Global Chemie ASCC Limited.
www.gcascc.com
CHEMCALL: 0-2324-6888

Safety Data Sheet

1. IDENTIFICATION

Product Name:	**Soda Ash Dense**
Other Names:	Sodium Carbonate
Recommended Use:	Raw material, inorganic salts, formulation agent.
Supplier:	Global Chemie ASCC Limited
Street Address:	88/123 Moo 2 Bangpoo Industrial Estate (North), Phraek Sa Mai, Mueang Samutprakan, Samutprakan 10280
Telephone:	+66 2324 6888
Fax:	+66 2324 6898-99
Emergency phone:	+66 2324 6888 ext.320

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

This product is classified as hazardous under GHS criteria.

Hazardous Classification

Acute Toxicity – oral Category 4

Eye Damage/Irritation Category 2B

Hazardous Statement

No data available.

GHS Pictograms

Hazard Statements

H320: Cause eye irritation.

H303: May be harmful if swallowed.

Precautionary Statements

P264 Wash contaminated body parts thoroughly after handling.

Response Statements

If on skin

No data available.

If inhaled

No data available.

If in eye

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

If swallowed

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

Storage Statements

No data available.

Disposal Statements

P501: Dispose of contents/container in accordance with local regulations.

Signal Word: Warning

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	UN No.	Proportion (%w/w)
Sodium Carbonate	497-19-8	-	100

Molecular Formular: Na_2CO_3

Molecular weight: 105.99 g/mol

4. FIRST AID MEASURES

For advice, contact Ramathibodi Poison Center (Phone: 1367) or a doctor.

Ingestion

Immediately rinse mouth and drink 200-300 ml. of water, seek medical attention.

Eye Contact

Wash affected eyes for at least 10-15 minutes under running water with eyelids held open, consult an eye specialist.

Skin Contact

Wash thoroughly with soap and water.

Inhalation

Keep patient calm, remove to fresh air, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptom: It irritates the eyes and respiratory tract.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Water Spray.

Unsuitable extinguishing media: No data available.

Special hazards arising from the substance or mixture: Carbon dioxide. Products are not combustible or explosive.

Advice for fire-fighters: Product itself is non-combustible; fire extinguishing methos of surrounding areas must be considered.

6. ACCIDENTAL RELEASE MEASURES.

Personal precautions, protective equipment and emergency procedures

Use personal protection clothing.

Environmental precautions

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants.

Methods and materials for containment and cleaning up

For large amounts: Sweep up and shovel. For residues: Sweep/shovel up. Avoid raising dust.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid dust is formation.

Protection against fire and explosion: The substance/product is non-combustible.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Stainless steel 1.4541, Stainless steel 1.4571, High density Polyethylene (HDPE), Low density polyethylene (LDPE), glass, Aluminum, Paper/Fiberboard, rubberized, carbon steel (iron).

Storage stability: Protect against moisture.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Control parameters

Occupational Exposure limit value: No data available.

OSHA Vacated PELs: No data available.

Appropriate engineering controls: No data available.

Individual protection measures (PPE)

Respiratory protection:

Breathing protection if dust is formed. Suitable respiratory protection for lower concentration or short-term effect: particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1 or FFP1).

Hand protection

Chemical resistant protective gloves (EN ISO 374-1).

Suitable materials also with prolonged, direct contact (Recommended: protective index 6,Cor-Responding>480 minutes of permeation time according to EN ISO 374-1):

Chloroprene rubber (CR)-0.5mm coating thickness

Butyl rubber(butyl)-0.7mm coating thickness

Nitrile rubber (NBR)-0.4mm coating thickness

Fluor elastomer (FKM)-0.7mm coating thickness

Polyvinylchloride (PVC)-0.7mm coating thickness

Supplementary note: The specifications are based on test, literature data and information of glove manufacturers or are derived from similar substances by analogy, Due to many conditions (e.g.

Temperature) it must be considered. That the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturers' directions for se should be observed because of a great diversity of types.

Eyes contact

Tightly fitting safety goggles (splash goggles) (e.g. END 166).

Body Protection:

Body protection must be chosen depending on activity and possible exposure, e.g. to aprons, protecting Boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of Dust.

Concentration and number of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value
Appearance	-	White / Crystalline, powder
Odour	-	Odorless

Property	Unit of Measurement	Typical Value
pH @ 25°C (12%Solution)	-	11.6
Boiling point	°C	(1.013,25 hPa.) The substance/product decomposes therefore not determined.
Melting point	°C	851
Flash point	°C	No data available
Flammability	-	Not Flammable
Autoignition Temperature	°C	Not self-igniting
Decomposition Temperature	°C	> 400
Lower/Upper Flammability Limits	%V	No data available
Density	g/cm^3	2.522
Specific Gravity @ 20°C	-	No data available
Viscosity @ 20°C	mPa.s	No data available
Vapor pressure	mbar	No data available
Vapor density	kPa (Air = 1)	No data available
Evaporation Rate	(n-Butyl acetate = 1)	No data available
Water Solubility	g/L	217 @20°C
Solubility in other solvents Partition coefficient (Log Pow)	(n-octanol/water)	No data available
Coefficient of Thermal Expansion	per Deg C	No data available
Particle Characteristics	-	No data available
Bulk density	kg/m^3	600
Grain size distribution- Test substance other TS	-	Particles: 0.125-0.250mm 20-35 % Particles: 0.063-0.125mm 20-30% Particles:< 0.063mm 20-35%

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

Reactivity

Corrosion to metals: not corrosive effect on metal.

Formation of flammable gases: Remark: Forms no flammable gases in the presence of water.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Risk of carbon dioxide formation under the influence of acids. Addition of water leads to increase in temperature.

Conditions to avoid

No data available.

Incompatible materials

Acid forming substances.

Hazardous decomposition products

Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Oral: LD50 rat(oral): 2.800 mg/kg.

Inhalation: LD50 = No data available.

Dermal: LD40 Rabbit(dermal): >2.000 mg/kg.

Assessment of corrosion/irritation:

Skin: Not irritating to the skin. Skin corrosion/irritation (rabbit): non-irritant. (OECD Test Guideline 404)

Eye: Eye contact causes irritation and Serious eye damage/Irritation (rabbit): Irritant. (EPA guideline)

Respiratory or skin sensitization: No data available. The chemical structure does not suggest a sensitizing effect.

Experimental/calculated data: Study does not need to be conducted.

Germ cell mutagenicity: No data available. The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity: No data available. The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity: No data available. The chemical structure does not suggest a specific alert for such an effect.

STOT-repeated exposure: The available information is no sufficient for the evaluation of specific target organ toxicity.

Aspiration hazard: No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

- Toxicity to fish LC50(96 h) 300mg/L, Lepomis macrochirus (other, static)

The product will cause changes in the pH cause in the pH value of the test system.

- Aquatic invertebrates: EC50(48 h) 220-227 mg/l., Cerio daphnia sp. (other, semi static)

The product will cause changes in the pH cause in the pH value of the test system.

- Aquatic plants: Study scientifically is not justified.

- Microorganisms/Effect on activated sludge: Study scientifically is not justified.

Chronic toxicity

Chronic toxicity to fish: Study scientifically is not justified.

Chronic toxicity to aquatic invertebrates: Study scientifically is not justified.

Assessment of terrestrial toxicity: No data available, Study scientifically not justified.

Persistence and degradability: Assessment biodegradation and elimination (H2O): inorganic product which cannot be eliminated from water by biological purification processes.

Assessment stability in water: According to structure properties, hydrolysis is not expected/probable, Study scientifically is not justified. Information on stability in water (Hydrolysis): Study scientifically is not justified.

Bioaccumulative potential: Study scientifically not justified.

Mobility in soil: Absorption to solid soil phase is not expected.

Other adverse effects: The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the Ozone layer.

Remarks environment & pathway: At the present state of knowledge, no negative ecological effects are expected.

Other ecotoxicological advice: Due to the pH value of the product, neutralization is generally required before discharging Sewage into treatment plants

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Must be disposed of by special means, e.g. suitable dumping after chemical/physical pretreatment (consolidation)

Contact waste center regarding recycling

Contact manufacturer regarding recycling.

Contaminate packaging

Contaminated packaging should be expired as far as possible; then it can be passed on for recycling, After being thoroughly cleaned.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN. Number	Not Regulated	UN. Number	Not Regulated	UN. Number	Not Regulated
Class/Item	Not Regulated	Class/Item	Not Regulated	Class/Item	Not Regulated
Hazard Symbol	Not Regulated	Hazard Symbol	Not Regulated	Hazard Symbol	Not Regulated
Proper Shipping Name	Not Regulated	Proper Shipping Name	Not Regulated	Proper Shipping Name	Not Regulated
Packing Group	Not Regulated	Packing Group	Not Regulated	Packing Group	Not Regulated
		Marine Pollutant	Not Regulated		

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation*EC) No. 1907/2006 Safety Health and environmental regulations/registration specific for the substance or mixture

16. OTHER INFORMATION

National Fire Protection Association (USA)	:	No data available.
SDS Distribution	:	The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.
Prepared By	:	Quality Control Department / Global Chemie ASCC Limited.

Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association TWA: Time Weighted Average

STEL: Short-term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

References:

- Supplier Material Safety Data Sheets.

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. No warranty and guarantee are expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product for further information, please contact Global Chemie ASCC Limited.