

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product Identifier**

BSDD Refractometer Calibration Fluid

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses: Refractometer calibration

1.3 Details of the supplier of the safety data sheet

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

Telephone: +44 (0) 1892 500400 Fax: +44 (0) 1892 543115 Email: lab.bs.uk@xyleminc.com

1.4 Emergency telephone number For Hazardous Material Chemical Emergencies (Spill, Leak, Fire, Exposure, or Accident)

Call CHEMTREC Day or Night: Within USA and Canada 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

Section 2: Hazards identification**2.1 Classification of substance or mixture**Non-hazardous according to Regulation (EC) No.1272/2008
[CLP/GHS]**2.2 Label elements** None**2.3 Other Hazards** None**Section 3: Composition/Information on ingredients****3.1 Substances**

Silicone compound, not categorised as Hazardous.

Section 4: First aid measures**4.1 Description of first aid measures**

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

Inhalation: Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of symptoms, consult a physician.**Skin contact:** After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.**Eye Contact:** In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult a physician. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.**Ingestion:** If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Give nothing to eat or drink.**4.2 Most important symptoms and effects both acute and delayed**

Mild eye irritant, possible light irritation to skin.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Firefighting measures**5.1 Extinguishing Media****Suitable:** Use an agent suitable for surrounding fire. Foam, water fog, dry chemical powder, carbon dioxide, other inert gasses, sand or earth.**Unsuitable:** Direct water jets. Simultaneous use of foam and water.**5.2 Special hazards arising from the substance or mixture**

In case of fire may be liberated: Carbon oxides, formaldehyde, silicon dioxide, smoke and irritating vapours as products of incomplete combustion.

5.3 Advice for firefighters

Do not fight fire when fire reaches explosives. Wear self-contained breathing apparatus if necessary.

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces, carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

Section 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid generation of dust.

Do not breathe dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. Use personal protective equipment (see section 8).

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and materials for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Collect in closed and suitable containers for disposal. Clear spills immediately. Dispose of according to local regulations.

6.4 Reference to other sections

See sections 8 and 13 for personal protection and disposal information.

Section 7: Handling and storage**7.1 Precautions for safe handling**

Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use. Avoid inhalation, skin and eye contact.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, well-ventilated place, out of direct sunlight. Keep away from incompatible materials (section 10).

7.3 Specific end use(s)

Apply refractometer samples by pipette. Refer to certification accompanying samples.

Section 8: Exposure controls/personal protection**8.1 Control parameters**

None of the components have assigned exposure limits

8.2 Exposure Controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Good general ventilation should be sufficient.

Personal Protective Equipment

As appropriate to the situation and the quantity handled

Eyes/Face: Safety glasses (EN166)**Gloves:** Usually not necessary**Respirator:** Usually not necessary**Ventilation:** General

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance:	Colourless clear liquid	(k) Vapour pressure:	Very low
(b) Odour:	None	(l) Vapour density:	No data available
(c) Odour Threshold:	No data available	(m) Relative density:	1.07 at 25°C
(d) pH:	No data available	(n) Solubility(ies):	Insoluble in water
(e) Melting point/freezing point:	Below -35 °C	(o) Partition coefficient: n-octanol/water:	No data available
(f) Initial boiling point and boiling range:	210°C	(p) Auto-ignition temperature:	No data available
(g) Flash point:	214°C – Open cup	(q) Decomposition temperature:	>150°C
(h) Evaporation rate:	No data available	(r) Viscosity:	No data available
(i) Flammability (solid, gas):	Low fire hazard	(s) Explosive properties:	No data available
(j) Upper/lower flammability or explosive limits:	No data available	(t) Oxidising properties:	No data available

9.2 Other information

No additional information

Section 10: Stability and reactivity

10.1 Reactivity

None known

10.2 Chemical Stability

The product is chemically stable under standard ambient conditions (room temperature)

10.3 Possibility of hazardous reactions

None known

10.4 Conditions to avoid

Keep away from sparks and open flames

10.5 Incompatible materials

No specific data

10.6 Hazardous decomposition products

May release carbon oxides, formaldehyde, silicon dioxide, smoke and irritating vapours when heated to decomposition.

Section 11: Toxicological information

11.1 Information on toxicological effects

Eyes:	May cause mild irritation	STOT – single exposure:	No data available
Skin:	May cause light irritation	STOT – repeated exposure:	No data available
Inhalation:	No data available	Carcinogenicity:	No data available
Ingestion:	No data available	Mutagenicity:	No data available
Oral LD50 (rat):	>5000 mg/kg (by analogy)	Reproductive Toxicity:	No data available
Dermal LD50 (Rabbit):	No data available	Aspiration hazard	No data available

Section 12: Ecological information

12.1 Toxicity

Not available

12.4 Mobility in soil

Not available

12.2 Persistence and degradability

Not available

12.5 Results of PBT and vPvB assessment

Not applicable

12.3 Bioaccumulative potential

Not available

12.6 Other adverse effects

No known significant effects or critical hazards

Section 13: Disposal considerations

13.1 Waste treatment measures

Dispose of according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product: No data available

Section 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number	n/a	n/a	n/a
14.2 UN proper shipping name	n/a	n/a	n/a
14.3 Transport hazard class(es)	n/a	n/a	n/a
14.4 Packing group	n/a	n/a	n/a
14.5 Environmental hazards	No	No	No
14.6 Special precautions for user	n/a	n/a	n/a
14.7 Transport in bulk according to Annex II of MARPOL7 3/78 and IBC code			

Not available

Section 15: Regulatory information

15.1 Safety health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV – List of substances subject to authorisation Substances of very high concern: None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not Applicable

15.2 Chemical Safety Assessment

No data available

Section 16: Other information

Changes: Update to comply with change in formulation

The above information is believed to be correct but does not profess to be comprehensive and should only be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product when used for the intended purpose and with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product and Bellingham + Stanley Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.