



Date: 15/09/2024
Revision 0

Safety Data Sheet

1. IDENTIFICATION

Product Name	Soda Ash Dense
Other Names	Sodium carbonate, Washing soda
Uses	Cleaning agents and additives, Detergents, pH regulating agent, Glass Manufacturing and Water treatment
Chemical Formula	Na ₂ CO ₃
Chemical Name	Disodium carbonate or calcined soda
Product Description	Alkaline salt

Supplier Information

MPL Products
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Australia
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2. HAZARDS IDENTIFICATION

Poisons Schedule (Australia) 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 Serious Eye Damage/Irritation

Hazard Statements Causes serious eye irritation

Precautionary Measures

Prevention Wash skin thoroughly after handling and Wear eye protection or face protection
Response Rinse the eyes cautiously with water for several minutes. Remove Contact lenses, if present. Continue rinsing If eye irritation persists and get medical advice

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)



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

Chemical Entity	Formula	CAS Number	Proportion
Anhydrous Sodium Carbonate	Na ₂ CO ₃	497-19-8	>=99 %

4. FIRST AID MEASURES

First Aid: If swallowed Rinse mouth, then drink plenty of water. Do not induce vomiting. Get immediate medical advice/attention. If vomiting occurs, give further water. Never give anything by mouth to an unconscious person.

First Aid: Eyes Immediately flush eyes with running water, Remove contact lenses if present. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice.

First Aid: Skin Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.

First Aid: Inhalation Move the person to source of fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice or attention. Give artificial respiration if required. Administer oxygen if breathing is difficult.

Advice to Doctor Treat symptomatically

Medical Conditions Aggravated by Exposure No information available

5. FIRE FIGHTING MEASURES

General Fire Hazards Not applicable
Flammability Conditions Non-combustible
Extinguishing Media If material is involved in a fire, use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Fire and Explosion Hazard Decomposes on heating, emitting toxic fumes
Hazardous Products of Combustion Fire or heat may produce toxic and corrosive fumes including Carbon Oxides and Sodium Oxides.



Special Fire Fighting Instructions
Personal Protective Equipment

Contain runoff from fire control or dilution water
Wear positive pressure self-contained breathing apparatus (SCBA).
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

No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure

Ensure adequate ventilation. Keep the traffic in the area of a spill to a minimum to avoid any slipping hazard. Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing

Clean Up Procedures

clean up without generating dust. Collect and seal in properly labelled containers or drums for disposal

Containment

Stop leakage if safe, prevent entry into waterways, drains or confined areas

Decontamination

After cleaning, flush away any residual traces with water.

Environmental Precautionary Measures

Prevent entry into drains and waterways. Local authorities should be advised if significant spillages cannot be contained

Evacuation Procedures

Spill or leak area should be isolated immediately. Evacuate personnel to safe areas. Keep unauthorised personnel away

Personal Precautionary Measures

Wear protective equipment to prevent skin and eye contact and breathing in dust

7. HANDLING AND STORAGE

Handling

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required. Avoid extreme heat and contact with incompatible materials.

Storage

Store in a cool, dry and well-ventilated place, out of direct sunlight. Avoid extreme heat, moisture or humidity.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No value assigned for this specific material by Safe Work Australia.
Exposure Limits	No Data Available
Biological Limits	No information available
Engineering Controls	Provide appropriate exhaust ventilation at places where dust is formed. Apply technical measures to comply with the occupational exposure limits.
Personal Protection Equipment	
Respiratory protection	Wear respiratory protection in case of inadequate ventilation, or an inhalation risk exists. Recommended: Dust mask/particulate respirator.
Eye/face protection	Wear appropriate eye protection to prevent eye contact. Recommended: Safety glasses with side shields or protective goggles.
Hand protection	Handle with gloves. Recommended: Impervious gloves, e.g. neoprene, natural rubber.
Skin/body protection	Wear appropriate personal protective clothing to avoid skin contact. Recommended: Long sleeved protective clothing, Safety shoes or boots (rubber or plastic).
Special Hazards Precautions	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	White, Granular or powder
Odour	Odourless
pH	10.3 - 11.3
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	851 °C
Freezing Point	No Data Available
Solubility	Soluble in water



Specific Gravity	2.53
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	≥ 400 °C
Total Alkali (dry basis)	99.2% min
Sodium Chloride (dry basis)	0.70% max
Iron Fraction (dry basis)	0.0035% max
Particle size(180µm residue)	75% min

10. STABILITY AND REACTIVITY

General Information	Reacts exothermically with strong acids evolving carbon dioxide
Chemical Stability	Stable if stored and handled under recommended conditions
Conditions to Avoid	Avoid generating dust. Avoid exposure to moisture and exposure to heat
Materials to Avoid	Incompatible/reactive with acids, phosphorus pentoxide, aluminium, lead, magnesium, iron, zinc, fluorine
Hazardous Decomposition Products	Decomposes on heating, emitting toxic fumes, including Carbon dioxide
Hazardous Polymerisation	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

General Information	<p>Acute toxicity: Low acute toxicity following oral, dermal and inhalation exposure. In case of ingestion, may cause severe irritation, nausea, abdominal pain, vomiting, diarrhoea.</p> <p>Skin irritation: Prolonged contact may cause skin irritation.</p> <p>Eye damage/irritation: Causes serious eye irritation; may cause redness, lachrymation, swelling.</p> <p>Respiratory/skin sensitisation: Not a skin sensitiser. Not considered to be genotoxic Not considered carcinogenic.</p> <p>Reproductive toxicity: Does not show specific reproductive or developmental toxicity.</p> <p>In case of inhalation at high concentrations: may cause cough, nose, throat and lung irritation.</p> <p>In case of repeated exposure: risk of sore throat, nose bleeds in case of repeated or prolonged inhalation exposure.</p> <p>Aspiration toxicity: No information available</p>
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Acute

Ingestion	Oral toxicity: LD50, Rats: >2,800 mg/kg
Other	Dermal toxicity: LD50, Rabbit: >2,000 mg/kg
Inhalation	Inhalation toxicity: LC50, Rat: 2.3 mg/l
Carcinogen	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Aquatic toxicity:- LC50, Fish (Lepomis macrochirus): 300 mg/L (96 h).- EC50, Crustacea (Ceriodaphnia dubia): 200 mg/L (48 h)
Degradability	In the presence of water, Sodium carbonate will fully dissociate to sodium and carbonate ions which will disperse in the various media
Bioaccumulation	Does not bioaccumulate. The substance dissociates fully on introduction to water.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of in accordance with local/regional/national regulations If recycling is not practicable
Special Precautions for Land Fill	Packaging disposal: Where possible, recycling is preferred to disposal or incineration.

14. TRANSPORT INFORMATION

Land Transport (Australia) ADG Code

Shipping Name	Dense Soda Ash
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for Land transport

Sea Transport (IMDG Code)

Shipping Name	Dense Soda Ash
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for Sea transport



Air Transport (IATA DGR)

Shipping Name	Dense Soda Ash
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for Air transport

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 Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
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15. REGULATORY INFORMATION

General Information	ALKALINE SALTS, being the carbonate, silicate or phosphate salts of sodium or potassium alone or in any combination, are listed in Schedule 5 of the SUSMP in (other) solid preparations, the pH of which in a 10 g/L aqueous solution is more than 11.5
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Poisons Schedule (Australia)	Not Scheduled
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National/Regional Inventories

Australia (AIC)	Listed
Canada (DSL)	Listed
China (IECSC)	Listed
Europe (EINECS)	207-838-8
Japan (ENCs/METI)	1-164
Korea (KECI)	KE-31380
Malaysia (List of Classified Substances)	Listed
New Zealand (NZIoC)	Listed

16. ANY OTHER RELEVANT INFORMATION

DISCLAIMER:

The information presented above is believed to be accurate and pertains only to the product when stored in a sealed condition as prescribed above. The information is given in good faith, but no warranty expresses or implied is made. Users should make their own investigations to determine the suitability of the above-mentioned safety information for their specific applications and processes. MPL Products shall in no way be liable for any claims, losses & damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages howsoever arising, from the use of this product.