



## Anhydrous soda

Revision: 2; 14/02/2012

Responsible for distribution: see footer

In case of emergency: Antipoison Center - Brussels : TEL: 070/245.245

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

\* Chemical description : Sodium carbonate , Soda ash , anhydrous

Type of product : Pure product

\* Reach registration number : 01-21194854498-19

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

\* Identified use(s) : See table on the front page of the annex.

\* Use(s) advised against : This product is not recommended for any industrial, professional or consumer use other than identified in table on the front page of the annex.

#### 1.3. Details of the supplier of the safety data sheet

Company identification : See footer of Material Safety Data Sheet.

#### 1.4. Emergency telephone number

Emergency phone number : Antipoison Center - Brussels : TEL: 070/245.245

### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Irritant (Xi; R36)

Classification according to Regulation (EC) No 1272/2008

\* Eye irritation - Category 2 - Warning (Eye Irrit. 2; H319)

#### 2.2. Label elements

Label in accordance with Regulation (EC) No 1272/2008

• Dangerous ingredient(s) : Sodium carbonate anhydrous

\* • Hazard pictogram(s)



\* • Signal word : Warning

\* • Hazard statements : H319 - Causes serious eye irritation.

• Precautionary statements

- Prevention : P264 - Wash thoroughly after handling. P280 - Wear protective gloves, protective clothing, 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. P337+P313 -

If eye irritation persists : Get medical advice.



## 2. Hazards identification (continued)

### 2.3. Other hazards

- \* Physical/chemical hazards : Corrosive to metals.
- \* Hazards for the health : Evaporates practically not at 20°C; will be as a powder quickly squirt a dangerous concentration in the air.
- \* Hazards for the environment : Product causes a strong rise of the pH-value of water and soil. This product is no substance or contains no PBT or vPvB (in accordance with Annex XIII).
- \* Hazards for the safety : No significant danger.

## 3. Composition/information on ingredients

### 3.1. Substances

Name component(s)	Weight %	CAS nr	EINECS nr	Index nr	Reach nr	CLASSIFICATION
* Sodium carbonate anhydrous	> 99 %	497-19-8	207-838-8	011-005-00-2	01-2119485498-19	Xi; R36 Eye Irrit. 2; H319

\* The full text of the R-phrases and (EU)H-statements is in section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

General : In case of doubt or persistent symptoms, call a physician.  
Never give anything by mouth to an unconscious person.

#### First Aid Measures

- Inhalation : Remove victim into fresh air. Allow the affected person to rest. If not breathing, give artificial respiration. Consult doctor if permanent complaints.
- Skin Contact : Remove contaminated clothing. Rinse skin immediately with plenty of water. (shower if necessary). Consult doctor if irritation develops.
- Eye Contact : Rinse immediately thoroughly and long (at least 15 min.) with plenty of water. Remove contact lenses. Consult eye doctor. Do not use a neutralisation agent.
- Ingestion : DO NOT INDUCE VOMITING. Rinse mouth with water. Seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

\* See section 11.

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

\* For specialist advice doctors should contact the NVCI or the Belgian Poison center.

## 5. Firefighting measures

### 5.1. Extinguishing media

#### Extinguishing Media

- \* - Suitable : All extinguishing media can be used.
- \* - Insuitable : None .

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

Special Exposure Hazards : Fire may liberate carbon oxides (CO) and smoke.

**5. Firefighting measures (continued)****5.3. Advice for firefighters**

\* Special Protective Equipment for firefighters : Use self-contained breathing apparatus and wear protective clothes when in close proximity to fire.

Special Procedures : Apply water spray or fog to cool nearby equipment. Avoid fire-fighting water to enter environment.

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Personal Precautions : Evacuate all personnel immediately and ventilate area. Avoid breathing the product and contact with eyes and skin. Wear recommended personal protective equipment. (See section 8)

**6.2. Environmental precautions**

Environmental Precautions : Prevent entry of product in public water, sewers or soil.  
Notify authorities if product enters sewers or public waters.

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

\* Methods for Cleaning Up : Sweep the spilled product. Residue is to be washed down with plenty of water.

**6.4. Reference to other sections**

\* For personal protection, see section 8.  
For the removal of the waste product, see section 13.

**7. Handling and storage****7.1. Precautions for safe handling**

\* Handling :  
Avoid breathing the product and contact with eyes and skin.  
Wear recommended personal protective equipment. (See section 8)  
When using, do not eat, drink or smoke.  
Wash hands before and after working with the product.  
Emergency eye wash fountains and showers should be available in the immediate vicinity of any potential exposure.

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

\* Storage :  
Keep only in the original, safely locked container in a well-ventilated and dry place. All dangerous products should be placed on a drip tray or should be barreled.  
Keep away from : Acids .  
\* Packaging Material : Polyethylene  
Insuitable Packaging Material : Aluminium , Zinc

**7.3. Specific end use(s)**

\* For identified uses, see subsection 1.2 and/or exposure scenarios.

**8. Exposure controls/personal protection****8.1. Control parameters**

\* Occupational Exposure Limits : Not established.  
\* Biological limit values : They will be included when available.  
\* DNELs : • Sodium carbonate anhydrous : Worker, long-term - local effects, inhalation : 10 mg/m<sup>3</sup>  
\* PNECs : Not applicable.

**8. Exposure controls/personal protection (continued)****8.2. Exposure controls**

\* Engineering Measures : Ventilation , Local exhaust

Personal Protection Equipment

\* - Respiratory protection : CE-approved gas respirator ( Filter type P2).

- Skin protection : Suitable protective clothing .

\* - Hand protection : Suitable material for safety gloves (EN 374):

PVC : penetration time > 480' - thickness 0,5 mm

\* - Eye/Face protection : Eye protection (combined with respiratory protection equipment).

\* Environmental exposure controls : See sections 6, 7, 12 en 13.

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical State (20°C) : Solid

Form/Colour : Colourless to white

Odour : Odourless

\* Odour threshold : No data available

\* pH value : Strong base

Melting/Freezing point : 851 °C

Boiling Point/Range (1013 hPa) : 1600 °C ( Decomposes )

Flash point : Not applicable.

\* Fire hazard : Not applicable

\* Evaporation rate : Not applicable

Explosion limits in air : Not applicable

\* Vapour pressure (20°C) : Not applicable.

\* Relative vapour density (air=1) : No data available

Relative density (water=1) : 2,5

Solubility in water (20°C) : 22 g/100 ml

Log P Octanol/Water (20°C) : Not established

\* Auto-ignition temperature : Not applicable

\* Minimum ignition energy : Not applicable

\* Decomposition temperature : No data available

\* Viscosity (20°C) : Not applicable

\* Explosive properties : No chemical groups associated with explosive properties

\* Oxidizing properties : No chemical groups associated with oxidizing properties

**10. Stability and reactivity****10.1. Reactivity**

\* Reactivity : Reacts violently with acids .

Corrosive to metals.

**10.2. Chemical stability**

Stability : Stable at normal circumstances .

**10.3. Possibility of hazardous reactions**

\* Hazardous reactions : Creation of: CO.

**10.4. Conditions to avoid**

Conditions to avoid : Moisture

**10. Stability and reactivity (continued)****10.5. Incompatible materials**

\* Materials to avoid : Acids , Metals ( Aluminium , Zinc ).

**10.6. Hazardous decomposition products**

Hazardous Decomposition Products : Fire may liberate carbon oxides (CO) and smoke.

**11. Toxicological information****11.1. Information on toxicological effects**

Acute toxicity

- \* - Inhalation : May cause irritation of respiratory tract. Symptoms include: Cough, Shortness of breath
- Sodium carbonate anhydrous : LC50 (Rat, inhalation, 2 h) : 2,3 mg/l
- Skin contact : May be irritating for the skin. Symptoms include: Redness
- Eye contact : Irritating to eyes. Symptoms include: Redness, Pain, Bad vision
- \* - Ingestion : Symptoms include: Sore throat , Abdominal pain
- Sodium carbonate anhydrous : LD50 (Rat, oral) : 2800 mg/kg
- \* Skin corrosion/irritation : Not irritant
- \* Serious eye damage/irritation : Irritating to eyes
- \* Aspiration hazard : Not considered hazardous.
- \* Respiratory or skin sensitisation : Not sensitive
- \* Carcinogenicity : Not listed as carcinogenic
- \* Mutagenicity : Not listed as mutagenic
- \* Reproductive toxicity : Not listed for reproductive toxicity
- \* Specific target organ toxicity - single exposure: To human : Listed not for organ toxicity  
For animals : No effects known.
- \* Specific target organ toxicity - repeated exposure: To human : Listed not for organ toxicity  
For animals : No effects known.

**12. Ecological information****12.1. Toxicity**

Ecotoxicity :

- Sodium carbonate anhydrous : LC50 (Fish, 96 h) : > 200 mg/l
- Sodium carbonate anhydrous : EC50 (Daphnia magna, 48 h) : > 200 mg/l

**12.2. Persistence and degradability**

Persistence and degradability : • Sodium carbonate anhydrous : Persistence and degradability : Anorganic .

**12.3. Bioaccumulative potential**

\* Bioaccumulation : • Sodium carbonate anhydrous : Bioaccumulation : No bioaccumulation .

**12.4. Mobility in soil**

\* Mobility : • Sodium carbonate anhydrous : Mobility : Good soluble in water .

**12.5. Results of PBT and vPvB assessment**

\* Evaluation : • Sodium carbonate anhydrous : PBT/vPvB : No

**12.6. Other adverse effects**

WGK class (DE) : 1 ( Weak water pollutant ).

Water damaging (NL) : 11

Decontamination exertion (NL) : B

- \* Photochemical ozone creation potential : No data available.
- \* Ozone depletion potential : No data available.
- \* Endocrine disrupting potential : No data available.
- \* Global warming potential : No data available.

**Brouwland**

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**12. Ecological information (continued)****12.6. Other adverse effects**

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Water damaging (NL) : 11

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\* Photochemical ozone creation potential : No data available.

\* Ozone depletion potential : No data available.

\* Endocrine disrupting potential : No data available.

\* Global warming potential : No data available.

**13. Disposal considerations****13.1. Waste treatment methods**

Waste from residues/Unused products : The product has to be destroyed according to national or local legislation, by a company specialised in handling hazardous waste products.

\* European list of waste products : XXXXXX - European waste product code. This code is assigned on the basis of the most current applications and cannot be representative for pollutions which are arisen at the effective use of the product. The producer of the waste has to evaluate its process himself and has to grant the appropriate waste coding. See Decision 2001/118/EC.

Removal contaminated packaging : Packing is to be used exclusively for the packing of this product. After use, empty and close the packing very carefully.

**14. Transport information****14.1. UN number**

UN Number : -

**14.2. UN proper shipping name**

ADR Name : -

\* ADN Name : -

IMDG Name : -

**14.3. Transport hazard classe(s)**

Class : -

**14.4. Packing group**

Packaging Group : -

**14.5. Environmental hazards**

\* Environmentally hazard : No

Marine pollutant : No

**14.6. Special precautions for user**

Danger number : -

Hazard Label(s) : -

EmS-N° : -

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

\* Type ship : Not applicable.

\* Pollution category : Not applicable.

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

\* Inventories :

Australian inventory (AICS): Listed in inventory.

Canadian inventory (DSL): Listed in inventory.

European inventory (EINECS): Listed in inventory.

Japanese inventory (ENCS): Listed in inventory.

Chinese inventory (IECS): Listed in inventory.

Korean inventory (KECI): Listed in inventory.

Philippine inventory (PICCS): Listed in inventory.

Inventory of the United States (TSCA): Listed in inventory.

NFPA n° : 2-0-3

\* Relevant EU Rule(s) :

Directive 98/24/EC of the Council of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Decision 2001/118/EC of the Commission of 16 January 2001 amending Decision 2000/532/EC as regards the list of wastes.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (Reach).

**15.2. Chemical Safety Assessment**

\* A chemical safety assessment has been carried out for the substance(s) that make up this material or for the material itself.

**16. Other information**

\* This safety data sheet has been drawn up in accordance with Regulation (EU) No 453/2010.

This safety data sheet is exclusively made for industrial/professional use.

\* Has changed compared to previous revision.

\* Changes : General revision

\* Sources of used key data : The information contained herein is based on the present state of our knowledge (Producer(s) , Chemical cards , ...).

See also on the webaddress: <http://apps.echa.europa.eu/registered/registered-sub.aspx#search>

R-phrase(s) : R36 - Irritating to eyes.

\* (EU)H-statement(s) : H319 - Causes serious eye irritation.

**16. Other information (continued)**

## \* List of abbreviations and acronyms :

ADN (Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation interieur) : European agreement concerning the international carriage of dangerous goods by inland waterways

ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route) : European agreement concerning the international carriage of dangerous goods by road

CO : Carbon monoxide

DNEL (Derived No Effect Level) : an estimated safe exposure level

EmS (Emergency Schedule) : the first code refers to the relevant fire schedule and the second code refers to the relevant spillage schedule

IMDG (International Maritime Dangerous Goods code)

NFPA (National Fire Protection Association) or fire diamant

NVCI : National Poisoning Information Center

PBT : persistent, bioaccumulative and toxic

PNEC (Predicted No Effect Concentration) : concentration below which exposure to a substance is not expected to cause adverse effects

REACH : Registration, Evaluation, Authorisation and restriction of Chemicals

vPvB : very persistent and very bioaccumulative

WGK (Wassergefährdungsklasse) : a German classification of substances that indicates the environmental hazard for surface water

*This information is to our knowledge correct and complete on the date of issue of this safety data sheet. The information only concerns the product and does not give any guarantee for the quality and the completeness of the properties of the product, or in case of mixing or using in any other process. It remains the responsibility of the user to assure himself that the information is suitable and complete concerning the special use he makes of the product.*

*We deny all responsibility for loss or damage resulting from the use of these data.*