

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Product details: Calibration Powder

Product name: Zero Calibration Powder for DO₂ Probes

Part number: 983 030

Supplier:

Bibby Scientific Ltd
Beacon Road
Stone
Staffordshire
ST15 0SA
England

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Further information obtainable from: Health & Safety.

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation:

Description: Mixture of the substances listed below with nonhazardous additions.

Description:	Identification Number(s)
Sodium sulphite anhydrous	CAS Number: 7757-83-7, EC-No.: 231-821-4

Dangerous components: Void

Additional information: For the wording of the listed risk phrases refer to section 16.

3.0 HAZARDS IDENTIFICATION

Hazard Description:

Not classified as dangerous according to EC directives.

4.0 FIRST AID MEASURES

General Information:

After inhalation: Remove from exposure, rest and keep warm. In severe cases, OBTAIN MEDICAL ATTENTION.

After skin contact: Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use. In severe cases, OBTAIN MEDICAL ATTENTION.

After eye contact: Irrigate thoroughly with water for at least 10minutes. If discomfort persists, OBTAIN MEDICAL ATTENTION.

After swallowing: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

5.0 FIRE FIGHTING MEASURES

Special risks:

Not combustible.

The following may develop in event of fire: sulphur dioxides.

Suitable extinguishing agents:

Water spray, foam, dry powder or carbon dioxide

6.0 ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Wear appropriate protective clothing.

Measures for cleaning/collecting: Mix with sand, transfer carefully to container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

For large spillages, liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

Version Number B, According to 91/155 EC, Reviewed 25/10/2010

7.0 HANDLING AND STORAGE

Handling: PPE must be worn. See section 8.

Information for safe handling: Avoid contact with skin and eyes. Do not breathe dust. Change contaminated clothing. Wash hands after working with substance.

Storage:

Requirements to be met by storerooms and receptacles: Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace: None assigned

Personal protective equipment:

General protective and hygienic measures:

As appropriate to the situation and the quantity handled.

Respiratory protection: Dust respirator required when dusts are generated.

Ventilation: Extraction hood

Protection of hands: Gloves

Material of gloves: Rubber or plastic

Eye protection: Goggles or face shield

Other precautions: plastic apron, sleeves, boots – if handling large quantities.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

Form: solid

Colour: white

Odour: slightly pungent

Melting point/Melting range: >500°C (decomposes)

Boiling point/Boiling range: decomposes

Density at 20°C: 2.63g/ml

Solubility in/Miscibility with water: very soluble (220g/l, 20°C)

pH value 9.7 (50g/l H₂O)

Log P (o/w): -4 (25°C)

10.0 STABILITY AND REACTIVITY

Thermal decomposition/conditions to be avoided: Sensitive to moisture.

Substances to be avoided: acids, oxidizing agents.

Dangerous products of decomposition: sulphur dioxide

11.0 TOXICOLOGICAL INFORMATION

After inhalation: coughing, depressed respiration

After skin contact: may irritate.

After eye contact: local irritation symptoms

After ingestion: gastrointestinal complaints, diarrhoea. In high doses: CNS disorders, death

Additional toxicological information:

LD50 2610 mg/kg (oral, rat)

LD50 820 mg/kg (oral, mouse)

12.0 ECOLOGICAL INFORMATION

General notes:

Adverse ecological effects cannot be excluded in the event of improper handling or disposal.

Further ecological data:

LC50 (L.idrus) 220-460mg/l/96h

EC50 (Daphnia magna) 273 mg/l/48h

COD 0.125g/g

13.0 DISPOSAL CONSIDERATIONS

Product:

Recommendation: Chemical residues are generally classified as hazardous or special waste, and as such are covered by regulations, which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company.

Uncleaned packaging:

Recommendation: Rinse out empty containers thoroughly before returning for recycling.

14.0 TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RID-GGVS/E class: -

Maritime transport IMDG:

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

Transport/ Additional information:

Not dangerous according to the above specifications.

15.0 REGULATORY INFORMATION

Designation according to EU guidelines:

Not classified as dangerous according to EC directives.

16.0 OTHER INFORMATION

This MSDS should be forwarded immediately to all users of this product within your organisation. If this product is to be re-consigned to another organisation then it is your responsibility to ensure that this MSDS is sent or copied to that organisation. This data sheet must not be construed to be a risk assessment for operations involving this substance. As with any other substance, the user is advised to carry out a risk assessment when working with it. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. No responsibility can be assumed by Jenway for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices.

Department issuing MSDS: Health & Safety