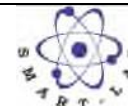


MATERIAL SAFETY DATA SHEET**SODIUM CARBONATE ANHYDROUS**

Revision : 00

Date : 27.02.2019

MSDS Number : 1225

Section 1 - Chemical Product and Company Identification

- 1.1 Product Name** : **SODIUM CARBONATE ANHYDROUS**
Synonyms : Crystal Carbonate, Disodium Carbonate, Sal Soda, Soda Asha, Washing Soda
CAS No. : 497-19-8
HS Code : 2836 20 10
Molecular Weight : 105.99 g/mol
Chemical Formula : Na_2CO_3
Product Code : A 2048, A 3191, A 3192
Brand : SMART-LAB
- 1.2 Manufacturer** : **PT.Smart-Lab Indonesia**
Address : Ruko Boulevard TamanTekno Blok E No.10 -11BSD SektorXI
 Serpong, Tangerang - Indonesia
Website : www.smartlabid.com
Email : sales@smartlabid.com
For information : Telp: +62-21- 7588 0205(Hunting) , fax:+62-21-7588 0198
- 1.3 Application** : General Chemical reagent
Emergency Telephone: +62-21-7588 0205(Hunting)

Section 2 - Hazards Identification

- 2.1 Classification of the substance or mixture**
Classification according to Regulation (EC) No 1272/2008
 Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

Hazard statement(s)
 H319

Causes serious eye irritation.

Precautionary statement(s)
 P305 + P351 + P338

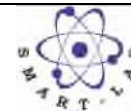
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

MATERIAL SAFETY DATA SHEET**SODIUM CARBONATE ANHYDROUS**

Revision : 00

Date : 27.02.2019

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Section 3 - Composition, Information on Ingredients

3.1 Substances

Synonyms : Disodium Carbonate
 Formula : Na₂CO₃
 Molecular weight : 105.99 g/mol
 CAS-No. : 497-19-8
 EC-No. : 207-838-8

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Sodium carbonate CAS-No. 497-19-8 EC-No. 207-838-8 Index-No. 011-005-00-2	Eye Irrit. 2; H319	<=100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4 - First Aid Measures

4.1 Description of first aid measures**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

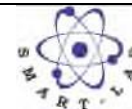
4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5 - Firefighting Measures

5.1 Extinguishing media**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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Revision : 00

Date : 27.02.2019

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5.2 Special hazards arising from the substance or mixture

Carbon oxides, Sodium oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

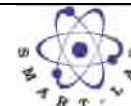
Section 8 - Exposure Controls, Personal Protection

8.1 Control parameters**8.2 Exposure controls****Appropriat engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment**Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber
 Minimum layer thickness: 0.11 mm
 Break through time: 480 min
 Material tested: Dermatril® (KCL 740, Size M)

Splash contact

Material: Nitrile rubber
 Minimum layer thickness: 0.11 mm
 Break through time: 480 min
 Material tested: Dermatril® (KCL 740, Size M)

Body Protection

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

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

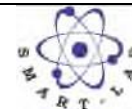
Control of environmental exposure

Do not let product enter drains.

Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Form: powder Colour: white
Odour	No data available
Odour Threshold	No data available
pH	12 at 106 g/l at 25 °C
Melting point/freezingpoint	851 °C
Initial boiling point and boiling range	1,600 °C
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	2.532 g/cm ³
Water solubility	217 g/l at 20 °C - completely soluble
Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	No data available

MATERIAL SAFETY DATA SHEET**SODIUM CARBONATE ANHYDROUS**

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Decomposition temperature	400 °C -
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other safety information

No data available

Section 10 - Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong acids

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sodium oxides
 In the event of fire: see section 5

Section 11 - Toxicological Information

11.1 Information on toxicological effects**Acute toxicity**

LD50 Oral - Rat - 4,090 mg/kg(Sodium carbonate)
 LC50 Inhalation - Rat - 2 h - 5,750 mg/l(Sodium carbonate)

Skin corrosion/irritation

Skin - Rabbit(Sodium carbonate)
 Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

No data available(Sodium carbonate)

Respiratory or skin sensitisation

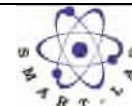
No data available(Sodium carbonate)

Germ cell mutagenicity

No data available(Sodium carbonate)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

MATERIAL SAFETY DATA SHEET**SODIUM CARBONATE ANHYDROUS**

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Reproductive toxicity

No data available(Sodium carbonate)

Specific target organ toxicity - single exposure

No data available(Sodium carbonate)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Sodium carbonate)

Additional Information

RTECS: Not available

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting(Sodium carbonate)

Section 12 - Ecological Information

12.1 Toxicity*Toxicity to fish*

LC50 - Lepomis macrochirus (Bluegill) - 300 mg/l - 96 h(Sodium carbonate)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 265 mg/l - 48 h(Sodium carbonate)

12.2 Persistence and degradability

Biodegradability

aerobic - Exposure time 4 d(Salicylic acid)

Result: > 90 % - Inherently biodegradable.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available(Sodium carbonate)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

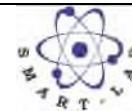
Section 13 - Disposal Considerations

13.1 Waste treatment methods**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

MATERIAL SAFETY DATA SHEET**SODIUM CARBONATE ANHYDROUS**

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Section 14 - Transport Information

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user**Further information**

No data available

Section 15 - Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16 - Additional Information

Full text of H-Statements referred to under sections 2 and 3.

H319 Causes serious eye irritation.

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Revision history :

Date	Rev	Description
Feb 7, 2019	00	-

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PT. Smartlab Indonesia Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product