

## **Section 1. IDENTIFICATION**

<b>Product Name:</b>	<b>ANTI CHLOR</b>
<b>Other Names:</b>	Sodium Pyrosulfite; Sulfurous Acid, Monosodium Salt; SULPHUROUSACID, MONOSODIUM SALT, Sodium Bisulphite 30-60% Solution
<b>Uses:</b>	Industrial waste water treatment, Pulp Bleaching, food additive, Metal Plating
<b>Chemical Family:</b>	No Data Available
<b>Chemical Formula:</b>	NaHSO <sub>4</sub>
<b>Chemical Name:</b>	<b>Sodium Bisulphite 30-60% Solution</b>
<b>Product Description:</b>	No Data Available


## **CONTACT DETAILS OF THE SUPPLIER OF THIS SAFETY DATA SHEET**

<b>Business:</b>	Colonial Chemicals Australia
<b>Address:</b>	Skewes Road, Bendemeer, NSW, AUSTRALIA,2355
<b>Postal Address:</b>	P.O Box 167 Moonbi, NSW,2353
<b>Phone:</b>	02 67 696 658 <b>Mobile:</b> 0427 696658 <b>Fax:</b> 02 57015137
<b>Email:</b>	<a href="mailto:admin@colonialchemicals.com.au">admin@colonialchemicals.com.au</a>
<b>Web Site:</b>	<a href="http://www.colonialchemicals.com.au">www.colonialchemicals.com.au</a>

**Emergency Contact Details** -For emergencies only; DO NOT contact these companies for general product advice.

<b>Poisons Information Centre -Westmead NSW</b>	<b>131126 or 1800-251525</b>
<b>Chemcall Australia</b>	<b>1800-127406</b>

## **Section 2. HAZARD IDENTIFICATION**

<b>Poisons Schedule (Aust)</b>	Not scheduled
<b>Globally Harmonised System</b>	
<b>Hazard Classification</b>	<b>Hazardous</b> according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
<b>Hazard Categories</b>	Acute Toxicity (Oral) - Category 4 Serious Eye Damage/Irritation - Category 1
<b>Pictograms</b>	
<b>Signal Word</b>	Danger

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## **SAFETY DATA SHEET**

**Product: ANTI CHLOR**

**Issued by: Colonial Chemicals Australia**

**Issue date: 01/12/2016**

**Phone: 02 67 696 658**

**Poisons Information Centre 131126 or Technical Officer 02 67 696 658**

## Section 2. HAZARD IDENTIFICATION (Continued)

<b>Hazard Statements</b>	<b>H302</b>	Harmful if swallowed.
	<b>H318</b>	Causes serious eye damage.
	<b>EUH031</b>	Contact with acids liberates toxic gas.
<b>Precautionary Statements</b>		
<b>Prevention</b>	<b>P270</b>	Do not eat, drink or smoke when using this product.
	<b>P264</b>	Wash hands thoroughly after handling.
	<b>P280</b>	Wear eye protection/face protection.
<b>Response</b>	<b>P301 + P312</b>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	<b>P330</b>	Rinse mouth.
	<b>P305 + P351 + P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	<b>P310</b>	Immediately call a POISON CENTER or doctor/physician.
<b>Disposal</b>	<b>P501</b>	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**      **NOT Dangerous** Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

## Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

### INGREDIENTS

Chemical Entity	Formula	CAS Number	Proportion
Water	No Data Available	7732-18-5	40.0 - 70.0 %
Sodium Bisulphite	No Data Available	7631-90-5	30.0 - 60.0 %

## Section 4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

<b>Swallowed</b>	Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If symptoms develop, seek medical attention.
<b>Eye</b>	SPEED IS ESSENTIAL Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 30 minutes, by the clock, holding the eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation persists, repeat flushing. Obtain medical attention immediately.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin or hair with running water. Continue flushing until advised to stop by the poisons information centre or doctor.
<b>Inhaled</b>	Remove victim from exposure to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish skin discolouration (suggesting a lack of blood oxygen), ensure air- ways are free of obstruction and have qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Obtain medical advice immediately.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of patient. Provide general supportive measures (comfort, warmth, rest). Consult a physician and/or the nearest Poison Information Centre for all exposures except minor instances of inhalation contact.

### Medical Conditions Aggravated by Exposure

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

However, this product is harmful if swallowed.

Long term Effects: HEALTH EFFECTS: Bronchial irritation.

CARCINOGENICITY: Not classed as a carcinogen by NOHSC.

TERATOGENICITY AND EMBRYOTOXICITY: Insufficient information

TOXICOLOGICAL SYNERGISTIC MATERIALS: Insufficient information

MUTAGENICITY: Insufficient information

POTENTIAL FOR ACCUMULATION: None

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## Section 5. FIRE FIGHTING MEASURES

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<b>General Measures</b>	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.
<b>Flammability Conditions</b>	Product is a non-flammable liquid.
<b>Extinguishing Media</b>	Suitable Extinguishing media include water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Water can be used to extinguish a fire in an area where product is stored.
<b>Hazardous Products of Combustion</b>	Special hazards arising from the substance or mixture - Sodium oxides, Sulphur oxides. Non-combustible material, but will support combustion of other products. Oxidising agent. This product and its solutions will not burn or support combustion. However, reaction with a number of commonly encountered oxidisable materials can generate sufficient heat to ignite nearby combustible materials. Packaging material may burn to emit noxious fumes. Incompatible with oxidising agents, and acids. Reaction with acids and oxidizing agents may generate sulphurous odours and toxic sulphur dioxide. Decomposes to sulfur dioxide.
<b>Personal Protective Equipment</b>	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). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. All combustion residues and contaminated water from fire-fighting should be disposed of according to regulations.
<b>Flash Point</b>	No Data Available
<b>Lower Explosion Limit</b>	No Data Available
<b>Upper Explosion Limit</b>	No Data Available
<b>Auto Ignition Temperature</b>	No Data Available
<b>Hazchem Code</b>	No Data Available

## Section 6. ACCIDENTAL RELEASE MEASURES

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<b>General Response Procedure</b>	Personnel involved in the clean up should wear full protective clothing as listed in section 8. Avoid accidents, clean up immediately. Increase ventilation. Avoid walking through spilled product as it is slippery when spilt. Stop leak if safe to do so. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment. Remove chemicals which can react with the spilled material. Spills are slippery.
<b>Clean Up Procedures</b>	Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect the material and transfer to a suitable, labelled chemical waste container and dispose of promptly as hazardous waste. Neutralise the final traces and flush a area with large volumes of water.
<b>Environmental Precautionary Measures</b>	Do not let product enter drains.
<b>Evacuation Criteria</b>	Evacuate all unnecessary personnel.

## Section 7. HANDLING AND STORAGE

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<b>Handling</b>	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. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Do NOT combine part drums of the same product, as this may be a source of contamination. Do not mix other chemicals, especially acids.
<b>Storage</b>	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. Storage class (TRGS 510): Non-combustible, corrosive hazardous materials. Protect against physical damage. Store away from incompatible materials as listed in section 10. Transport and store upright. Store out of sunlight and away from heat, and food stuffs. Ensure contamination does not occur. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
<b>Container</b>	Container type/packaging must comply with all applicable local legislation. Store in original packaging as approved by manufacturer.

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## Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	The following exposure standard has been established by The Australian Safety and Compensation Council (ASCC); Sodium Hydrogensulphite 30-50% [Sodium Bisulphite 30-50%]: TWA = 5mg/m <sup>3</sup> 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.
<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	No information available on biological limits for this product.
<b>Engineering Measures</b>	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. Administrative controls and personal protective equipment may be also required. Exhaust directly to the outside. Supply sufficient air to make up for air removed by exhaust systems.
<b>Personal Protection Equipment</b>	<p>RESPIRATOR: For EMERGENCY OR PLANNED ENTRY IN UNKNOWN CONCENTRATION or IDLH CONDITIONS: Positive pressure, full-face piece SCBA; or positive pressure, full-face piece SAR with an auxiliary positive pressure SCBA. (AS1715/1716). ABBREVIATIONS: SAR = supplied-air respirator; SCBA = self-contained breathing apparatus. IDLH = Immediately Dangerous to Life or Health.</p> <p>EYES: Splash proof chemical safety goggles. A face shield may also be necessary (AS1336/1337). HANDS: Impervious gloves (nitrile or neoprene) (AS2161). CLOTHING: Resistant protective clothing, coveralls, and safety boots (AS3765/2210). NOTE: Resistance of specific materials can vary from product to product. Evaluate resistance under conditions of use and maintain clothing carefully.</p>
<b>Work Hygienic Practices</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Pungent Liquid
<b>Odour</b>	Sulphur dioxide odour
<b>Colour</b>	Colourless to Slight Yellow
<b>pH</b>	2.5-3.0 or 3.5-5.0
<b>Vapour Pressure</b>	No Data Available
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	No Data Available
<b>Melting Point</b>	No Data Available
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	%50 25 degrees c
<b>Specific Gravity</b>	~1.35 - 1.48
<b>Flash Point</b>	No Data Available
<b>Auto Ignition Temp</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	No Data Available
<b>Corrosion Rate</b>	No Data Available
<b>Decomposition Temperature</b>	No Data Available
<b>Density</b>	No Data Available
<b>Specific Heat</b>	No Data Available
<b>Molecular Weight</b>	No Data Available
<b>Net Propellant Weight</b>	No Data Available
<b>Octanol Water Coefficient</b>	No Data Available
<b>Particle Size</b>	No Data Available
<b>Partition Coefficient</b>	No Data Available
<b>Saturated Vapour Concentration</b>	No Data Available
<b>Vapour Temperature</b>	No Data Available
<b>Viscosity</b>	No Data Available
<b>Volatile Percent</b>	No Data Available
<b>VOC Volume</b>	No Data Available
<b>Additional Characteristics</b>	No Data Available
<b>Potential for Dust Explosion</b>	PRODUCT IS A LIQUID.
<b>Fast or Intensely Burning Characteristics</b>	No Data Available
<b>Flame Propagation or Burning Rate of Solid Materials</b>	No Data Available
<b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b>	No Data Available
<b>Properties That May Initiate or Contribute to Fire Intensity</b>	No Data Available
<b>Reactions That Release Gases or Vapours</b>	No Data Available
<b>Release of Invisible Flammable Vapours and Gases</b>	No Data Available

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## Section 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Product is stable under normal conditions of use, storage and temperature.
<b>Conditions to Avoid</b>	Avoid excessive heat, direct sunlight, moisture, static discharges and high Temperatures. Do not combine part drums as this maybe a source of contamination.
<b>Materials to Avoid</b>	Incompatible with Strong acids and oxidizing agents.
<b>Hazardous Decomposition Products</b>	Reaction with acids and oxidizing agents may generate sulphurous odours and toxic sulphur dioxide. Decomposes to sulfur dioxide.
<b>Hazardous Polymerisation</b>	Reaction with acids and oxidizing agents may generate sulphurous odours and toxic sulphur dioxide.

## Section 11. TOXICOLOGICAL INFORMATION

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<b>General Information</b>	No toxicity data for this specific product, how ever toxicity data for the hazardous ingredient is listed below. Toxicity data for sodium metabisulphite Oral LD50 Rat : 2480mg/Kg More detailed information about the effects of chemicals on health can be obtained from NOHSC Australia. Carcinogenicity IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium hydrogensulphite). May cause irritation to eyes and respiratory passages to workers briefly exposed to high concentrations
<b>EyeIrritant</b>	Risk of serious eye damage. Can penetrate deeply causing irritation or severe burns depending on the concentration and duration of exposure. In severe cases ulceration and permanent damage may occur.
<b>Ingestion</b>	Harmful if swallowed. Ingestion may cause vomiting; diarrhoea; collapse, abdominal pains. Capable of causing irritation if swallowed.
<b>Inhalation</b>	Effects of inhaling vapour & mists have not been clearly established. Most references indicate that irritation of the nose, throat and lungs would occur due to the corrosive nature of the product.
<b>Skin Irritant</b>	Irritation, Severity depends on concentration and duration of exposure. Repeated or prolonged contact with dilute solutions may lead to irritant contact dermatitis.
<b>Carcinogen Category</b>	No Data Available

## Section 12. ECOLOGICAL INFORMATION

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<b>Ecotoxicity</b>	Inorganic compound which cannot be eliminated from effluent treatment plants by biological purification processes. The product may lead to a high chemical consumption of oxygen in biological sewage works or natural waters and have negative impact on aquatic organisms.
<b>Persistence/Degradability</b>	No information available on persistence/degradability for this product.
<b>Mobility</b>	No information available on mobility for this product.
<b>Environmental Fate</b>	Do NOT let product reach waterways, drains and sewers.
<b>Bioaccumulation Potential</b>	No information available on bioaccumulation for this product. PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
<b>Environmental Impact</b>	No Data Available

## Section 13. DISPOSAL CONSIDERATIONS

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<b>General Information</b>	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.
<b>Special Precautions for Land Fill</b>	Contact a specialist disposal company or the local waste regulator for advice. Decontaminate empty containers before disposal, by triple rinsing with water, using rinse water in further processing or neutralize rinse water.

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## Section 14. TRANSPORT INFORMATION

<b>Land Transport (Australia)</b>	ADG
<b>Proper Shipping Name</b>	SODIUM BISULPHITE 30-50% SOLUTION
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available

<b>Sea Transport</b>	IMDG
<b>Proper Shipping Name</b>	SODIUM BISULPHITE 30-50% SOLUTION
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>EMS</b>	No Data Available
<b>Marine Pollutant</b>	No

<b>Air Transport</b>	IATA
<b>Proper Shipping Name</b>	SODIUM BISULPHITE 30-50% SOLUTION
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available

### National Transport Commission (Australia)

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

**Dangerous Goods Classification** NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

## Section 15. REGULATORY INFORMATION

<b>General Information</b>	No Data Available
<b>Poisons Schedule (Aust)</b>	Not scheduled
<b>National/Regional Inventories</b>	
<b>Australia (AICS)</b>	Listed

## Section 16. OTHER INFORMATION

Always use product as directed. Please read all labels carefully before using product. Further information may be obtained by contacting the Technical Officer on 0267 696 658. Supplied by Colonial Chemicals Australia.

<b>SDS Revision Number:</b>	1
<b>SDS Revision Date:</b>	1st December 2016
<b>Reason for issue:</b>	UPDATED SDS (this replaces SDS version 1 dated 01/01/2013) <b>***THIS ISSUE REPLACES ALL PREVIOUS ISSUES***</b>

*In any event, the review and, if necessary, the re-issue of a SDS shall be no longer than 5 years after the last date of issue.*

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

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## Section 16. OTHER INFORMATION (Continued)

### Key legend/Abbreviations/Acronyms that may be used in this S.D.S.:

<	Less Than
>	Greater Than
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS	Australian Inventory of Chemical Substances
atm	Atmosphere
CAS	Chemical Abstracts Service (Registry Number)
cm <sup>2</sup>	Square Centimetres
CO <sub>2</sub>	Carbon Dioxide
COD	Chemical Oxygen Demand
deg C (°C)	Degrees Celcius
deg F (°F)	Degrees Farenheit
EPA (New Zealand)	Environmental Protection Authority of New Zealand
g	Grams
g/cm <sup>3</sup>	Grams per Cubic Centimetre
g/l	Grams per Litre
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially
firefighters HSNO	Hazardous Substance and New Organism
IDLH	Immediately Dangerous to Life and Health
immiscible	Liquids are insoluble in each other. inHg
	Inch of Mercury
inH <sub>2</sub> O	Inch of Water
K	Kelvin
kg	Kilogram
kg/m <sup>3</sup>	Kilograms per Cubic Metre
lb	Pound
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.
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.
ltr or L	Litre
m <sup>3</sup>	Cubic Metre
mbar	Millibar
mg	Milligram
mg/24H	Milligrams per 24 Hours
mg/kg	Milligrams per Kilogram
mg/m <sup>3</sup>	Milligrams per Cubic Metre
Misc or Miscible	Liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	Millimetre
mmH <sub>2</sub> O	Millimetres of Water
mPa.s	Millipascals per Second
N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organisation for Economic Co-operation and Development
Oz	Ounce
Pa	Pascal
PEL	Permissible Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
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
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
tne	Tonne
TWA	Time Weighted Average (TWA/ES - Time Weighted Average or Exposure Standard)
Ug/24	Micrograms per 24 Hours
UN	United Nations
Wt	Weight

END OF SDS

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