

Supplier UDS PTY LTD

Address 3 SPIRETON PLACE, PENDLE HILL, NSW 2145

Telephone 02 9688 2022

Emergency NSW Poisons Information Centre 13 11 26

Email consumables@udcs.com.au

Web Site www.universaldrycleaningsolutions.com.au

SAFETY DATA SHEET SODIUM HYDROSULPHITE 90% REVISION 2, DATE 17 JAN 24

Product Name Sodium Hydrosulphite 90%

Other Names Sodium dithionite

Uses Whitening agent for industrial use.

Chemical Family No Data Available
Chemical Formula H204S2.2Na

Chemical Name Dithionous acid, disodium salt

Product Description No Data Available

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled

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 1

Pictograms







Signal Word Danger

Hazard Statements H251 Self-heating; may catch fire.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

EUH031 Contact with acids liberates toxic gas.

Precautionary Statements Prevention P235 + P410 Keep cool. Protect from sunlight.

P310

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection and

suitable respirator.

Response P305 + P351 + P338 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. Immediately call a POISON

CENTRE/doctor.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P330 Rinse mouth.

Storage P407 Maintain air gap between stacks or pallets.

P420 Store separately.

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)

Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification Hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium hydrosulphite	H2O4S2.2Na	7775-14-6	74 - 90 %
Disodium disulphite	H205S2.2Na	7681-57-4	5-7%
Sodium carbonate	CH203.2Na	497-19-8	0.6 - 7%
Impurities	Unspecified	Unspecified	0.2 - 0.4 %



4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth with water. Do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician

for advice. Never give anything by mouth to an unconscious person.

Eve IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower lids. Remove contact lenses if present and easy to do. Immediately call a Poison Centre or

doctor/physician for advice.

Skin IF ON SKIN (or hair): Immediately flush skin and hair with running water for at least 15 minutes, while removing

contaminated clothing and shoes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical

advice/attention. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device. Administer oxygen if breathing is difficult.

Advice to Doctor Treat symptomatically. Symptoms may be delayed. Keep victim calm and warm. Ensure that medical personnel are aware

of the material(s) involved and take precautions to protect themselves. Immediate medical attention is required. Show

this safety data sheet (SDS) to the doctor in attendance.

*Most important symptoms and effects, both acute and delayed: Harmful if swallowed. Causes serious eye damage.

Exposure

Medical Conditions Aggravated by It is recommended that asthma sufferers do not come into contact with sodium hydrosulfite nor its decomposition

products as they can be adversely affected.

5. FIRE FIGHTING MEASURES

General Measures Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well

> after fire is out. Do not get water inside containers or in contact with substance. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or

discoloration of tank. ALWAYS stay away from tanks engulfed in fire.

Flammability Conditions SPONTANEOUSLY COMBUSTIBLE SUBSTANCE: Self-heating; may catch fire! May ignite on contact with moist air or

For Dithionite (Hydrosulfite/Hydrosulphite) UN1384, USE FLOODING AMOUNTS OF WATER for SMALL AND LARGE fires to **Extinguishing Media**

stop the reaction. Smothering will not work for these materials, they do not need air to burn.

*DO NOT use water unless flooding amounts are available for fire-fighting.

Fire and Explosion Hazard Risk of violent reaction or explosion! May burn rapidly with flare-burning effect. May react vigorously or explosively on

contact with water. May re-ignite after fire is extinguished. Containers may explode when heated.

Hazardous Products of

Combustion

Fire will produce irritating, toxic and/or corrosive gases, including oxides of Sulfur and methyl mercaptan.

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may cause pollution. Runoff may create fire or explosion hazard!

Personal Protective Equipment

Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing - It may provide

little or no thermal protection. Structural firefighters' protective clothing will only provide limited protection.

Flash Point No Data Available Lower Explosion Limit No Data Available Upper Explosion Limit No Data Available **Auto Ignition Temperature** No Data Available

Hazchem Code 15

6. ACCIDENTAL RELEASE MEASURES

Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do General Response Procedure



not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust/vapours and contact with eyes,

skin and clothing.

Clean Up Procedures For spills of Dithionite (Hydrosulfite/Hydrosulphite) UN1384, dissolve in 5 parts water; Use clean, non-sparking tools to

collect material and place it into loosely covered plastic containers for proper disposal (see SECTION 13).

*DO NOT return spilled material to original container for re-use.

Containment Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.

Decontamination Wash with plenty of water.

Environmental Precautionary

Measures

Spillages and decontamination runoff should be prevented from entering drains and watercourses. If contamination of

sewers or waterways has occurred advise local emergency services.

Evacuation Criteria Immediately isolate spill or leak area. Evacuate personnel to safe areas. Keep unauthorised personnel away. Stay upwind

and/or uphill.

Personal Precautionary Measures Wear positive pressure self-contained breathing apparatus (SCBA). Fully encapsulating, vapour-protective clothing should

be worn for spills and leaks with no fire.

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice.

Minimise dust generation and accumulation. Avoid breathing dust/vapours and contact with eyes, skin and clothing. Do
not ingest. Wear protective gloves/protective clothing/eye protection/face protection and suitable respirator (see
SECTION 8). SELF-HEATING SUBSTANCE: May catch fire! Keep cool. Do not open warm or swollen product containers.

Storage Storage Store separately in a cool, dry and well-ventilated place. Protect from sunlight. Protect from moisture. Keep dry - reacts

with water, may lead to drum rupture. Keep container tightly closed - check regularly for spills. Maintain air gap between stacks/pallets. Keep away from heat and sources of ignition - No smoking. Store away from foodstuffs and other

(incompatible) materials (see SECTION 10).

*Large quantities of the product should not be kept in stockrooms with sprinkler installations due to a possible self

inflammation by small quantities of water.

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product.

COMPONENT: Disodium disulphite (CAS No. 7681-57-4):
- Safe Work Australia Exposure Standard: TWA = 5 mg/m3.

- New Zealand Workplace Exposure Standard: TWA = 5 mg/m3 (dsen); (rsen).

Exposure Limits No Data Available

Biological Limits No information available.

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 electrical/ventilating/lighting equipment.

Personal Protection Equipment - Respiratory protection: Wear respiratory protection if exposure limits are exceeded or if irritation or other symptoms are

experienced. Recommended: Use a full face respirator with multi purpose combination or type AXBEK respirator

cartridges (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Tightly fitting safety

goggles.

- Hand protection: Wear protective gloves. Recommended: Impervious gloves, e.g. butyl rubber.

 Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Wear fire/flame resistant/retardant clothing and anti-static boots. Always wear thermal protective clothing when handling

molten substances.

Special Hazards Precaustions No information available.



Work Hygienic Practices

Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance Powder

Odour No information available.

Colour White

pH No Data Available
Vapour Pressure No Data Available
Relative Vapour Density No Data Available
Boiling Point No Data Available
Melting Point No Data Available
Freezing Point No Data Available
Solubility Soluble in water

Specific Gravity 2.38 (Sodium dithionite) Flash Point No Data Available No Data Available Auto Ignition Temp **Evaporation Rate** No Data Available **Bulk Density** No Data Available No Data Available Corrosion Rate **Decomposition Temperature** No Data Available Density No Data Available Specific Heat No Data Available Molecular Weight No Data Available 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
No Data Available
Volatile Percent
No Data Available
VOC Volume
No Data Available
No Data Available
No information available.

Potential for Dust Explosion Potential dust explosion hazard.

Fast or Intensely Burning Characteristics Risk of violent reaction or explosion! May burn rapidly with flare-burning effect. May re-ignite after fire is extinguished.

Flame Propagation or Burning Rate of Solid Materials No information available.

Non-Flammables That Could Contribute Unusual Hazards to a May react vigorously or explosively on contact with water.

Properties That May Initiate or Contribute to Fire Intensity

SPONTANEOUSLY COMBUSTIBLE SUBSTANCE: Self-heating; may catch fire! May ignite on contact with moist air or

moisture

Reactions That Release Gases or

Vapours

Decomposes on heating emitting toxic fumes, including Sulfur dioxide and methyl mercaptan.



Release of Invisible Flammable Vapours and Gases No information available.

10. STABILITY AND REACTIVITY

General Information May ignite on contact with moist air or moisture. Contact with acids liberates toxic gas.

Chemical Stability Stable under proper operation and storage conditions.

Conditions to Avoid Avoid generating dust. Avoid exposure to air and moisture/humidity. Keep away from heat and sources of ignition.

Materials to Avoid Incompatible/reactive with strong acids, strong alkalis, strong oxidants, strong reducing agents.

Hazardous Decomposition

Products

Decomposes on heating emitting toxic fumes, including Sulfur dioxide and methyl mercaptan.

Hazardous Polymerisation No information available.

11. TOXICOLOGICAL INFORMATION

General Information Information on toxicological effects:

- Acute toxicity: Harmful if swallowed.

- Skin corrosion/irritation: May cause skin irritation.

- Eye damage/irritation: Causes serious eye damage (Disodium disulphite, Sodium carbonate).

 Respiratory/skin sensitisation: May cause skin sensitisation in sensitive individuals. May cause respiratory sensitisation in sensitive individuals, producing asthma-like symptoms.

- Germ cell mutagenicity: No information available.

- Carcinogenicity: Not listed as carcinogenic according to the International Agency for Research on Cancer (IARC).

- Reproductive toxicity: No information available.

STOT (single exposure): COMPONENT: Sodium carbonate: May cause respiratory irritation.

- STOT (repeated exposure): No information available.

Aspiration toxicity: No information available.

Information on likely routes of exposure:

- Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, and abdominal pain. Extremely large amounts may

produce central nervous system stimulation, seizures, hypotension, and cardiovascular collapse.

- Eye contact: A severe eye irritant. Contamination of eyes can result in permanent injury.

- Skin contact: Contact with skin may result in irritation. May cause skin sensitisation in sensitive individuals.

Inhalation: Material may be irritant to the mucous membranes of the respiratory tract (airways).

Chronic effects: No information available.

Acute

Ingestion Acute toxicity (Oral):

COMPONENT: Disodium disulphite (CAS No. 7681-57-4):

- LD50, Rat: 1,131 mg/kg

COMPONENT: Sodium carbonate (CAS No. 497-19-8):

- LD50, Rat: 4,090 mg/kg

Other Acute toxicity (Dermal):

COMPONENT: Disodium disulphite (CAS No. 7681-57-4):

- LD50, Rat: >2,000 mg/kg

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:

COMPONENT: Sodium carbonate (CAS No. 497-19-8):



- LC50, Fish: 300 mg/l (96 h) [Supplier's SDS]. - EC50, Crustacea: 200 mg/l (48 h) [Supplier's SDS].

Persistence/Degradability No information available.

Mobility No information available.

Environmental Fate Prevent entry into drains and waterways.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of contents/container in accordance with local/regional/national regulations. Incineration disposal is

recommended.

Special Precautions for Land Fill Contaminated packaging: Containers may still present chemical hazard when empty. Keep away from heat and sources

of ignition. Recycle if possible.

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 F-A, S-J Marine Pollutant No

Air Transport IATA DGR

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

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 SODIUM HYDROSULFITE is listed in Schedule 5 of the SUSMP when packed for domestic use, except in preparations

containing 10 % or less of sodium hydrosulfite.

Poisons Schedule (Aust) Not Scheduled

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Listed

Canada (NDSL) Not Determined

China (IECSC) Listed

Europe (EINECS) Listed

Europe (REACh) Not Determined

Japan (ENCS/METI) Listed

Korea (KECI) Listed

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Listed

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Listed

USA (TSCA) Listed



16. OTHER INFORMATION

Related Product Codes SOHYSU7100, SOHYSU7101, SOHYSU7102, SOHYSU7103, SOHYSU7125, SOHYSU7200

Revision

Revision Date 17 Jan 2024

Key/Legend < Less Than

> Greater Than

AICS Australian Inventory of Chemical Substances

atm Atmosphere

2

CAS Chemical Abstracts Service (Registry Number)

cm² 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

g 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.

inHg Inch of Mercury inH2O Inch of Water

K Kelvin kg Kilogram

kg/m3 Kilograms per Cubic Metre

Ib Pound

 $\textbf{LC50} \ \text{LC} \ \text{stands for lethal concentration.} \ \text{LC50} \ \text{is the concentration of a material in air which causes the death of } 50\%$

(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

mmH20 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 Rankin

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