

1. Product and Company Information

Product Name: pH Decrease Granules

Other Names: Sodium Bisulphate

Recommended use of the chemical and restrictions on use: Decreasing the pH in swimming pools.

Street Address: 54a Hewletts Road

Mt Maunganui South

New Zealand

Telephone Number: +647 5758471

Emergency Telephone: 0800 764 766(ALL HOURS) – National Poisons Centre

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

2. Hazard Data

Hazardous according to criteria of NOHSC / ASCC

Risk Phrases: R 41 (Risk of serious eye damage)

Safety Phrases: S2 (Keep out of reach of children)

S24 (Avoid contact with skin) \

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

ERMA New Zealand approval code HSR002503

HSNO hazard classification: 6.1E 6.3A 8.1A 8.3A

3. Composition

Chemical Name: Sodium Bisulphate

CAS Number: 7681-38-1

Percentage Number: >92%

4. First Aid Measures

Description of necessary measures according to routes of exposure.

Swallowed:

Do NOT induce vomiting. Wash out mouth with water and give plenty of water to drink. Seek medical attention.

Eyes:

Immediately flush eyes with plenty of water holding eyelids open. Seek medical attention.

Skin:

Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation persists, seek medical attention.

Inhaled:

Remove victim from exposure to fresh air. If breathing difficult, apply artificial respiration as needed. Seek medical attention.

Advice to Doctor:

Treat symptomatically based on individual reactions of patient and judgment of doctor.

NOTE: For advice in an emergency, contact a Poisons Information Centre New Zealand **0800-764-766**.

Aggravated medical:

No information available on medical conditions which are aggravated by exposure to this product. However, in contact with water the product forms sulphuric acid that can cause burns.

5. Fire Fighting Measures

Extinguishing Media:

In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions. Never use a water spray.

Hazards from Combustion Products:

Non-combustible solid. Avoid generating dust. Incompatible with water and sources of ignition. Poisonous sulphur dioxide vapours form when heating to decomposition. In contact with water, the product hydrolyses and forms an acid solution which is corrosive. Watery solution corrodes metals with release of hydrogen which is a flammable gas and forms an explosive mixture with air.

Special Protective Precautions and Equipment for Fire Fighters:

Fire fighters should wear a self-contained breathing apparatus and full protective clothing along with protective equipment.

Flammability Conditions:

Product is a non-flammable solid.

Hazchem Code NIA

6. Accidental Release Measures

Emergency Procedures:

Personnel involved in the clean-up should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Ensure that walking surfaces are not slippery before walking on them. Do not allow product to reach drains, sewers or waterways. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management Authority. Use spark-proof tools and equipment.

Methods and Materials for Containment and Clean Up:

Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and hold for safe disposal. Do NOT rinse away with water.

7. Handling and Storage

Precautions for Safe Handling:

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment.

Conditions for Safe Storage (Including any compatibles):

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials including water and sources of ignition. Protect from moisture. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.

Container Type

Packaging must comply with requirements of Hazardous Substances (Packaging) Regulations 2001. Store in original packaging as approved by manufacturer.

8. Exposure Controls / Personal Protection

National Exposure Standards:

No exposure standard has been established for this product by the Australian Safety and Compensation Council I (ASCC) formerly known as NOHSC. However, the exposure standard for dust not otherwise specified is 10mg/m³ (for inspirable dust) and 3mg/m³ (for respirable dust).

Biological Limit Values:

No information available on biological limit values for this product.

Engineering Controls:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection:

RESPIRATOR: Wear an approved, suitable respirator if engineering controls are inadequate (AS1715/1716).

EYES: Safety glasses with side shields (AS 1336/1337). **HANDS:** PVC or neoprene gloves (AS21§1).

CLOTHING: Impervious coveralls and safety footwear (AS3765/2210).

9. Physical and Chemical Properties

Appearance	White or light yellow powder, or crystals.
Formula	NaHSO ₄
Odour	Odourless
Vapour	Pressure negligible
Vapour density	Not Applicable
Boiling Point	Not Applicable
Melting Point	851 Deg C
Solubility in Water	1080g/L
Specific Gravity	1.4-1.5kg/L (Water= 1)

Flash Point	Not Applicable
pH	1.3 (1.2% solution)
Rate of Solid Materials	Fire Accelerant
Decomposition Temperature	No data available
Additional Information	Watery solution corrodes metals with release of flammable hydrogen.

10. Physical and Chemical Properties

Chemical Stability:

Product is stable under normal conditions of use, storage and temperature.

Conditions to Avoid:

Avoid excessive heat, dusty conditions, static discharges, moisture and high temperatures.

Incompatible Materials:

Incompatible with water and sources of ignition.

Hazardous Decomposition Products:

In contact with water, the product decomposes with the formation of sulphuric acid (corrosive).

Hazardous Reactions:

No data available.

11. Toxicological Information

Toxicity Data:

Oral LD50 Rat: 2490mg/Kg Skin Irritation: Non-irritant (rabbit) Eye Irritation: Highly irritating (rabbit) Fine substance that can cause the irritation of the airways, with coughing and the contraction of the airways. In contact with water the product forms sulphuric acid that can cause burns. A watery solution has the same properties as sulphuric acid

Health Effects - Acute

Swallowed:

Ingestion may cause irritation of the digestive tract.

Eye:

Risk of serious damage to eyes.

Skin:

Highly irritating to skin, particularly in humid state.

Inhaled:

Inhalation of product dust irritates the airways.

12. Ecological Information

Eco toxicity:

No data available

Persistence and Degradability:

No information available on persistence/degradability for this product

Mobility:

Very mobile in soil.

Environmental Fate (Exposure):

Avoid contaminating drains, sewers or waterways. This product is unlikely to adversely affect the environment. Salts, acids and bases are typically diluted and neutralized when released to the environment in small quantities.

Bioaccumulative Potential:

Log Pow: -2, 2 little danger of bioaccumulation.

13. Disposal Considerations

Disposal:

Dispose of in accordance with all local, regional and government regulations. All empty packaging should be disposed of at an approved facility. Special Precautions for The waste code classification is to be carried out according to the Land Fill or Incineration European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.

14. Transport Information

Land and Sea Transport:

UN Number	Not Applicable
Shipping Name	Sodium Bisulphate
Dangerous Goods Class	Non Hazardous
Packing Group	Not Applicable
Hazchem Code	Not Applicable

15. Regulatory Information

Classified as hazardous according to the Australian Safety and Compensation Council 1 (ASCC) and Annex I

European Directive 67/548/ECC

Poisons Schedule	5
EPG	NIA
AICS Name	Sulfuric Acid, Monosodium Salt
NZ Toxic Substance	N
HSNO Hazard Classification	6.1E 6.3A 8.1A 8.3A
ERMA Approval Code	HSR002503

