

1. IDENTIFICATION

Product Name

Sodium Hydrosulphite

Other Names

Dithionous Acid, disodium salt; Sodium Dithionite; Sodium sulfoxylate

Uses

Whitening agent for industrial use.

Chemical Family

No Data Available

Chemical Formula

H204S2.2Na

Chemical Name

Sodium Hydrosulphite

Product Description

No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation

Location

Telephone

UDS Pty Ltd

3 Spireton Place Pendle Hill NSW 2145 Australia +61-2-96882022

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation

Location

Telephone

Poisons Information Centre

Westmead NSW

1800-251525

131126

Chemcall

Australia

1800-127406 +64-4-9179888

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)

No Data Available

Globally Harmonised System

Hazard Classification

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)



Hazard Categories

Self-heating Substances and Mixtures - Category 1

Acute Toxicity (Oral) - Category 4

Serious Eye Damage/Irritation - Category 2A

Pictograms





Signal Word

Danger

Hazard Statements

H251

Self-heating; may catch fire.

H302

Harmful if swallowed.

H319

Causes serious eye irritation.

EUH031

Contact with acids liberates toxic gas.

Precautionary Statements

Prevention

P235 + P410

Keep cool. Protect from sunlight.

P280

Wear eye protection/face protection.

Response P301 + P312

312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Storage

P420

Store away from other materials.

Disposal P501

Dispose of contents/container in accordance with local / regional / national /

international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Inhaled

| Chemical Entity | Formula | CAS Number | Proportion |
|----------------------|-------------------|------------|------------|
| Sodium hydrosulphite | No Data Available | 7775-14-6 | >=90 % |
| Sodium carbonate | No Data Available | 497-19-8 | >=3 - <5 % |

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed Rinse mouth with water. Give plenty of water to drink provided person is conscious. Do NOT induce vomiting. Seek

immediate medical attention.

Eye Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Take care not to rinse

contaminated water into the non-affected eye. Seek immediate medical attention.

Skin

Remove contaminated clothing. Wash affected area with plenty of Soap and water for at least 15 minutes. Seek immediate medical attention. Wash clothing before reuse.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of patient.





Medical Conditions Aggravated by Exposure

No information available on medical conditions aggravated by exposure to this product.

5. FIRE FIGHTING MEASURES

General Measures Clear fire area of all non-emergency personnel, Stay upwind, Keep out of low areas. Eliminate ignition sources, Move

fire exposed containers from fire area if it can be done without risk. Do NOT move cargo if cargo has been exposed

Flammability Conditions Substance liable to spontaneous combustion. Flammable solid. Heats spontaneously in contact with air, especially

moist air, and may ignite surrounding combustible materials.

Extinguishing Media Use dry sand or earth to smother fire. If water is the only media available, use in flooding amounts. Use water spray to

keep fire-exposed containers cool. Use water with caution and in flooding amounts.

Fire and Explosion Hazard May decompose explosively when heated or involved in a fire.

Hazardous Products of

Combustion

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. These may

include carbon monoxide, oxides of sulfur, carbon dioxide.

Special Fire Fighting Instructions Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move

fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach

waterways, drains or sewers. Store contaminated fire fighting media for treatment.

Personal Protective Equipment Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting

clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit.

Flash Point Lower Explosion Limit

Upper Explosion Limit

No Data Available No Data Available

Auto Ignition Temperature

No Data Available >100 °C

Hazchem Code

18

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Use clean, non-sparking tools and

equipment. All equipment used when handling the product must be grounded.

Clean Up Procedures Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a

suitable, labelled container and dispose of promptly as hazardous waste. Move container from spill area. Place under an inert atmosphere. Do not get water inside containers. Control runoff and isolate discharged material for proper

disposal.

Containment Stop leak if safe to do so. Isolate the danger area.

Environmental Precautionary

Measures

Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental

Protection Authority or your local Waste Management.

Evacuation Criteria Evacuate all unnecessary personnel.

Personal Precautionary Measures Personnel involved in the clean up should wear full protective clothing as listed in section 8. Air-supplied masks are

recommended to avoid inhalation of toxic material.

7. HANDLING AND STORAGE

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. Avoid contact with eyes, skin and clothing. Do not inhale

product vapours. Avoid ingestion and inhalation. Use only in a well-ventilated area. Minimize dust generation and accumulation. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from heat, sparks and flame. Handle under an inert atmosphere. Do not allow contact with water. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Keep from contact

with moist air and steam.

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for Storage

deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.





Keep away from food, drink and feed. Incompatible materials: Keep away from water or from damp surroundings. Keep away from acids. This product has a UN Classification of of 1384 and a Dangerous Goods Class 4.2 (Flammable Solid) according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container

Container type/packaging must comply with all applicable local legislation. Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No exposure standard has been established for this product by the Safe Work Australia (SWA).

However, the exposure standard for dust not otherwise specified is 10mg/m3 (for inspirable dust) and 3mg/m3 (for

respirable dust).

NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when

calculated over a normal 8 hour working day for a 5 day working week.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Exposure Limits No Data Available

Biological Limits No information available on biological limit values for this product.

Engineering Measures 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. Use explosion-proof ventilation.

Personal Protection Equipment RESPIRATOR: Filtering Half-face mask (DIN EN 149) (AS1715/1716).

EYES: Wear appropriate protective eyeglasses or chemical safety goggles (AS1336/1337).

HANDS: Wear appropriate protective gloves (AS2161).

CLOTHING: Long-sleeved protective coveralls and safety footwear (AS3765/2210).

Work Hygienic Practices No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Crystalline Powder

 Odour
 None

 Colour
 White

 pH
 7.5 - 10 1%

 Vapour Pressure
 No Data Available

Relative Vapour Density 2.3

Boiling PointNo Data AvailableMelting PointNo Data AvailableFreezing PointNo Data Available

Solubility 19.1 %

Specific GravityNo Data AvailableFlash PointNo Data Available

Auto Ignition Temp >100 °C

Evaporation RateNo Data AvailableBulk DensityNo Data AvailableCorrosion RateNo Data Available

Decomposition Temperature >90 °C
Density 0.8 - 1.1

 Specific Heat
 No Data Available

 Molecular Weight
 174.10 g/mol

 Net Propellant Weight
 No Data Available

 Octanol Water Coefficient
 No Data Available





Particle Size No Data Available **Partition Coefficient** No Data Available Saturated Vapour Concentration No Data Available Vapour Temperature No Data Available No Data Available Viscosity Volatile Percent No Data Available **VOC Volume** No Data Available Additional Characteristics No Data Available Potential for Dust Explosion No Data Available Fast or Intensely Burning No Data Available Characteristics

Flame Propagation or Burning Rate of Solid Materials No Data Available

Non-Flammables That Could Contribute Unusual Hazards to a No Data Available

Fire
Properties That May Initiate or

Contribute to Fire Intensity

No Data Available

Vapours

Reactions That Release Gases or No Data Available

vapouis

Release of Invisible Flammable

Vapours and Gases

No Data Available

10. STABILITY AND REACTIVITY

General Information Flammable Solid.

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

Conditions to Avoid Avoid Avoid ignition sources, dust generation, exposure to air, excess heat, moisture, high humidity.

Materials to Avoid Sodium nitrite, sodium nitrate, ammonium nitrate, sodium peroxide, sodium chlorate, hydrogen peroxide

Hazardous Decomposition

Products

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. These may

include carbon monoxide, oxides of sulfur, carbon dioxide.

Hazardous Polymerisation Hazardous Polymerisation has not been reported.

11. TOXICOLOGICAL INFORMATION

General Information Toxicological information of the main substances found in the mixture:

sodium dithionite; sodium hydrosulphite - CAS: 7775-14-6

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5.5 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 2500 mg/kg

sodium carbonate - CAS: 497-19-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2800 mg/kg

Test: LC50 - Route: Inhalation - Species: Mouse = 1.2 mg/l - Duration: 2h Test: LC50 - Route: Inhalation - Species: Rat = 2.3 mg/l - Duration: 2h

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Ingestion May cause nausea, vomiting, abdominal pain, and increased salivation. Harmful if swallowed.

Carcinogen Category No Data Available

12. ECOLOGICAL INFORMATION





Ecotoxicity Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 62.3 mg/l - Duration h: 96 Endpoint: EC50 - Species: Algae = 206.2 mg/l - Duration h: 72 Endpoint: EC50 - Species: Daphnia = 98.3 mg/l - Duration h: 48

sodium carbonate - CAS: 497-19-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 300 mg/l - Duration h: 96

Endpoint: EC50 - Species: Crustaceans = 200-227 mg/l - Duration h: 48

Persistence/Degradability

Not available

Mobility

No information available on mobility for this product.

Do NOT let product reach waterways, drains and sewers.

Environmental Fate
Bioaccumulation Potential

No information available on bioaccumulation for this product.

Environmental Impact

No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in

accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill

Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

Class 4.2 Flammable Solids - Substances liable to spontaneous combustion

Subsidiary Risk(s) No Data Available

EPG 25 Spontaneously Combustible Substances (Air And/Or Water Reactive)

 UN Number
 1384

 Hazchem
 1S

 Pack Group
 II

Special Provision No Data Available

Sea Transport

IMDG Code

Proper Shipping Name SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

Class 4.2 Flammable Solids - Substances liable to spontaneous combustion

Subsidiary Risk(s) No Data Available

 UN Number
 1384

 Hazchem
 1S

 Pack Group
 II

Special Provision No Data Available

EMS FA,SJ Marine Pollutant No

Air Transport

IATA





Proper Shipping Name SODIUM DITHIONITE (SODIUM HYDROSULPHITE)

Class 4.1 Flammable Solids
Subsidiary Risk(s) No Data Available

 UN Number
 1384

 Hazchem
 1S

 Pack Group
 II

Special Provision No Data Available

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information No Data Available
Poisons Schedule (Aust) No Data Available

National/Regional Inventories

Australia (AICS) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) Not Determined

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Not Determined

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified Not Determined

Substances)

Taiwan (NCSR)

Not Determined

USA (TSCA) Not Determined

16. OTHER INFORMATION





```
SOHYSU1000, SOHYSU1001, SOHYSU1002, SOHYSU1003, SOHYSU1004, SOHYSU1005, SOHYSU1006,
Related Product Codes
                                 SOHYSU1007, SOHYSU1008, SOHYSU1009, SOHYSU1010, SOHYSU1011, SOHYSU1012, SOHYSU1013,
                                 SOHYSU1014, SOHYSU1015, SOHYSU1016, SOHYSU1017, SOHYSU1018, SOHYSU1019, SOHYSU1020,
                                 SOHYSU1021, SOHYSU1022, SOHYSU1023, SOHYSU1024, SOHYSU1025, SOHYSU1026, SOHYSU1027,
                                 SOHYSU1028, SOHYSU1029, SOHYSU1100, SOHYSU1200, SOHYSU1400, SOHYSU2000, SOHYSU2001,
                                 SOHYSU2500, SOHYSU2700, SOHYSU3000, SOHYSU3200, SOHYSU3201, SOHYSU3202, SOHYSU3203,
                                 SOHYSU3204, SOHYSU3205, SOHYSU3206, SOHYSU3207, SOHYSU3208, SOHYSU3209, SOHYSU3210, SOHYSU3211, SOHYSU3212, SOHYSU3213, SOHYSU3214, SOHYSU3215, SOHYSU3216, SOHYSU3217,
                                 SOHYSU3218, SOHYSU3219, SOHYSU3220, SOHYSU3221, SOHYSU3500, SOHYSU3501, SOHYSU3502,
                                 SOHYSU3600, SOHYSU3700, SOHYSU3800, SOHYSU4000, SOHYSU4001, SOHYSU4002, SOHYSU4003,
                                 SOHYSU4004, SOHYSU4500, SOHYSU5000, SOHYSU5001, SOHYSU5002, SOHYSU5100, SOHYSU5500,
                                 SOHYSU6000, SOHYSU6001, SOHYSU6100, SOHYSU6200, SOHYSU6300, SOHYSU6400, SOHYSU6500, SOHYSU6600, SOHYSU6700, SOHYSU7000, SOHYSU7100, SOHYSU7200, SOHYSU7300, SOHYSU7500,
                                 SOHYSU7700, SOHYSU7701, SOHYSU8000, SOHYSU8300, SOHYSU8500, SOHYSU8501, SOHYSU8600,
                                 SOHYSU8800, SOHYSU8900, SOHYSU9000, SOHYSU9001, SOHYSU9100, SOHYSU9200, SOHYSU1800,
                                 SOHYSU1801, SOHYSU1802, SOHYSU1803, SOHYSU1804, SOHYSU1805, SOHYSU1806, SOHYSU1807,
                                 SOHYSU1808, SOHYSU1809, SOHYSU1810, SOHYSU1811, SOHYSU1812, SOHYSU1813, SOHYSU4200,
                                 SOHYSU1816, SOHYSU7101, SOHYSU7102, SOHYSU1877
Revision
Revision Date
                                 05 Dec 2014
Key/Legend
                                 < Less Than
                                 > Greater Than
                                 AICS Australian Inventory of Chemical Substances
                                 atm Atmosphere
                                 CAS Chemical Abstracts Service (Registry Number)
                                 cm<sup>2</sup> Square Centimetres
                                 CO2 Carbon Dioxide
                                 COD Chemical Oxygen Demand
                                 deg C (°C) Degrees Celcius
                                 EPA (New Zealand) Environmental Protection Authority of New Zealand
                                 deg F (°F) Degrees Farenheit
                                 a Grams
                                 g/cm³ Grams per Cubic Centimetre
                                 g/I Grams per Litre
                                 HSNO Hazardous Substance and New Organism
                                 IDLH Immediately Dangerous to Life and Health
                                 immiscible Liquids are insoluable in each other.
                                 inHa Inch of Mercury
                                 inH2O Inch of Water
                                 K Kelvin
                                 kg Kilogram
                                 kg/m³ Kilograms per Cubic Metre
                                 Ib Pound
                                 LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of
                                 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
                                 LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50%
                                 (one half) of a group of test animals.
                                 itr or L Litre
                                 m³ Cubic Metre
                                 mbar Millibar
                                 mg Milligram
                                 mg/24H Milligrams per 24 Hours
                                 mg/kg Milligrams per Kilogram
                                 mg/m³ Milligrams per Cubic Metre
                                 Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.
                                 mm Millimetre
                                 mmH2O Millimetres of Water
                                 mPa.s Millipascals per Second
                                 N/A Not Applicable
                                 NIOSH National Institute for Occupational Safety and Health
                                 NOHSC National Occupational Heath and Safety Commission
                                 OECD Organisation for Economic Co-operation and Development
                                 Oz Ounce
                                 PEL Permissible Exposure Limit
                                 Pa Pascal
                                 ppb Parts per Billion
                                 ppm Parts per Million
                                 ppm/2h Parts per Million per 2 Hours
                                 ppm/6h Parts per Million per 6 Hours
                                 psi Pounds per Square Inch
                                 R Rankine
```



RCP Reciprocal Calculation Procedure STEL Short Term Exposure Limit TLV Threshold Limit Value



tne Tonne TWA Time Weighted Average ug/24H Micrograms per 24 Hours UN United Nations wt Weight



