SAFETY DATA SHEET
SODIUM CARBONATE

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

1.1. Product identifier
Product name  SODIUM CARBONATE
Product number  92
Synonyms; trade names  SODIUM CARBONATE ANHYDROUS, SODA ASH LIGHT, SODA ASH DENSE, SODIO CARBONATO DENSO FRANCESE (SODA ASH DENSE), SODIO CARBONATO DENSO RUMENO (SODA ASH DENSE), SODIO CARBONATO LEGGERO FRANCESE (SODA ASH LIGHT), SODIO CARBONATO LEGGERO TEDESCO (SODA ASH LIGHT), SODIO CARBONATO LEGGERO RUMENO (SODA ASH LIGHT), SODIO CARBONATO LEGGERO POLACCO (SODA ASH LIGHT), SODIO CARBONATO LEGGERO BOSNIACO (SODA ASH LIGHT), BRISWIM SPA ALK, BRISWIM ALKALI, pH INCREASER, SODIUM CARBONATE EP FCC, SODA XTL, SODIUM CARBONATE IPH, SODIUM CARBONATE IPH SLY, SOD CARBONATE LIGHT TTA, SOD CARBONATE LIGHT CIE, SOD CARBONATE LIGHT CIE O&G, SODIUM CARBONATE HAEMODIALYSIS, SOD CARBONATE DENSE SLY, SOD CARBONATE LIGHT SLY, SOD CARBONATE LIGHT SLYBRG, SODA CRYSTALS, SODIUM CARBONATE LIGHT FCC ED 7, SURCHLOR CORRECTEUR PH PLUS, SODIUM CARBONATE IPH FG/PH, SODA SOLVAY LIGHT, SODA SOLVAY DENSE
REACH registration number  01-2119485498-19-XXXX
CAS number  497-19-8
EU index number  011-005-00-2
EC number  207-838-8

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses  Glass Chemical Intermediate Water Treatment Detergent. metallurgy

1.3. Details of the supplier of the safety data sheet
Supplier  Univar
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
sds@univar.com

1.4. Emergency telephone number
Emergency telephone  SGS - +32 (0)3 575 55 55 (24h)
Sds No.  92

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
SODIUM CARBONATE

Physical hazards  Not Classified
Health hazards  Eye Irrit. 2 - H319
Environmental hazards  Not Classified

2.2. Label elements
EC number  207-838-8

Pictogram

Signal word  Warning
Hazard statements  H319 Causes serious eye irritation.
Precautionary statements  P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.

2.3. Other hazards
This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances
Product name  SODIUM CARBONATE
REACH registration number  01-2119485498-19-XXXX
EU index number  011-005-00-2
CAS number  497-19-8
EC number  207-838-8
Composition comments  The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures
Inhalation  Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion  Rinse mouth thoroughly with water. Do not induce vomiting. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Give plenty of water to drink. Get medical attention if any discomfort continues.
Skin contact  Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact  Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
Inhalation  Irritation of nose, throat and airway.
SODIUM CARBONATE

### Skin contact
Prolonged skin contact may cause redness and irritation.

### Eye contact
Causes serious eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor**
No specific recommendations. If in doubt, get medical attention promptly.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media**
Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media**
Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards**
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon.

#### 5.3. Advice for firefighters

**Special protective equipment for firefighters**
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions**
Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. Provide adequate ventilation. Avoid handling which leads to dust formation.

#### 6.2. Environmental precautions

**Environmental precautions**
Avoid discharge into water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up**
Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Collect and place in suitable waste disposal containers and seal securely.

#### 6.4. Reference to other sections

**Reference to other sections**
For personal protection, see Section 8. For waste disposal, see Section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions**
Provide adequate ventilation. Avoid generation and spreading of dust. Avoid spilling. Avoid inhalation of dust and contact with skin and eyes.

**Storage precautions**
Store in tightly-closed, original container in a dry, cool and well-ventilated place.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Specific end use(s)**
The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters
SODIUM CARBONATE

DNEL
Industry - Inhalation; Long term local effects: 10 mg/m³
Consumer - Inhalation; Short term local effects: 10 mg/m³

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust. Provide adequate ventilation. Avoid inhalation of dust.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours. Neoprene. Rubber (natural, latex). glove thickness 0.11mm To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection
Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures
Wash at the end of each work shift and before eating, smoking and using the toilet. Eye wash facilities and emergency shower must be available when handling this product. When using do not eat, drink or smoke. Good personal hygiene procedures should be implemented.

Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. EN 136/140/141/145/143/149

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Dusty powder. Crystalline powder.

Colour
White.

Odour
Odourless.

Odour threshold
No information available.

pH
pH (concentrated solution): >12 (10%)

Melting point
851°C

Initial boiling point and range
No information available.

Flash point
No information available.

Evaporation rate
No information available.

Evaporation factor
No information available.

Flammability (solid, gas)
No information available.

Upper/lower flammability or explosive limits
No information available.

Other flammability
No information available.
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- Vapour pressure: No information available.
- Vapour density: No information available.
- Relative density: 2.52 - 2.53 @ 20°C
- Bulk density: No information available.
- Solubility(ies): Soluble in water.
- Partition coefficient: Not available.
- Auto-ignition temperature: No information available.
- Decomposition Temperature: >400°C
- Viscosity: No information available.
- Explosive properties: No information available.
- Explosive under the influence of a flame: No information available.
- Oxidising properties: Does not meet the criteria for classification as oxidising.

9.2. Other information

- Other information: None.
- Refractive index: No information available.
- Particle size: No information available.
- Molecular weight: 106 g/mol
- Volatility: No information available.
- Saturation concentration: No information available.
- Critical temperature: No information available.
- Volatile organic compound: No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: The following materials may react with the product: Acids.

10.2. Chemical stability

Stability: Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: Not applicable.

10.4. Conditions to avoid

Conditions to avoid: Avoid excessive heat for prolonged periods of time. Moisture.

10.5. Incompatible materials

Materials to avoid: Strong acids. Aluminium.

10.6. Hazardous decomposition products

Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon.
SODIUM CARBONATE

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 2,800.0
Species Rat

Acute toxicity - dermal
Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0
Species Rat

Acute toxicity - inhalation
Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 2,300.0
Species Rat

ATE inhalation (dusts/mists mg/l) 2,300.0

Skin corrosion/irritation
Animal data Not irritating.

Serious eye damage/irritation
Serious eye damage/irritation Irritating.

Respiratory sensitisation
Respiratory sensitisation No information available.

Skin sensitisation
Skin sensitisation No information available.

Germ cell mutagenicity
Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

Carcinogenicity
Carcinogenicity No evidence of carcinogenicity in animal studies.

Reproductive toxicity
Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure
STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure
STOT - repeated exposure No information available.

Aspiration hazard
Aspiration hazard No information available.

Inhalation
Dust in high concentrations may irritate the respiratory system.

Ingestion
May cause discomfort if swallowed.

Skin contact
Prolonged skin contact may cause temporary irritation.
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Eye contact

Causes serious eye irritation.

SECTION 12: Ecological Information

Ecotoxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity

Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 300 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 265 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability

The product contains mainly inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product is not bioaccumulating.

Partition coefficient

Not available.

12.4. Mobility in soil

Mobility

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects

Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Waste is classified as hazardous waste.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group
SODIUM CARBONATE

Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment
A chemical safety assessment has been carried out.

Inventories
EU - EINECS/ELINCS
All the ingredients are listed or exempt.

Canada - DSL/NDSL
All the ingredients are listed or exempt.
DSL

US - TSCA
All the ingredients are listed or exempt.

Australia - AICS
All the ingredients are listed or exempt.

Korea - KECI
All the ingredients are listed or exempt.

China - IECSC
All the ingredients are listed or exempt.

Philippines – PICCS
All the ingredients are listed or exempt.

New Zealand - NZIOC
All the ingredients are listed or exempt.

SECTION 16: Other information
SODIUM CARBONATE

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
vPvB: Very Persistent and Very Bioaccumulative.
IARC: International Agency for Research on Cancer.
cATpE: Converted Acute Toxicity Point Estimate.
BCF: Bioconcentration Factor.
BOD: Biochemical Oxygen Demand.
EC₅₀: 50% of maximal Effective Concentration.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.
EL50: Exposure Limit 50
hPa: Hectopascal
LL50: Lethal Loading fifty
OECD: Organisation for Economic Co-operation and Development
POW: Octanol-water partition coefficient
SCBA: self-contained breathing apparatus
STP: Sewage Treatment Plant
VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 03/10/2017
Version number 4.001
Supersedes date 01/09/2017
SDS number 92
SODIUM CARBONATE

SDS status  Approved.
Hazard statements in full  H319 Causes serious eye irritation.
Signature  Lisa Bland