

Material Safety Data Sheet (MSDS) – Sodium Carbonate (Dence)



1. IDENTIFICATION

GHS Product Identifier

SODIUM CARBONATE DENSE

Product Code

2182080

Company Name

Petro ARSES Chemical Co.

Address

Tehran, Sadaat Abad

Telephone/Fax Number

Tel: +98 912 650 8553

E-mail Address

Info@petroarses.com

Recommended use of the chemical and restrictions on use

Glass manufacturing, chemical manufacturing, pulp and paper, water treatment and pH control, soap and detergent manufacturing, coal treatment, emission control, iron exchange resin regeneration.

Other Names

Name	Product Code
Carbonic acid disodium salt, sodium carbonate	2182080

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

6.1D (Inhalation – vapours, dusts or mists) - Substance that is acutely toxic

6.1E (Oral) - Substance that is acutely

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6.3A Substance that is irritating to the skin

6.4A Substance that is irritating to the eyes

Signal Word (s)

WARNING

Hazard Statement (s)

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Precautionary Statement (s)

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

Pictogram (s)

Exclamation mark



Precautionary statement – Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

Precautionary statement – Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

Precautionary statement – Disposal

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Sodium carbonate	497-19-8	99%

4. FIRST-AID MEASURES

Inhalation

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

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Ingestion

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscious patient. Seek medical advice.

Skin

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

Eye contact

If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

First Aid Facilities

Eye wash facilities and safety shower should be available.

Advice to Doctor

1. Most Important Symptoms and Effects, Both Acute and Delayed:

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

2. Immediate Medical Attention and Special Treatment Needed:

- Treat symptomatically based on judgement of doctor and individual reactions of patient.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Not combustible, however, if material is involved in a fire use: Extinguishing media appropriate to surrounding fire conditions

Specific Hazards Arising From The Chemical

Non-combustible material

Hazchem Code

None Allocated

Decomposition Temperature

40°C

Other Information

Advice for Firefighters:

Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Clear area of all unprotected personnel

Methods And Materials For Containment And Cleaning Up

Wear protective equipment to prevent skin and eye contact and breathing in dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

Environmental Precautions

If contamination of sewers or waterways has occurred advise local emergency services.

Other Information

Reference to Other Sections:

See sections 8 and 13 for exposure controls and disposal

7. HANDLING AND STORAGE

Precautions for Safe Handling

- Avoid skin and eye contact and breathing in dust.
- Avoid handling which leads to dust formation.

Conditions for safe storage, including any incompatibilities

Containers:

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- Store in original packaging as approved by manufacturer.
- Storage:
- Store in a cool, dry, well-ventilated place.
 - Store away from incompatible materials described in Section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Material	TWA	STEL	Peak
sodium carbonate	10 mg/m ³	Not available	Not available

Appropriate Engineering Controls

Ensure ventilation is adequate to maintain air concentrations below Workplace Exposure Standards. Keep containers closed when not in use.

Personal Protective Equipment

Eye / Face:

Protective glasses or goggles should be worn when this product is being used (AS1336/1337).

Hands:

Elbow-length chemical resistant gloves.

Body:

Long-sleeved protective clothing and safety footwear (AS3765/2210).

Respiratory:

Air-purifying (half-mask / full-face) respirator with cartridges / canister approved for use against dusts, mists and fumes (AS1715/1716).

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Solid - Granules

Appearance

Granular Solid

Colour

White

Odour

Odourless

Decomposition Temperature

40°C

Melting Point

851°C

Boiling Point

Not available.

Solubility in Water

Miscible.

pH

pH (1% solution): 11.3

pH (as supplied): Not available

Vapour Pressure

Not available.

Vapour Density (Air=1)

Not available.

Evaporation Rate

Not available.

Viscosity

Not available

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Volatile Component

Not applicable

Density

2.53g/cm³

Flash Point

Not applicable

Auto-Ignition Temperature

Not applicable

Explosion Limit - Upper

Not applicable

Explosion Limit - Lower

Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Reacts exothermically with strong acids evolving carbon dioxide

Chemical Stability

Hygroscopic: absorbs moisture or water from surrounding air.

Conditions to Avoid

Powder or ground accumulation should be avoided.

Incompatible materials

Incompatible with phosphorus pentoxide, acids, aluminum, lead, magnesium, iron, zinc, fluorine

Hazardous Decomposition Products

Carbon dioxide. Decomposition temp- 40 °C

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. The symptoms or effects that may arise if the product is mishandled and if overexposure occurs are:

Acute Toxicity - Oral

Oral LD50 (rat): 4090 mg/kg.

Ingestion

No adverse effects expected, however, large amounts may cause nausea and vomiting

Inhalation

Breathing in dust may result in respiratory irritation

Skin

Contact with skin may result in irritation

Eye

An eye irritant

Serious eye damage/irritation

Moderate irritant (rabbit).

Chronic Effects

Not listed as carcinogenic according to IARC.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Avoid contaminating waterways

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Persistence and degradability

No information

Mobility

No information

Bioaccumulative Potential

No information

Other Adverse Effects

No information

13. DISPOSAL CONSIDERATIONS

Waste Disposal

This material and its container must be disposed of as hazardous waste.

Local Legislation

Recycle where possible otherwise ensure that:

- Licenced contractors dispose of the product and its container.
- Disposal occurs at a licenced facility.

14. TRANSPORT INFORMATION

U.N. Number

None Allocated

Transport hazard class(es)

None allocated

Sub.Risk

None allocated

Packing Group

None allocated

Hazchem Code

None Allocated

UN Number (Sea Transport)

None allocated

UN Number (Road Transport)

None allocated

UN Number (Air Transport, ICAO)

None allocated

IATA/ICAO Hazard Class

None allocated

IATA/ICAO Packing Group

None allocated

IATA/ICAO Sub Risk

None allocated

LIMITED QUANTITY - Max Net Quantity/Pkge

None allocated

IMDG UN No

None allocated

IMDG Hazard Class

None allocated

IMDG Sub. Risk

None allocated

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IMDG Pack. Group

None allocated

IMDG Subsidiary Risk

None allocated

IMDG Marine pollutant

No

IMDG EMS

None allocated

15. REGULATORY INFORMATION

National and or International Regulatory Information

Sodium carbonate (CAS: 497-19-8) is found on the following regulatory lists;

'CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP', 'GESAMP/EHS Composite List - GESAMP Hazard Profiles', 'IMO IBC Code Chapter 17: Summary of minimum requirements', 'International Council of Chemical Associations (ICCA) - High Production Volume List', 'New Zealand Hazardous Substances and New Organisms (HSNO) Act - Chemicals (single components)', 'New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals', 'New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data', 'New Zealand Inventory of Chemicals (NZIoC)', 'OECD Representative List of High Production Volume (HPV) Chemicals'.

HSNO Approval Number

HSR003265

Other Information

Specific advice on controls required for materials used in New Zealand can be found at <http://www.epa.govt.nz/hazardous-substances/approvals/Pages/default.aspx>.

16. OTHER INFORMATION

Date of preparation or last revision of SDS

07/10/2022

Technical Contact Numbers

24 Hour Emergency Contact: 0800 CHEMCALL (0800 243 622)

New Zealand Poisons Information Centre: 0800 POISON (0800 764 766)

New Zealand Emergency Services: 111

Other Information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Petro ARSES NZ cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Petro ARSES NZ representative or Petro ARSES NZ at the contact details on page 1.

Petro ARSES NZ's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

END OF SDS