

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: SODIUM METABISULPHITE
OTHER NAMES: SODIUM PYROSULPHITE, DISODIUM PYROSULPHITE, SMB POWDER
RECOMMENDED USE: PRESERVATIVE IN FOOD INDUSTRY, MINING REAGENT, ANTIOXIDANT..
SUPPLIER NAME: DELTREX CHEMICALS (ABN 92 009 657 489) A division of Campbell Brothers Ltd
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ENQUIRIES:

EMERGENCY TELEPHONE NUMBER: AUSTRALIA: **1800 628 724 (ALL HOURS)**
 INTERNATIONAL: **+ 61 7 3710 3184 (ALL HOURS)**

2. HAZARDS IDENTIFICATION

HAZARD Classified as **hazardous** according to the criteria of NOHSC.
CLASSIFICATION: **Not** classified as a dangerous good according to the criteria of ADG Code (see section 14).
 Classified as **schedule 5** according to the criteria of SUSDP (see section 15).
HAZARD CATEGORY: Xi – Irritant
RISK PHRASES: R22 – Harmful if swallowed.
 R31 – Contact with acids liberates toxic gas.
 R41 – Risk of serious eye damage.
SAFETY PHRASES: S2 – Keep out of the reach of children.
 S25 – Avoid contact with eyes.
 S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S39 – Wear eye/face protection.
 S46 – If swallowed, seek medical advice immediately and show this container or label.

The information contained in this MSDS is specific to the product when handled and used neat. This product when diluted may not require the same control measures as the neat product. Check with your technical representative if in doubt.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	PROPORTION (% w/w)
<i>The ingredients below are considered either hazardous, dangerous goods or poison scheduled according to the criteria of NOHSC, ADG Code and SUSDP (respectively) at the levels used in the product.</i>		
Sodium metabisulphite	7681-57-4	> 97.5%

*The ingredients below are **not** considered either **hazardous, dangerous goods or poison scheduled** according to the criteria of NOHSC, ADG Code and SUSDP (respectively) at the levels used in the product.*

4. FIRST AID MEASURES

INGESTION:	For advice, contact a Poisons Information Centre (Phone Australia 131126, New Zealand 0800 764 766) or a doctor. If swallowed, do NOT induce vomiting.
EYE CONTACT:	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
SKIN CONTACT:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor.
INHALATION:	Remove from source of exposure to fresh air. Seek medical assistance if the effects persist. ** SHOW THIS SAFETY DATA SHEET TO A DOCTOR **
FIRST AID FACILITIES:	Potable water should be available to rinse eyes or skin. Provide eye baths and safety showers.
NOTES TO PHYSICIAN:	Treat symptomatically.

5. FIRE FIGHTING METHODS

SUITABLE EXTINGUISHING MEDIA:	Water spray, foam, carbon dioxide or dry chemical powder.
HAZARDS FROM COMBUSTION:	The product is non-combustible but may generate toxic sulphur dioxide gas in fire conditions. The packaging material may burn to emit noxious fumes.
PRECAUTIONS FOR FIRE FIGHTERS AND SPECIAL PROTECTIVE EQUIPMENT:	Fire fighters should wear self-contained breathing apparatus to minimise risk of exposure to vapour or products of combustion.
HAZCHEM CODE:	None.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES:	Spillages are slippery. Ensure adequate ventilation, work up wind or increase ventilation. Keep spectators away – rope off the area. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and inhalation of mists.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:	Contain the spill and prevent run off into confined areas, drains and waterways. Absorb with dry earth, sand or other non-combustible material. Collect and seal in properly labelled drums for disposal in an area approved by local authority by-laws. Wash area down with excess water to remove residual material, preventing runoff to drains. Incineration of disposed material is not recommended, as it is unlikely to adequately burn.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Keep containers closed at all times - check regularly for leaks or spills. Transport and store upright. Avoid eye contact and repeated or prolonged skin contact and breathing in mists. Do not eat, drink or smoke in contaminated areas. Always remove contaminated clothing and wash hands before eating, drinking, smoking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
CONDITIONS FOR SAFE STORAGE:	Store in the original container, in a cool, dry, well-ventilated area out of sunlight and away from heat, incompatible materials and foodstuffs. Keep containers closed when not in use to ensure contamination does not occur- check regularly for leaks. Do not combine part drums of the same product, as this may be a source of contamination. Do not mix with other chemicals, especially acids. This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS:	No value assigned by NOHSC for this specific material, however, exposure standards for the hazardous ingredient and possible breakdown products as published by NOHSC are: T.W.A. for Sodium Metabisulphite = 5 mg/m ³ T.W.A. for Sulphur Dioxide = 5.2 mg/m ³ (2 ppm) S.T.E.L. for Sulphur Dioxide = 13 mg/m ³ (5 ppm)
BIOLOGICAL LIMIT VALUES:	No biological limit allocated.
ENGINEERING CONTROLS:	Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. If inhalation risk exists, use with local exhaust ventilation or while wearing a respirator. Keep containers closed when not in use.

PERSONAL PROTECTIVE EQUIPMENT: Protective equipment must be worn at all times. Risk assessments should always be conducted to identify the hazards and in turn determine the appropriate personal protective equipment for the hazard.

EQUIPMENT: Protective gloves: elbow-length nitrile or PVC impervious gloves. Always check with the glove manufacturer or your personal protective equipment supplier regarding the correct type of glove to use. Consult AS/NZS 2161 for further information.

Eye protection: safety glasses/goggles with side shield protection and/or full-face shield. Consult AS/NZS 1336 and AS/NZS 1337 for further information.

Clothing and footwear: waterproof apron, coveralls, trousers, long sleeved shirt, closed in shoes and/or safety footwear. Consult AS/NZS 2210 and AS/NZS 2919 for further information.

Respiratory Protection: Avoid breathing mist, sprays or vapours. Where ventilation is not adequate, respiratory protection may be required. Any air-purifying respirator with a particulate and/or gas filters or any chemical cartridge respirator with cartridge(s) providing protection against the compounds of concern meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: White crystals or powder.

ODOUR: Sulphur dioxide odour.

PH (50% SOLUTION): 3.5 - 5.0

SPECIFIC GRAVITY OR DENSITY: S.G. 1.40 / Bulk Density 1000 - 2000 kg/m³

VAPOUR PRESSURE: No information available.

PERCENT VOLATILES: No information available.

BOILING POINT / RANGE: No information available.

FREEZING / MELTING POINT: MP >150°C

SOLUBILITY: Soluble in water (650 g/L) and glycerol. Slightly soluble in alcohol.

FLASH POINT: No known fire hazard.

FLAMMABILITY LIMITS: No information available.

IGNITION TEMPERATURE: No information available.

SHELF LIFE: 2 years from manufacturing date (when stored as directed).

OTHER – MOLECULAR FORMULA: Na₂S₂O₅

DECOMPOSITION POINT: 120°C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use. The shelf life is 2 years.

CONDITIONS TO AVOID: Do not combine part drums of the same product, as this may be a source of contamination. Avoid exposure to excess heat.

INCOMPATIBLE MATERIALS: Oxidising substances, acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes to sulphur dioxide. The packaging material may burn to emit noxious fumes.

HAZARDOUS REACTIONS: Reaction with acids and oxidising agents may generate sulphurous odours and toxic sulphur dioxide.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE EFFECTS

INGESTION: No adverse effects expected, however large amounts may cause nausea, abdominal pain and vomiting. Capable of causing irritation if swallowed.
Sulphite-sensitive individuals (e.g. asthmatics) may experience a severe allergic reaction.

EYE CONTACT: Severe eye irritant and if left untreated may cause severe damage which may result in permanent injury. Symptoms include stinging pain, tearing, redness and swelling of eyes.

SKIN CONTACT: Capable of causing irritation with long and repeated skin contact.

INHALATION: Vapours, mists and sprays are capable of causing irritation. Sulphite-sensitive individuals (e.g. asthmatics) may experience a severe allergic reaction.

LONG TERM EFFECTS: The product can sensitise the skin and/or respiratory tract of allergic individuals.

ACUTE TOXICITY / CHRONIC TOXICITY: No toxicity data for this specific product, however toxicity data for the hazardous ingredient is listed below.
TOXICITY DATA FOR SODIUM METABISULPHITE:
Oral LD₅₀ (rat) 2480 mg/kg

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Avoid contaminating waterways.
ECOTOXICITY DATA FOR SODIUM METABISULPHITE:
Inorganic compound which cannot be eliminated from effluent treatment plants by biological purification processes. The product may lead to a high chemical consumption of oxygen in biological sewage works or natural waters and have a negative impact on aquatic organisms.
Toxicity to fish: LC₅₀ (Salmo gairneri) 15-220 mg/L/96 hr
Toxicity to bacteria: EC/LC₅₀ (Pseudomonas putida) 56 mg/L/17 hr

PERSISTENCE AND DEGRADABILITY: This product has no organic components thus AS4531 is not applicable.

MOBILITY: Octanol/water partition coefficient for Sodium Metabisulphite: Log POW -3.7

OTHER: Chemical Oxygen Demand for Sodium Metabisulphite: C.O.D. 165 mg/g

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Empty containers should be forwarded to an approved agent for recycling. Avoid unauthorised discharge to sewer.

SPECIAL PRECAUTIONS FOR LANDFILL OR INCINERATION: The product is suitable for disposal by landfill through an approved agent. Incineration of the product is not recommended, as it is unlikely to adequately burn.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT: Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

UN NUMBER: NONE

UN PROPER SHIPPING NAME: NONE

CLASS AND SUBSIDIARY RISK(S): NONE

PACKAGING GROUP: NONE

HAZCHEM CODE: NONE

INITIAL EMERGENCY RESPONSE GUIDE: NONE

SEGREGATION DANGEROUS GOODS: NONE

MARINE TRANSPORT: Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN NUMBER: NONE

UN PROPER SHIPPING NAME: NONE

CLASS AND SUBSIDIARY RISK(S): NONE

PACKAGING GROUP: NONE

STOWAGE AND SEGREGATION: NONE

AIR TRANSPORT: Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) for transport by air.

UN NUMBER: NONE

UN PROPER SHIPPING NAME: NONE

CLASS AND SUBSIDIARY RISK(S): NONE

PACKAGING GROUP: NONE

ERG CODE: NONE

15. REGULATORY INFORMATION

POISONS SCHEDULE (AUST.):	5
APVMA STATUS:	Not relevant.
TGA STATUS:	Not relevant.
AICS STATUS:	All the constituents of this product are listed.
AQIS STATUS:	Not relevant.
OTHER:	Not relevant.

16. OTHER INFORMATION

GENERAL INFORMATION: This product is water based and is fully soluble in water. DO NOT mix with acids or oxidising agents as sulphurous odours may be released.

MSDS ISSUE NUMBER: 002

MSDS ISSUE DATE: 2 NOVEMBER 2006

In any event, the review and, if necessary, the re-issue of a MSDS shall be no longer than 5 years after the last date of issue.

Electronic versions of the MSDS's in a PDF format are also available on our Website at www.deltrex.com.au

REASON(S) FOR ISSUE: 002: Update to conform to requirements of NOHSC:2011(2003); 16-header format.

THIS ISSUE NUMBER REPLACES ALL PREVIOUS ISSUES.

LITERARY REFERENCE:

SOURCES FOR DATA:

LEGEND:	
AICS	Australian Inventory of Chemical Substances
APVMA	Australian Pesticides and Veterinary Medicines Authority
AQIS	Australian Quarantine and Inspection Service
AS	Australian Standard (as issued by Standards Australia)
ERP Code	Emergency Response Drill Code as found in the ICAO (International Civil Aviation Organisation) Doc 9481
MSDS	Material Safety Data Sheet
NOHSC	National Occupational Health and Safety Commission
STEL	Short Term Exposure Limit - A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.
TGA	Therapeutic Goods Administration
TLV	Threshold Limit Value - TLV is a proprietary name registered by the American Conference of Governmental Industrial Hygienists (ACGIH) and refers to airborne concentrations of substances or levels of physical agents to which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect.
TWA	Time Weighted Average - The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

This MSDS has been prepared from current technical data and summarises at the date of issue our best knowledge of the health and safety information of the product, and in particular how to safely handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

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End of MSDS