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SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking			
1.1. Product identifier				
Product form	: Substance			
Substance name	: Sodium carbonate			
EC Index-No.	011-005-00-2			
EC-No.	207-838-8			
CAS-No.	: 497-19-8			
Type of product	: Pure substance, Hygroscopic substance. Preventive measures apply to the substance in dry state only			
Formula	: Na ₂ CO ₃			
Chemical structure	:			
	Na ⁺ 0 Na ⁺ -0 0 ⁻			
Synonyms : anhydrous soda / ash / bisodium carbonate / calcined soda(=sodium carbonate) / carbonate / disodium salt / carbonic acid sodium salt / CASWELL NO. 752 / chrystol carbonate / carbonate (=sodium carbonate) / disodium carbonate / natural ash / Na-X / snowlite ' (=sodium carbonate) / soda ash / soda, crystals / sodium carbonate, anhydrous / sod carbonate, anhydrous ASTM D458 / sodium carbonate, crude / sodium carbonate sodium carbonate, anhydrous powder / sodium carbonate, crude / sodium carbonate				
BIG no	: 10318			
1.2. Relevant identified uses of the subst	tance or mixture and uses advised against			
1.2.1. Relevant identified uses				
Use of the substance/mixture	: Chemical raw material Glass production: raw material Detergent: component Acidity regulator Paper production: auxiliary substance			
1.2.2. Uses advised against				
No additional information available				
1.3. Details of the supplier of the safety of	data sheet			
ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de				

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2 H319

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



: Warning

- Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)
- : H319 Causes serious eye irritation
- : P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

hemicals

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients				
3.1. Substances				
Name	Product identifier	%		
Sodium carbonate	(CAS-No.) 497-19-8 (EC-No.) 207-838-8 (EC Index-No.) 011-005-00-2	100		

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

4.1.	Description of first aid measure	
First-a	id measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respirate arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (ne warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
First-a	id measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-a	id measures after skin contact	: Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take vict to a doctor if irritation persists.
First-a	id measures after eye contact	: Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-a	id measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induc vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Doctor: gast lavage is not recommended.
4.2.	Most important symptoms and	fects, both acute and delayed
Sympt	oms/effects after inhalation	 AFTER INHALATION OF DUST: Dry/sore throat. Coughing. Slight irritation. EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties.
Sympt	oms/effects after skin contact	: Dry skin.
Sympt	oms/effects after eye contact	: Irritation of the eye tissue. Lacrimation.
Sympt	oms/effects after ingestion	: AFTER ABSORPTION OF HIGH QUANTITIES: Nausea. Abdominal pain. Irritation of the gastric/intestinal mucosa.
	oms/effects upon intravenous istration	: No effects known.
Chron	ic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Tingling/irritati of the skin. Affection of the nasal septum.

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

No additional information available



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SECTION 5: Fire-fighting measure	ures
5.1. Extinguishing media	
Suitable extinguishing media	: Adapt extinguishing media to the environment.
Unsuitable extinguishing media	: Solid water jet ineffective as extinguishing medium.
5.2. Special hazards arising from	the substance or mixture
Fire hazard	: DIRECT FIRE HAZARD. Non combustible.
Explosion hazard	: DIRECT EXPLOSION HAZARD. No direct explosion hazard.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: No specific fire-fighting instructions required.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECTION 6: Accidental release	measures
6.1. Personal precautions, protect	tive equipment and emergency procedures
6.1.1. For non-emergency personne	4
Protective equipment	: Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen
	apparatus. See "Material-Handling" to select protective clothing.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for con	tainment and cleaning up
For containment	: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.
Methods for cleaning up	: Prevent dust cloud formation. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and stora	
7.1. Precautions for safe handling	-J -
Precautions for safe handling	Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe norma hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) acids. metals. water/moisture.
Storage area	: Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Keep out of direct sunlight. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: aluminium. zinc.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls	personal protection
8.1. Control parameters	
Sodium carbonate (497-19-8)	

Sodium carbonate (497-19-8)

Local name

Carbonat de sodiu

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Sodium carbonate (497-19-8)		
Romania	OEL TWA (mg/m ³)	1 mg/m³
Romania	OEL STEL (mg/m ³)	3 mg/m ³

8.2. Exposure controls

Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: butyl rubber. PVC. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P1

SECTION 9: Physical and chemical properties					
9.1. Information on basic physical and chemical properties					
hysical state : Solid					
Appearance	: Crystalline solid. Crystalline powder. Grains. Lumps.				
Molecular mass	: 105.99 g/mol				
Colour	: Colourless to white.				
Odour	: Odourless.				
Odour threshold	: No data available				
рН	: 11.3 (10 g/l, 20 °C)				
pH solution	: 1%				
Relative evaporation rate (butylacetate=1)	: No data available				
Melting point	: 854 °C				
Freezing point	: No data available				
Boiling point	: No data available				
Flash point	: No data available				
Auto-ignition temperature	: > 400 °C				
Decomposition temperature	: 1600 °C				
Flammability (solid, gas)	: No data available				
Vapour pressure	: No data available				
Relative vapour density at 20 °C	: No data available				
Relative density	: 2.52-253,20 °C				
Density	÷ 2.53 g/cm ³ (20 °C)				
Solubility	: Exothermically soluble in water. Soluble in glycerol. Water: 212.5 g/l (20°C)				
Log Pow	: -6.19 (Estimated value)				
Viscosity, kinematic	: No data available				
Viscosity, dynamic	: No data available				
Explosive properties	: No data available				
Oxidising properties	: No data available				
Explosive limits	: No data available				
9.2. Other information					
VOC content	: Not applicable (inorganic)				
Other properties	: Hygroscopic. Substance has basic reaction.				

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts on exposure to water (moisture) with (some) metals. Upon combustion: CO and CO2 are formed. Violent exothermic reaction with (some) metals. Reacts with (strong) oxidizers. Violent exothermic reaction with (some) acids: release of harmful gases/vapours (carbon dioxide).

10.2. Chemical stability

Hygroso	Hygroscopic. Absorbs the atmospheric CO2.			
10.3.	Possibility of hazardous reactions			
No addi	tional information available			
10.4.	Conditions to avoid			
No addi	tional information available			
10.5.	Incompatible materials			
No addi	tional information available			
10.6.	Hazardous decomposition products			

No additional information available

SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity	: Not classified			
Sodium carbonate (497-19-8)				
LD50 oral rat	2800 mg/kg (Rat; Experimental value)			
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)			
Skin corrosion/irritation	: Not classified			
	pH: 11.6 (5.0 %)			
Serious eye damage/irritation	: Causes serious eye irritation.			
	pH: 11.6 (5.0 %)			
Respiratory or skin sensitisation	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
STOT-single exposure	: Not classified			
STOT-repeated exposure	: Not classified			
Aspiration hazard	: Not classified			

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Not classified as dangerous for the environment according to the criteria of Directive 67/548/EEC. Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse 5.2.1.
Ecology - water	: Maximum concentration in drinking water: 200 mg/l (sodium) (Directive 98/83/EC). Slightly harmful to fishes (LC50(96h) 100-1000 mg/l). Slightly harmful to invertebrates (EC50 (48h): 100 - 1000 mg/l). Practically non-toxic to algae (EC50 >100 mg/l). pH shift.
Sodium carbonate (497-19-8)	
LC50 fish 1 300 mg/l (LC50; Other; 96 h; Lepomis macrochirus; Static system; Fresh water; Exp value)	
Threshold limit algae 1	242 mg/l (EC50; 5 days; Algae)

12.2. Persistence and degradability

Sodium carbonate (497-19-8)		
Persistence and degradability	Biodegradability: not applicable. Low potential for adsorption in soil.	
ThOD	Not applicable (inorganic)	

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12.3. **Bioaccumulative potential** Sodium carbonate (497-19-8) Log Pow -6.19 (Estimated value) Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4) 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available Other adverse effects 12.6. No additional information available **SECTION 13: Disposal considerations** 13.1. Waste treatment methods Remove waste in accordance with local and/or national regulations. Hazardous waste shall not Product/Packaging disposal recommendations : be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Precipitate/make insoluble. Remove to an authorized dump (Class I). Do not discharge into drains or the environment. May be discharged to wastewater treatment installation. Additional information LWCA (the Netherlands): KGA category 05. Hazardous waste according to Directive : 2008/98/EC. European List of Waste (LoW) code : 16 05 07* - discarded inorganic chemicals consisting of or containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number		•		•
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippi	ng name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group	•			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental ha	azards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Sodium carbonate is not on the REACH Candidate List Sodium carbonate is not on the REACH Annex XIV List

VOC content

: Not applicable (inorganic)

15.1.2. National regulations

Germany

VwVwS Annex reference

WGK remark

- Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 222)
 Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender
- 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

Stoffe (VwVwS) of 27 July 2005 (Anhang 2)

: 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.

Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H319	Causes serious eye irritation	

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SDS ISOLAB

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product