Material Safety Data Sheet

Revision Date: 15.11.2019

SODA ASH DENSE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name — SODA ASH DENSE
- Chemical name — Sodium carbonate

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses of the Substance/Mixture

- Glass industry
- Detergent
- Chemical industry
- Metallurgy.
- Purifying flue gas

Uses advised against

- Technical product, only intended for chemical production, but not intended to be used in formulation or as direct additive for pharma/food/feed/cosmetic applications.

1.3. Company/Undertaking Identification

Address : NOVICHEM CO.

30 Magnolia Str, Qaem Maqam Farahani Ave.
Tehran 15886/13941 IRAN

1.4. Emergency and contact telephone numbers

Contact telephone number (product information) : +98-21-88329799 (Product information)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification

Acute toxicity, Category 5	H303: May be harmful if swallowed.
Eye irritation, Category 2A	H319: Causes serious eye irritation.

2.2 Label elements

GHS label elements

Hazardous products which must be listed on the label

- CAS-No. 497-19-8 — sodium carbonate

Pictogram

Signal word
- Warning

Hazard statements

- H303	May be harmful if swallowed.
- H319	Causes serious eye irritation.

Precautionary statements

Prevention

- P264	Wash skin thoroughly after handling.
- P280	Wear eye protection/ face protection.

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.
- P312	Call a POISON CENTER/ doctor if you feel unwell.
- P337 + P313	If eye irritation persists: Get medical advice/ attention.

2.3 Other hazards which do not result in classification

None known.

SECTION 3: Composition/information on ingredients

3.1 Substance

- Chemical name: Sodium carbonate
- Synonyms: Dense Sodium Carbonate/Soda Ash
- Formula: Na2CO3
- CAS-No.: 497-19-8

Information on Components and Impurities

Chemical name	CAS-No.	Concentration [%]
sodium carbonate	497-19-8	>= 99 - <= 100

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation

- Move to fresh air.
- If symptoms persist, call a physician.

In case of skin contact

- Wash off with soap and water.
- If symptoms persist, call a physician.

In case of eye contact

- In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a specialist.

In case of ingestion

- Rinse mouth with water.
- Do NOT induce vomiting.
- If symptoms persist, call a physician or Poison Control Centre immediately.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation

Symptoms
- At high concentrations:
- Cough

Effects
- May cause nose, throat, and lung irritation.

Repeated or prolonged exposure

- Risk of sore throat, nose bleeds

In case of skin contact

Effects
- Prolonged skin contact may cause skin irritation.

In case of eye contact

Symptoms
- Redness
- Lachrymation
- Swelling of tissue

Effects
- Severe eye irritation

In case of ingestion

Symptoms
- Severe irritation
- Nausea
- Abdominal pain
- Vomiting
- Diarrhoea

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

- If accidentally swallowed obtain immediate medical attention.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

- None

5.2 Special hazards arising from the substance or mixture

- Not combustible.

5.3 Advice for firefighters

Special protective equipment for firefighters

- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

- Evacuate personnel to safe areas.
- Avoid dust formation.

Advice for emergency responders

- Use personal protective equipment.
- Sweep up to prevent slipping hazard.

6.2 Environmental precautions

- Should not be released into the environment.
- Do not flush into surface water or sanitary sewer system.
- Prevent any mixture with an acid into the sewer/drain (gas formations).
- Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

- Sweep up and shovel into suitable containers for disposal.
- Keep in properly labelled containers.
- Keep in suitable, closed containers for disposal.
- Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

- Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Ensure adequate ventilation.
- Minimize dust generation and accumulation.
- Avoid contact with skin and eyes.
- Keep away from incompatible products

Hygiene measures

- When using do not eat, drink or smoke.
- Keep away from food and drink.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye wash bottles or eye wash stations in compliance with applicable standards.
- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

- Store in original container.
- Keep in a dry place.
- Keep in properly labelled containers.
- Keep container closed.

- Keep away from:
- Incompatible products

Packaging material

Suitable material
- Polyethylene
- Woven plastic material.

Unsuitable material
- Material moisture permeable

7.3 Specific end use(s)

- Contact your supplier for additional information
- This grade of the product is not intended for pharmaceutical, feed or food applications.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace occupational exposure limits

Components	Value type	Value	Basis
sodium carbonate	TWA	10 mg/m3	Solvay Acceptable Exposure Limit

8.2 Exposure controls

Control measures

Engineering measures
- Provide appropriate exhaust ventilation at places where dust is formed.
- Apply technical measures to comply with the occupational exposure limits.

Individual protection measures

Respiratory protection
- Self-contained breathing apparatus in confined spaces/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection.
- Use only respiratory protection that conforms to international/ national standards.
- Respirator with a particle filter (EN 143)
- P2 filter

Hand protection
- Impervious gloves
- Take note of the information given by the producer concerning permeability and break through times, and of special

workplace conditions (mechanical strain, duration of contact).

Suitable material
- Nitrile rubber
- Break through time: 480 min
- Glove thickness: >= 0,11 mm

- Natural Rubber
- Break through time: 480 min
- Glove thickness: >= 0,3 mm

Eye protection
- Tightly fitting safety goggles
- Eye wash bottles or eye wash stations in compliance with applicable standards.

Skin and body protection
- Dust impervious protective suit
- Contaminated work clothing should not be allowed out of the workplace.
- Change working clothes after each workshift.

Hygiene measures
- When using do not eat, drink or smoke.
- Keep away from food and drink.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye wash bottles or eye wash stations in compliance with applicable standards.
- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.

Environmental exposure controls

- Dispose of rinse water in accordance with local and national regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form:	powder
	Physical state:	solid
	Colour:	white
Odour	odourless	
Odour Threshold	No data available	
Molecular weight	106 g/mol	
pH	11,2 (4 g/l) (25 °C) 11,3 (10 g/l) (25 °C) pKa: 6,4 - 10,3	
Melting point/freezing point	Melting point/range: 851 °C	
Initial boiling point and boiling range	Boiling point/boiling range: Not applicable	

Auto-ignition temperature	
Vapour pressure	negligible
Vapour density	Not applicable
Density	Bulk density: 0,97 - 1,10 kg/dm3 Method: Free flow
Relative density	2,53 (20 °C)
Solubility	Water solubility: 71 g/l (0 °C)212,5 g/l (20 °C)
Partition coefficient: n-octanol/water	Not applicable
Decomposition temperature	> 400 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

- Decomposes by reaction with strong acids.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- no data available

10.4 Conditions to avoid

- Exposure to moisture
- Decomposes by reaction with strong acids.

10.5 Incompatible materials

- Finely divided aluminium

SECTION 11: Toxicological information

Toxicological data

Acute oral toxicity

- Remarks: no data available

Acute inhalation toxicity

- , Remarks: no data available

Acute dermal irritation/corrosion

- Remarks: study scientifically unjustified

Skin irritation
- Remarks: no data available

Eye irritation
- Remarks: no data available

Carcinogenicity
- Remarks: no data available

Reproductive toxicity
- no data available

Remarks

- no data available
- In vitro tests did not show mutagenic effects
- In vivo tests did not show mutagenic effects

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water No data available

Bioconcentration factor (BCF)

Not applicable (inorganic substance)

12.4 Mobility in soil

Adsorption potential (Koc)

Air	Mobility
Not applicable	Water
Solubility(ies)	Soil/sediments
Water	not significant

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

- Contact waste disposal services.
- If recycling is not practicable, dispose of in compliance with local regulations.
- Dilute with plenty of water.
- Neutralise with acid.

- In accordance with local and national regulations.

Advice on cleaning and disposal of packaging

- Where possible recycling is preferred to disposal or incineration.
- Clean container with water.
- Dispose of rinse water in accordance with local and national regulations.
- Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

SECTION 14: Transport information

IMDG
not regulated

IATA
not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

Health	2 moderate
Flammability	0 minimal
Reactivity	0 minimal
PPE	Determined by User; dependent on local conditions

SECTION 16: Other information

Information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.