

# 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: **Formula 161**

1.1.2 Date of Revision: October 14, 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, inorganic salt, chelating agent, surfactant, amides, solvent

2.2 Hazardous Ingredients:

| Chemical Name                    | %     | CAS#       | EC#       | Hazard Symbol | R-Phrases |
|----------------------------------|-------|------------|-----------|---------------|-----------|
| Sodium Tripolyphosphate          | 1-5   | 7758-29-4  | 231-838-7 | Xi            | 36,37,38  |
| Chelating Mixture                | 1-5   | 64-02-8    | 200-573-9 | Xi            | 36,37     |
| Sodium (C14-16) olefin sulfonate | 15-20 | 68439-57-6 | 270-407-8 | Xi            | 36,37,38  |
| Dipropylene glycol n-butylether  | 1-5   | 29911-28-2 | 249-951-5 | Xi            | 36,37,38  |

## 3. Possible Hazards

3.1 For humans: May cause eye, skin and upper respiratory 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 contacts. Flush with water for at least 15 minutes. If irritation persists consult physician.

4.3 Skin contact: Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing.

4.4 Ingestion: Drink 1-2 glasses of water or milk. Consult physician.

4.5 Physician: Treatment based on judgment of attending physician.

5. **Fire Fighting Measures**

- 5.1 Suitable extinguishing media: Any standard extinguishing media (alcohol foam, water spray or fog, CO<sub>2</sub> dry chemical, etc.)
- 5.2 Unsuitable extinguishing media: None known.
- 5.3 Special exposure hazards: Possibly the release of oxides of carbon, sodium, sulfur and possibly other unidentified organic compounds.
- 5.4 Special safety equipment: Self-contained positive pressure breathing apparatus and other personal protective equipment.

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 inert 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: Heat, flame and sparks.
- 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. Wear splash goggles when mists or aerosols are anticipated.
- 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: Citrus-Ammonia
- 9.2 pH: 9.2 – 9.8
- 9.3 Boiling point/boiling range: n. av.
- 9.4 Specific Gravity: 1.05 g/cc
- 9.5 Wt/Gal: 8.75 lbs/gal
- 9.6 Solubility in water: Complete
- 9.7 % VOC: n. av.
- 9.8 Flash point: >200°F (>93°C).
- 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 strong oxidizing agents.
- 10.3 Hazardous decomposition of materials: See point 5.3.

11. **Toxicological Information**

- 11.1 Acute toxicity:
  - Chelating mixture: LD50 dermal rabbit: >5000 mg/kg
  - Sodium olefin sulfonate: LD50 dermal rabbit: 400-2000 mg/kg
  - Dipropylene glycol n-butylether: LD50 dermal rabbit: 6490 mg/kg
- 11.2 Acute oral toxicity:
  - Sodium Tripolyphosphate: LD50 oral rat: 3900 mg/kg
  - Chelating mixture: LD50 oral rat: 3030 mg/kg
  - Sodium olefin sulfonate: LD50 oral rat: 500-5000 mg/kg
  - Dipropylene glycol n-butylether: LD50 oral rat: 3700 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: n. av.
- 12.2 Biodegradability: May not be completely biodegradable.
- 12.3 Bioaccumulation: n. av.
- 12.4 Aquatic toxicity:
  - Chelating mixture: LC50 fathead minnow: >100 mg/L
  - Dipropylene glycol n-butylether: LD50 (96hr) guppy: 84 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



- 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 warrant 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