

MATERIAL SAFETY DATA SHEET

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

Identification of the product

Product name: BSDC & OILDC Refractometer Calibration Fluids

Manufacturer/supplier identification

Company: Bellingham + Stanley Ltd., Longfield Road, Tunbridge Wells, KENT. TN2 3EY. UK

Telephone : +44 (0) 1892 500400

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2. Composition/information on ingredients

Chemical characterization

Methyl Siloxane

Hazardous Ingredients

Name: Dimethyl, phenylmethyl siloxane, trimethyl-terminated

CAS-No.: 68037-71-8

EINECS/ELINCS No.: Exempt or not available

Conc. (% w/w): 96.0

Classification: R52, R53

Name: Tetraphenyldimethyldisiloxane

CAS-No.: 807-28-3

EINECS/ELINCS No.: 212-361-3

Conc. (% w/w): 4.0

Classification: R53

3. Hazards identification

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

4. First aid measures

On contact with eyes: No first aid should be needed.

On skin contact: No first aid should be needed.

If inhaled: No first aid should be needed.

On ingestion: No first aid should be needed.

5. Fire-fighting measures

Suitable extinguishing media:

Carbon dioxide, foam, dry powder or fine water spray.

Water can be used to cool fire exposed containers.

Unsuitable extinguishing media: None known.

Hazards during fire fighting: None known.

Special protective equipment/procedures: A self-contained respirator and protective clothing should be worn. Keep containers cool with water spray until well after the fire is out. Determine the need to evacuate or isolate the area according to your local emergency plan.

Hazardous Combustion Products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

6. Accidental release measures

Personal precautions: Wear proper protective equipment.

Precautions to protect the environment: Do not empty into drains. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

Methods for cleaning up: Determine the need to evacuate or isolate the area according to your local emergency plan. Very large spills should be contained by bunding, etc... procedures. Mop, wipe or soak up with absorbent material and place in a container with a lid. The spilled product produces an extremely slippery surface.

7. Handling and storage

Advice on safe handling: Avoid eye contact. General ventilation is recommended.

Advice on storage : Do not store with oxidizing agents.

Unsuitable packaging materials: None known.

8. Exposure controls/personal protection

Engineering Controls

Ventilation: Refer to Section 7

Exposure controls for hazardous components

None of the components have assigned exposure limits.

Personal protection equipment

Respiratory protection: Respiratory protection is not normally required.

Hand protection: Gloves are not normally required.

Eye protection: Safety glasses should be worn.

Skin protection: Protective equipment is not normally necessary.

Hygiene measures: Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Environmental exposure controls: Refer to section 6 and 12.

Additional information: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. Physical and chemical properties

Appearance

Form: Liquid

Colour: White to light yellow

Odour: None

Other data

Boiling point/range: > 300°C

Flash point: 198 °C (Cleveland Open Cup)

380 °C (Closed Cup)

Explosive properties: No

Specific Gravity: 1.09

Viscosity: 45 cSt at 25°C.

Oxidizing properties: No

10. Stability and reactivity

Stability: Stable under normal usage conditions.

Conditions to avoid: None established.

Materials to avoid: Can react with strong oxidising agents.

Hazardous decomposition products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.



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Code: 90-354 Issue: 01 Revision: C

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11. Toxicological information

On contact with eyes: May cause temporary discomfort.

On skin contact: No adverse effects are normally expected.

If inhaled: No adverse effects are normally expected.

On ingestion: No adverse effects are normally expected.

12. Ecological information

Environmental fate and distribution

Low molecular weight volatile siloxanes have very low water solubility and evaporate to air. Low molecular weight volatile siloxanes in air are degraded by reaction with hydroxyl radicals, which is the dominant degradation process for most chemicals in the atmosphere. Low molecular weight volatile siloxanes in soil are removed by several simultaneously occurring processes including volatilisation, hydrolysis, and clay-catalysed degradation.

Ecotoxicity effects

Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Adverse effects have only been observed in closed test systems.

Bioaccumulation: Potential to bioaccumulate.

Fate and effects in waste water treatment plants

The siloxanes in this product do not contribute to the BOD. No adverse effects on bacteria are predicted.

Additional environmental information

Additional environmental information on the silicone component is available on request.

13. Disposal considerations

Product disposal: Dispose of in accordance with local regulations.

Packaging disposal: Dispose of in accordance with local regulations.

14. Transport information

Road / Rail (ADR/RID)

Not subject to ADR/RID.

Sea transport (IMDG)

Not subject to IMDG code.

Air transport (IATA)

Not subject to IATA regulations.

15. Regulatory information

Labelling according to EEC Directive

R-phrases: R52 Harmful to aquatic organisms.

R53 May cause long-term adverse effects in the aquatic environment.

S-phrases: S61 Avoid release to the environment.

Refer to special instructions/Safety data sheets.

S51 Use only in well-ventilated areas.

National legislation / regulations

Ozone depleting chemicals: No ozone depleting chemicals are present or used in manufacture.

Status

EINECS: All ingredients listed or exempt.

TSCA: All chemical substances in this material are

included on or exempted from listing on the

TSCA Inventory of Chemical Substances.

16. Other Information

Revision.

Supersedes issue of 01/12/2006

Date of issue: 19/01/2010



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