

SAFETY DATA SHEET

PRODUCT NAME: RESIN TREAT – SODIUM HYDROSULPHITE

Issue Date: September 22

IDENTIFICATION

Product Name: Resin Treat
Other Names: Sodium hydrosulphite; Sodium dithionite; Dithionous acid, disodium salt; Sodium sulphyxylate; Sodium sulfoxylate; CI Reducing agent 1; Strip; Hydrosulfite N Conc.
Product Code: ZSHYDR, CSHY5
Uses: Pulp and paper bleaching, clay bleaching, vat dyeing of fibers and textiles, stripping agent for dyes.
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 079744971 Web: www.hamchem.nz Email: info@hamchem.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

HAZARD IDENTIFICATION



GHS Classifications

Self-heating substance or mixture – Category 1
Acute Toxicity (oral) – Category 4
Eye Irritation – Category 2
Hazardous to the Aquatic Environment (chronic) – Category 3

Signal Word: DANGER

Hazard Statements

H251 - Self-heating; may catch fire.
H302 - Harmful if swallowed.
H319 - Causes serious eye irritation.
H412 – Harmful to aquatic life with long lasting effects.

Prevention

P235 – Keep cool.
P280 – Wear protective gloves/clothing and eye/face protection.
P264 – Wash hands thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P273 – Avoid release to the environment.

Response

P301 + P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P330 – Rinse mouth
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 – If eye irritation persists: Get medical advice/attention.

Storage

P407 – Maintain air gap between stacks or pallets

P410 – Protect from sunlight

P420 – Store separately

Disposal

P501 – Dispose of contents/container to approved waste facility in accordance with local regulations

COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (%)
Sodium Hydrosulphite	7775-14-6	≥ 90%
Sodium Carbonate	497-19-8	≥ 3% but < 5%

FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone New Zealand 0800 764 766) or a Doctor.

Inhalation: 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.

Skin Contact: 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.

Eye Contact: 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.

Ingestion: Rinse mouth with water. Give plenty of water to drink provided person is conscious. Do NOT induce vomiting. Seek immediate medical attention.

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.

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 to heat.

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 sulphur, 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 firefighting water to reach waterways, drains or sewers. Store contaminated firefighting media for treatment.

Personal Protective Equipment: Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves) or chemical splash suit.

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HamChem Ltd, 75 Ruffell Rd, Hamilton, New Zealand. Phone 07 974 4971 Email - info@hamchem.nz Web: www.hamchem.nz

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Flash Point: No Data Available

Lower Explosion Limit: No Data Available

Upper Explosion Limit: No Data Available

Auto Ignition Temperature: >100 °C

Hazchem Code: 1S

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.

HANDLING & 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.

Storage: 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 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.

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

EXPOSURE CONTROLS & PERSONAL PROTECTION
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General: No exposure standard has been established for this product by Worksafe NZ. However, the exposure standard for dust not otherwise specified is 10mg/m³ (for inspirable dust) and 3mg/m³ (for respirable dust).

Exposure Limits: No Data Available

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

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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

PHYSICAL & 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 Point:	No Data Available
Melting Point:	No Data Available
Freezing Point:	No Data Available
Solubility:	19.1 %
Specific Gravity:	No Data Available
Flash Point:	No Data Available
Auto Ignition Temp:	>100 °C
Evaporation Rate:	No Data Available
Bulk Density:	No Data Available
Corrosion Rate:	No 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
Viscosity:	No Data Available
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 Characteristics:	No Data Available
Flame Propagation or Burning Rate of Solid Materials:	No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire:	No Data Available
Properties That May Initiate or Contribute to Fire Intensity:	No Data Available
Reactions That Release Gases or Vapours:	No Data Available
Release of Invisible Flammable Vapours and Gases:	No Data Available

STABILITY & REACTIVITY

General Information: Flammable Solid.

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

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Conditions to 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 sulphur, carbon dioxide.

Hazardous Polymerisation: Hazardous Polymerisation has not been reported.

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

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.

Environmental Fate: Do NOT let product reach waterways, drains and sewers.

Bioaccumulation Potential: No information available on bioaccumulation for this product.

Environmental Impact: No Data Available

DISPOSAL CONSIDERATIONS

General Information: Dispose of in accordance with all local, regional and national regulations. All empty packaging should be disposed of in accordance with local, regional and national regulations or recycled/reconditioned at an approved facility.

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Special Precautions for Land Fill: Contact a specialist disposal company or the local waste regulator for advice.

TRANSPORT INFORMATION

UN No: 1384
Class-primary 4.2 Flammable Solids - Substances liable to spontaneous combustion
Packing Group: II
Proper Shipping Name: SODIUM DITHIONITE (SODIUM HYDROSULFITE)
Hazchem Code: 1S

REGULATORY INFORMATION

HSNO Classifications: 4.2B, 6.1D (O), 6.4A, 9.1C

EPA Approval code: HSR002522 – Class 4 Substances Group Standard 2020

Restrictions: Sodium Dithionite is Restricted to Workplace as it is classified as a 'Self-heating substance and mixtures – Category 1' (4.2B) as per the 'Hazardous Substances (Hazardous Property Controls) Notice 2017'.

OTHER INFORMATION

End of SDS.