

Material Safety Data Sheet

IDENTIFICATION

TRADE NAME :	Sodium bisulfite
OTHER NAMES :	Sodium acid sulfite
U.N. NO. :	None Allocated
DG CLASS :	None Allocated.
SUB RISK :	None Allocated
HAZCHEM :	None Allocated
POISON SCHEDULE :	Schedule 5
USES :	Preservative in food industry, mining reagent.

PHYSICAL DESCRIPTION/ PROPERTIES

Appearance : White crystals or powder with sulphur dioxide odour.

Melting Point : >300°C

Boiling Point : No data available

Vapour Pressure : No data available

Flash Point : No data available

Specific Gravity (20°C) : 1.48

Bulk Density (kg/m³) : 1000 - 2000

Flammability Limits : No data available

Solubility in water : 650g/L

OTHER PROPERTIES

Autoignition Temperature : No data available

pH (50%solution) : 4.5 - 5.0

Decomposition Point : 120°C

Solubility : Soluble in water and glycerol. Slightly soluble in alcohol

Formula : NaHSO₃

INGREDIENTS

Chemical Name	CAS Number
Proportion Sodium Metabisulphite	7631-90-5
Other ingredients not considered hazardous by Worksafe Australia to 100%	

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

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

ACUTE EFFECTS -

SWALLOWED: Swallowing large amounts may cause nausea, vomiting and abdominal pain.

EYE: A Moderate to severe eye irritant.

SKIN: Contact with skin may result in moderate irritation.

INHALED: Exposure to dust will result in respiratory irritation. Under certain

circumstances, sulphur dioxide may be generated which will also irritate the respiratory tract.

CHRONIC EFFECTS: THIS PRODUCT CAN SENSITISE THE SKIN AND/OR RESPIRATORY TRACT OF ALLERGIC PERSONS.

FIRST AID

SWALLOWED: Rinse mouth with water. Give water to drink. Do NOT induce vomiting. Seek immediate medical attention.

EYE: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical assistance.

SKIN: Remove all contaminated clothing including footwear, launder before re-use. Wash affected areas thoroughly with mild soap and water. Seek medical assistance.

INHALED: Remove from contaminated area immediately. Avoid becoming a casualty. If not breathing apply artificial resuscitation. Experienced person may administer oxygen if breathing is difficult. Immediately transport to a hospital or doctor.

ADVICE TO DOCTOR

Treat symptomatically

PRECAUTIONS FOR USE

EXPOSURE STANDARDS

TWA: 5 mg/m³

As published by National Occupational Health and Safety Commission (Worksafe Australia).

ENGINEERING CONTROLS

Ensure ventilation is adequate to maintain air concentrations below exposure standards. Use good housekeeping practices. Avoid generating dust. Use with local exhaust ventilation or while wearing dust respirator.

PERSONAL PROTECTION

Avoid skin and eye contact and inhalation of dust. Ensure safety shower and eye bath facilities are available. Wear overalls, goggles, gloves and an approved dust mask if air concentrations are high or unknown. Always wash hands before eating, drinking, smoking or going to the toilet.

FLAMMABILITY

Non combustible material.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in a cool, dry, well ventilated place away from direct sunlight. Do not store near oxidising agents and acids. Not defined as a dangerous good by the Australian Code for the Transport of Dangerous Goods by Road & Rail.

SPILLS

Wear appropriate protective clothing to prevent skin and eye contact and inhalation of dust. Cover with damp absorbent (inert material, sand or soil). Sweep up but avoid generating dust. Collect and seal into properly labelled drums for disposal or re-use. Wash area with large quantities of water. Prevent from entering streams, rivers or watercourses.

DISPOSAL

Dispose at an approved waste facility. Refer to state land waste management authority.

FIRE/EXPLOSION HAZARDS

Not combustible. Decomposes on heating emitting toxic gases including those of sulphur dioxide.

Fire fighters to wear self contained breathing apparatus and full protective clothing if risk of exposure to products of decomposition.

OTHER INFORMATION AND REFERENCES

REACTIVITY DATA

Slowly oxidises to sulfate upon exposure to air and moisture. Will react with acids, oxidising agents, sodium nitrate and sodium nitrite. Decomposes producing sulphur dioxide.

TOXICITY

Oral LD50 (rat): 2480 mg/kg

Hazard Category: Irritant

RISK PHRASES

R36/37: Irritating to eyes and respiratory system.

R31: Contact with acids liberates toxic gases.

SAFETY PHRASES

S22: Do not breathe dust.

S25: Avoid contact with eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

CONTACT POINT

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. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace.