry chemical.
- 5.2 Unsuitable extinguishing media: None known.
- 5.3 Special exposure hazards: Possibly oxides of carbon, sodium 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: 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: Colorless
- 9.1.3 Odor: Low
- 9.2 pH: 2.8 – 3.8
- 9.3 Boiling point/boiling range: n. av.
- 9.4 Specific Gravity: 1.035 g/cc
- 9.5 Wt/Gal: 8.62 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: None known.
- 10.2 Materials to avoid: Strong-oxidizing agents and strong bases.
- 10.3 Hazardous decomposition of materials: See point 5.3.

## 11. **Toxicological Information**

- 11.1 Acute toxicity:
  - 2-Hydroxy Propanoic Acid: LD50 dermal rabbit: >2000 mg/kg.
  - Sodium Hydroxide: LD50 dermal rabbit: 1350 mg/kg
- 11.2 Acute oral toxicity:
  - 2-Hydroxy Propanoic Acid: LD50 oral rat: 3730 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:
  - 2 -Hydroxy Propanoic Acid: LC50 fish (48hr): 320 mg/L.  
EC50 Daphnia (48hr): 210 mg/L.
  - Sodium Hydroxide: LC50 brook trout (24 hr): 25 ppm.
- 12.5 Other relevant ecological information: Small quantities considered to be harmless.

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.



- 15.2 R-Sentences:
  - R36/38: Irritating to eyes, and skin.
- 15.3 S-Sentences:
  - S2: Keep out of reach of children.
  - S24/25: Avoid contact with skin and eyes.
  - S37/39: 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