(in accordance with Regulation (EU) 2020/878)

pH+



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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: 0020-pH+

 Product Code:
 03111-03109-03109

 Chemical Name:
 sodium carbonate

 Index No:
 011-005-00-2

 CAS No:
 497-19-8

 EC No:
 207-838-8

Registration No: 01-2119485498-19-XXXX

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

pH regulator

Uses advised against:

Uses other than those recommended.

Exposure scenarios covering uses can be found in the Annex.

1.3 Details of the supplier of the safety data sheet.

Company: Fluidra Comercial España

Address: Av. Alcalde Barnils, 69 City: 08174 Sant Cugat del Vallès

Province: Barcelona (España)
Telephone: telf: 902 42 32 22
Fax: +34 93 713 41 11
E-mail: fds@inquide.com
Web: www.ctxprofessional.com

1.4 Emergency telephone number: (Only available during office hours; Monday-Friday; 08:00-18:00)

Anti poisoning centre:

ITALY (Rome): 06/305 43 43 ITALY (Milan): 02/66 10 10 29 SPAIN: +34 91 562 04 20

FRANCE (Paris): 01 40 05 48 48 FRANCE (Tolousse): 05 61 77 74 47 FRANCE (Marseille): 04 91 75 25 25

PORTUGAL: 808 250 143

BELGIQUE (Brussel): (+32) 070 245 245

Sweden: 112 - Begär Giftinformation (ask for Poisons Information)

Denmark (Giftlinjen): +45 8212 1212

Finland: 0800 147 111 Norway: +47 22 59 13 00

Cyprus: 1401

Greece: (0030) 2107793777

Netherlands (NVIC): +31 (0)88 755 8000

Romania: +4021 318 360 6 Biroul RSI Si Informare Toxicologica

Apelabil de luni pâna vineri, între orele 8.00-15.00

CAV accreditati: Roma +39 06 68 59 3726; Foggia +39 800 18 34 59; Napoli +39 081 54 53 333; Roma +39 06 49 97 80 00; Roma +39 06 30 54 343; Firenze +39 055 79 47 819; Pavia +39 0382 24 444; Milano +39 02 66 10 10 29; Bergamo +39 800 88 33 00; Verona +39 800 01 18 58.

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

In accordance with Regulation (EU) No 1272/2008:

Eye Irrit. 2: Causes serious eye irritation.

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2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.
P264 Wash hands thoroughly after handling.
P280 Wear protective eye and 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.

Contains:

sodium carbonate

2.3 Other hazards.

The substance is not PBT The substance is not vPvB

Substance does not have endocrine disrupting properties.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

			(*)Classification - Regulation (EC) No 1272/2008	
Identifiers	Name	Concentrate	Classification	Specifics concentration limits and Acute toxicity estimate
Index No: 011-005- 00-2 CAS No: 497-19-8 EC No: 207-838-8	sodium carbonate	10 - 100 %	Eye Irrit. 2, H319	-

3.2 Mixtures.

Not Applicable.

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SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Dont let the person to rub the affected eye.

Skin contact

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

SECTION 5: FIREFIGHTING MEASURES.

The product is NOT classified as flammable, in case of fire the following measures should be taken:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

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6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3 Methods and material for containment and cleaning up.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 ° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

PH regulator for swimming pool water

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %	
Uses:	pH regulator	
Breathing protection:		
If the recommended technical measures are observed, no individual protection equipment is necessary.		
Hand protection:		
If the product is handled correctly, no individual protection equipment is necessary.		
Eye protection:		

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If the product is handled correctly, no individual protection equipment is necessary.

Skin protection:

PPE: Work footwear.

Characteristics: «CE» marking, category II. CEN standards: EN ISO 13287, EN 20347

Maintenance: This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should

not be used by other people.

Observations: Work footwear for professional use includes protection elements aimed at protecting users against any

injury resulting from an accident

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Physical state: Solid Colour: White Odour: Odourless

Odour threshold: Not applicable/Not available due to the nature/properties of the product

Melting point: 851 °C

Freezing point: Not applicable/Not available due to the nature/properties of the product

Boiling point or initial boiling point and boiling range: Not applicable/Not available due to the nature/properties of the product

Flammability: Not applicable/Not available due to the nature/properties of the product Lower explosion limit: Not applicable/Not available due to the nature/properties of the product Upper explosion limit: Not applicable/Not available due to the nature/properties of the product

Flash point: Not applicable/Not available due to the nature/properties of the product

Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product Decomposition temperature: Not applicable/Not available due to the nature/properties of the product

pH: 11,17 (0,4%)

Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product

Solubility: Not applicable/Not available due to the nature/properties of the product

Hydrosolubility: 215 g/l (20°C)

Liposolubility: Not applicable/Not available due to the nature/properties of the product

Partition coefficient n-octanol/water (log value): Not applicable/Not available due to the nature/properties of the product

Vapour pressure: Not applicable/Not available due to the nature/properties of the product Absolute density: Not applicable/Not available due to the nature/properties of the product

Relative density: 2,52 (20 °C)

Relative vapour density: Not applicable/Not available due to the nature/properties of the product Particle characteristics: Not applicable/Not available due to the nature/properties of the product

9.2 Other information

Viscosity: Not applicable/Not available due to the nature/properties of the product

Explosive properties: Not applicable/Not available due to the nature/properties of the product

Oxidizing properties: No

Dropping point: Not applicable/Not available due to the nature/properties of the product

Blink: Not applicable/Not available due to the nature/properties of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Unstable in contact with:

- Acids.

10.3 Possibility of hazardous reactions.

Neutralization can occur on contact with acids.

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10.4 Conditions to avoid.

- Avoid contact with acids.

10.5 Incompatible materials.

Avoid the following materials:

- Acids.

10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- Corrosive vapors or gases.

SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT MIXTURE. Splashes in the eyes can cause irritation.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Toxicological information.

Name	Acute toxicity			
Name	Туре	Test	Kind	Value
	Oral		, ,	2800 mg/kg bw [1] cute Oral Toxicity Study in rces Unit, Bio/dynamics Inc., May
sodium carbonate	Dermal	LD50 [1] Rinehar		2000 mg/kg bw [1] ermal Toxicity Study in Rabbits, Jnit, Bio/dynamics Inc., 1978.
CAS No: 497-19-8 EC No: 207-838-8	Inhalation	LC50	Mouse	1.2 mg/l (2 h)

a) acute toxicity;

Not conclusive data for classification.

b) skin corrosion/irritation;

Not conclusive data for classification.

c) serious eye damage/irritation;

Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation;

Not conclusive data for classification.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Test: Reproductive Toxicity - Route: Oral = 179 mg/kg

sodium carbonate - CAS: 497-19-8

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h) STOT-single exposure; Not conclusive data for classification.

i) STOT-repeated exposure; Not conclusive data for classification.

j) aspiration hazard; Not conclusive data for classification.

11.2 Information on other hazards.

Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
Name	Туре	Test	Kind	Value
		LC50	Lepomis macrochirus	300 mg/L (96 h) [1] [2]
sodium carbonate	[1] Cairns J, Scheier A (1959). The rela bluegill sunfish body size to tolerance for chemicals. Proc. 13th Ind. Work. Conf., Engineering Bull., 43, 242-253. [2] McKee & Wolf (1963). Water quality California State Water Resources Control 3-A.		erance for some common c. Conf., Purdue Univ., r quality criteria.	
	Aquatic invertebrates	detergent c contribution 44, 196-20 [2] Dowder	components to a fres n to detergent toxicit 6. n BF, Bennett HJ (19	200 mg/L (48 h) [1] 600 mg/L (48 h) [2] 9). Toxicity of laundry hwater cladoceran and their cy. Ecotoxicol. Environ. Saf., 65). Toxicity of selected burnal WPCF, 37, 1308-1316.
CAS No: 497-19-8	Aquatic plants			

12.2 Persistence and degradability.

No information is available regarding the biodegradability

No information is available on the degradability

No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation.

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

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Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

12.7 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number or ID number.

Transportation is not dangerous.

14.2 UN proper shipping name.

Description:

ADR/RID: Not classified as hazardous for transport. IMDG: Not classified as hazardous for transport.

ICAO/IATA: Not classified as hazardous for transport.

14.3 Transport hazard class(es).

Transportation is not dangerous.

14.4 Packing group.

Transportation is not dangerous.

14.5 Environmental hazards.

Transportation is not dangerous.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): Not applicable.

14.6 Special precautions for user.

Transportation is not dangerous.

14.7 Maritime transport in bulk according to IMO instruments.

Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC)

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VOC content (p/p): 0 % VOC content: 0 g/l

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Kind of pollutant to water (Germany): WGK 1: Slightly hazardous to water. (Autoclassified according to the AwSV Regulations)

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier. Available Product Exposure Scenario.

SECTION 16: OTHER INFORMATION.

Classification codes:

Eye Irrit. 2 : Eye irritation, Category 2

Changes regarding to the previous version:

- Modification of specific hazards (SECTION 2.3).
- Modification in the firefighting measures (SECTION 5.2).
- Modifications in the accidental release measures (SECTION 6.1).
- Modification in the values of the physical and chemical properties (SECTION 9).
- Change in the hazard classification (SECTION 11.1).
- Modification of the classification ADR/IMDG/ICAO/IATA/RID (SECTION 14).
- National legislative changes (SECTION 15.1).

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards On basis of test data Health hazards Calculation method Environmental hazards Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Available Product Exposure Scenario.

Abbreviations and acronyms used:

AwSV: Facility Regulations for handling substances that are hazardous for the water.

CEN: European Committee for Standardization.
EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%. WGK: Water hazard classes.

Key literature references and sources for data:

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http://eur-lex.europa.eu/homepage.html http://echa.europa.eu/ Regulation (EU) 2020/878. Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

Exposure Scenario for communication:				
ES 1: Manufacturing of sodium carbonate				
0. General information				
Version no 01 Revision date 28.3 EC # 207	rsion no 01 vision date 28.10.2010 # 207-838-8			
1. Use descriptors				
Manufacturing of sodium carbonate				
Market sector: SU 3 (Industrial uses) Sector of use: SU 8 (Manufacture of bulk, large scale of	chemicals)			
Environment: (Environmental Release Category) Man	nufacture of substances	ERC 1		
Worker (Process Category -Phrase)				
Use in closed process, no likelihood of exposure PROC 1				
Use in closed, continuous process with occasional controlled exposure PROC 2				
Use in closed batch process (synthesis or formulation) PROC 3				
Use in batch and other process (synthesis) where opportunity for exposure arises PROC 4				
Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities				
Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 8b				
Transfer of substance or preparation into small contain	Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC 9			
Potentially closed processing operations with mineral	ls/metals at elevated temperature	PROC 22		
Processes, tasks, activities covered				
Manufacturing, maintenance, loading, packaging, sampling and monitoring.				
2. Conditions of use affecting exposure				
2.0 Default Product Characteristics				
Physical form of product/article	Physical form of product/article Solid			
Volatility	Volatility Not relevant			
Dustiness	Medium (PROCs 1, 2, 3, 4, 8a, 8b, 9) Low (PROC 22)			
2.1. Control of environmental exposure:				
Manufacture of substances – ERC 1				

Amounts used

Annual site tonnage (tonnes/year): up to 1 500 000.

Frequency and duration of use

Continuous

Other given operational conditions affecting environmental exposure

Not applicable.

Technical and organizational conditions and measures

See section 8 of Safety data sheet.

Conditions and measures related to municipal sewage treatment plant

Wastewater streams from sodium carbonate production sites contain inorganic substances and are therefore not treated in sewage treatment plants.

Conditions and measures related to external treatment of waste

In Chapter 2.3.5 of the Reference Document on Best Available Techniques for the Manufacture of Large Volume Inorganic Chemicals - Solids and Others Industry (EC, 2007) two types of solid waste, generated during the manufacturing of sodium carbonate, are discussed. Both types of solid waste originate from raw materials and the concentration of sodium carbonate in the solid waste is negligible. For this reason specific waste related measures are not needed.

Additional good practice advice beyond the REACH CSR (Chemical Safety Report)

See sections 6 and 13 of Safety Data Sheet

2.2. Control of workers exposure

Valid for PROCs 1, 2, 3, 4, 8a, 8b, 9, 22.

Amounts used, frequency and duration of use

Amounts used	Not Relevant Parameter does not influence exposure estimations for this ES
Frequency and duration of use	Daily 8h/day

Technical and organizational conditions and measures

See section 8 of Safety Data Sheet.

Ensure workers are trained to minimize exposures.

Additional good practice advice beyond the REACH CSR (Chemical Safety Report)

See sections 7 and 8 of Safety Data Sheet

3. Exposure estimation and reference to its source

3.1 Environment exposure estimation and reference to its source

The table below gives the summary of the environment exposure estimation made in the Chemical Safety Report, referring to Document on Best Available Techniques for the Manufacture of Large Volume Inorganic Chemicals - Solids and Others Industry.

Compartments	Measured release (kg/d)	Explanation / source of measured data
Aquatic	Negligible	Reference Document on Best Available Techniques (EC, 2007)
Air (direct)	2.2 - 118	
Soil (direct only)	Negligible	Reference Document on Best Available Techniques (EC, 2007)

3.2 Workers exposure estimation and reference to its source

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Production of sodium carbonate: long-term exposure concentrations to workers

Routes of exposure	Exposure concentrations (mg/m³)	Explanation / source of measured data (Characteristics, Duration, Frequency, OC and RMM described above)
Modeled exposure da	ita	
Dermal exposure	Not relevant	No assessment for dermal exposure because of no local skin effects and no systemic availability after dermal contact.
Inhalation exposure	0.01	ECETOC TRA V2. PROC 1
	0.5	ECETOC TRA V2. PROC 2
	1	ECETOC TRA V2. PROC 3
	5	ECETOC TRA V2. PROC 4
	5	ECETOC TRA V2. PROC 8a
	5	ECETOC TRA V2. PROC 8b
	5	ECETOC TRA V2. PROC 9
	1	ECETOC TRA V2. PROC 22
Measured exposure d	ata	
Inhalation exposure	7.9	An extensive set (in total: 698 observations) of worker exposure data from 4 sites that manufacture sodium carbonate. Measurements are representative for a workday of 8 hours.

4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

4.1 Environment.

Not Applicable: this scenario does not concern DU.

4.2 Health.

Not Applicable: this scenario does not concern DU.

Substance: Sodium Carbonate; EC: 207-838-8; CAS: 497-19-8					
Exposure Scenario for communication:					
ES 2: Glass production					
0. General information					
ES identifier Version no Revision date EC # CAS #	ES 2 01 28.10.2010 207-838-8 497-19-8				
1. Use descriptors					
Glass Production					
Market sector: SU 3 (Industrial uses) Sector of use: SU 3 (Industrial uses)					
Environment : (Environmental Release Category) I another substance (use of intermediates)	Industrial use resu	ulting in manufacture of	ERC 6a		
Worker (Process Category -Phrase)					
Use in closed process, no likelihood of exposure PROC 1			PROC 1		
Use in closed, continuous process with occasional controlled exposure PROC 2			PROC 2		
Use in closed batch process (synthesis or formula	tion)		PROC 3		
Use in batch and other process (synthesis) where	opportunity for e	exposure arises	PROC 4		
Transfer of substance or preparation (charging/dinon-dedicated facilities					
Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 8b			PROC 8b		
Potentially closed processing operations with min	Potentially closed processing operations with minerals/metals at elevated temperature PROC 22				
Open processing and transfer operations with minerals/metals at elevated temperature PROC 23			PROC 23		
Handling of solid inorganic substances at ambient temperature. PROC 26			PROC 26		
Processes, tasks, activities covered					
Manufacturing, maintenance, loading, packaging, sampling and monitoring.					
2. Conditions of use affecting exposure					
2.0 Default Product Characteristics		6.11.1			
Physical form of product/article Solid					
Volatility Not relevan			int		

Dustiness	Medium (PROCs 1, 2, 3, 4, 8a, 8b, 26)
	High (PROCs 22 and 23)

Mixture Article Concentration

For PROCs 1, 2, 3, 4, 8a, 8b and 26 the neat substance is taken into account, because the neat substance is transferred to the process.

Percentage of 5-25% sodium carbonate in the mixture during the melting process is assumed.

2.1. Control of environmental exposure:

Use as intermediate: industrial use resulting in manufacture of another substance.

Amounts used

Up to 200 000 tonnes/year.

Frequency and duration of use

Continuous.

Other given operational conditions affecting environmental exposure

The impact of glass manufacturing on the environment has been described extensively in the Reference Document on Best Available Techniques in the Glass Manufacturing Industry (EC, 2001). The document was established in the context of the EU Directive on Integrated Pollution Prevention and Control (Directive 96/61/EC).

Technical and organizational conditions and measures

See section 8 of Safety Data Sheet.

In case of dust formation, use filter to reduce atmospheric emissions.

Conditions and measures related to municipal sewage treatment plant

Wastewater streams of the glass industry do not contain sodium carbonate as it is stored in covered silos and not linked to internal sewage systems. For this reason an emission assessment for the sewage treatment plant is not needed for the industrial end use of sodium carbonate in the glass industry.

Conditions and measures related to external treatment of waste

No specific waste related measures are to be defined.

Additional good practice advice beyond the REACH CSA

See sections 6 and 13 of Safety Data Sheet

2.2. Control of workers exposure

Valid for PROCs 1, 2, 3, 4, 8a, 8b, 9, 22, 26.

Amounts used, frequency and duration of use

Amounts used	Not Relevant Parameter does not influence exposure estimations for this ES
Frequency and duration of use	Daily 8h/day

Technical and organisational conditions and measures

See section 8 of Safety Data Sheet

Additional good practice advice beyond the REACH CSR (Chemical Safety Report)

See sections 7 and 8 of Safety Data Sheet

3. Exposure estimation and reference to its source

3.1 Environment exposure estimation and reference to its source

The table below gives the summary of the environment exposure estimation made in the Chemical Safety Report, referring to Document on Best Available Techniques in the Glass Manufacturing Industry (EC, 2001).

Compartments	Measured release (kg/d)	Explanation / source of measured data
Aquatic	Negligible	Reference Document on Best Available Techniques (EC, 2001)
Air (direct)	Negligible	Reference Document on Best Available Techniques (EC, 2001)
Soil (direct only)	Negligible	Reference Document on Best Available Techniques (EC, 2001)

3.2 Workers exposure estimation and reference to its source

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Glass production: long-term exposure concentrations to workers

Glass production: long-term exposure concentrations to workers		
Routes of exposure		Explanation / source of measured data (Characteristics, Duration, Frequency, OC and RMM described above)
Dermal exposure	Not relevant	No assessment for dermal exposure because of no local skin effects and no systemic availability after dermal contact.
	0.01	ECETOC TRA V2. PROC 1
Inhalation assesses	0.5	ECETOC TRA V2. PROC 2
Inhalation exposure	1	ECETOC TRA V2. PROC 3
	5	ECETOC TRA V2. PROC 4
	5	ECETOC TRA V2. PROC 8a
	5	ECETOC TRA V2. PROC 8b
1 ECETOC TRA V2. PROC 22a		ECETOC TRA V2. PROC 22a
	1	ECETOC TRA V2. PROC 23a

PROC26 is not foreseen in ECETOC TRA but it involves activities which are described by PROC 8a and 8b. Therefore the calculation with PROC 8a and 8b covers PROC 26.

4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

4.1 Environment.

Predicted exposures are not expected to exceed the DNEL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

4.2 Health.

Predicted exposures are not expected to exceed the DNEL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Substance: Sodium Carbonate; EC: 207-838-8; CAS: 497-19-8

Exposure Scenario for communication:

ES 3: Formulation

0. General information

ES identifier	ES 3
Version no	01
Revision date	28.10.2010
EC#	207-838-8
CAS#	497-19-8

1. Use descriptors

Formulation

weighing)

Market sector: SU 3 (Industrial uses)

Sector of use: SU 10 (Formulation [mixing] of preparations and/or re-packaging (excluding alloys))

Environment: (Environmental Release Category) Formulation of preparations ERC 2

Worker (Process Category -Phrase)

Worker (Process Category -Phrase)	
Use in closed process, no likelihood of exposure	PROC 1
Use in closed, continuous process with occasional controlled exposure	PROC 2
Use in closed batch process (synthesis or formulation)	PROC 3
Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)	PROC 5
Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities	PROC 8a
$Transfer\ of\ substance\ or\ preparation\ (charging/discharging)\ from/to\ vessels/large\ containers\ at\ dedicated\ facilities$	PROC 8b
Therefore for his transport of the first of the small contribution (Ad. Pertod CIP of Production)	

Transfer of substance or preparation into small containers (dedicated filling line, including

PROC 9

Production of preparations or articles by tabletting, compression, extrusion, pelletisation

PROC 15

PROC 14

Processes, tasks, activities covered

Use as laboratory reagent

storage, materials transfers, mixing, maintenance, sampling and associated laboratory activities.

2. Conditions of use affecting exposure

2.0 Default Product Characteristics

Physical form of product/article	Solid	
Volatility	Not relevant	
Dustiness	Medium	

Mixture Article Concentration

Not relevant: for exposure estimation the neat substance is taken into account, because the neat substance is added to the formulation process.

2.1. Control of environmental exposure:

Formulation of preparations – ERC 2

SPERC (AISE, 2010E) are also used (http://www.aise.eu/reach/exposureass_sub4.htm).

Amounts used

Up to 5 000 tonnes/year

Frequency and duration of use

Continuous

Other given operational conditions affecting environmental exposure

See sections 8 and 13 of Safety Data Sheet

Technical and organizational conditions and measures

In case of dust formation, use filter to reduce atmospheric emissions.

Conditions and measures related to municipal sewage treatment plant

Control the pH of the liquid effluent if the effluent is sent to STP.

Conditions and measures related to external treatment of waste

No specific waste related measures are to be defined.

Additional good practice advice beyond the REACH CSA

See sections 6 and 13 of Safety Data Sheet

2.2. Control of workers exposure

Valid for PROCs 1, 2, 3, 5, 4, 8a, 8b, 9, 14, 15.

Amounts used, frequency and duration of use

		Not Relevant Parameter does not influence exposure estimations for this ES	
	Frequency and duration of use	Daily 8h/day	

Technical and organisational conditions and measures

See section 8 of Safety Data Sheet

Additional good practice advice beyond the REACH CSR (Chemical Safety Report)

See sections 7 and 8 of Safety Data Sheet

3. Exposure estimation and reference to its source

3.1 Environment exposure estimation and reference to its source

The table below gives the summary of the environment exposure estimation made in the Chemical Safety Report and in Specific Environmental Release Categories (SPERC) (AISE, 2010):

Compartments	Measured release (kg/d)	Explanation / source of data
Aquatic	Negligible	
Air (direct)	2.7	Specific Environmental Release Categories (SPERC) (AISE, 2010)
Soil (direct only)	Negligible	Specific Environmental Release Categories (SPERC) (AISE, 2010)

3.2 Workers exposure estimation and reference to its source

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Formulation: long-term exposure concentrations to worker

Routes of exposure	Estimated exposure concentrations (mg/m³)	Explanation / source of measured data (Characteristics, Duration, Frequency, OC and RMM described above)
Dermal exposure	Not relevant	No assessment for dermal exposure because of no local skin effects and no systemic availability after dermal contact.
Inhalation exposure	0.01	ECETOC TRA V2. PROC 1
	0.5	ECETOC TRA V2. PROC 2
	1	ECETOC TRA V2. PROC 3
	5	ECETOC TRA V2. PROC 4
	5	ECETOC TRA V2. PROC 5
	5	ECETOC TRA V2. PROC 8a
	5	ECETOC TRA V2. PROC 8b
	5	ECETOC TRA V2. PROC 9
	1	ECETOC TRA V2. PROC 14
	0.5	ECETOC TRA V2. PROC 15

4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

4.1 Environment.

Predicted exposures are not expected to exceed the DNEL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

4.2 Health.

Predicted exposures are not expected to exceed the DNEL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Substance: Sodium Carbonate ; EC : 207-838-8 ; CAS : 497-19-8			
Exposure Scenario for communication:			
ES 4: Other industrial and professional uses			
0. General information			
ES identifier	ES 4		
Version no	01		
Revision date	28.10.2010		
EC#	207-838-8		
CAS#	497-19-8		
1. Use descriptors			
1.1 Industrial end uses			
Market sector: SU 3 (Industrial uses) Sector of use: No restriction (SUs 0-20, 23, 24)			
Environment: (Environmental Release Category	')		
Formulation of preparations	ERC 4		
Industrial use resulting in inclusion into or onto a matrix		ERC 5	
Industrial use resulting in manufacture of another substance (use of intermediates)		ERC 6a	
Industrial use of reactive processing aids	ERC 6b		
Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers		ERC 6d	
Industrial use of sub-stances in closed systems	ERC 7		
Worker (Process Category -Phrase)			
Use in closed process, no likelihood of exposure		PROC 1	
Use in closed, continuous process with occasional controlled exposure		PROC 2	
Use in closed batch process (synthesis or formulation)		PROC 3	
Use in batch and other process (synthesis) where opportunity for exposure arises		PROC 4	
Spraying in industrial settings and applications		PROC 7	
Transfer of substance or preparation (charging/ non-dedicated facilities	PROC 8a		
Transfer of substance or preparation (charging/	PROC 8b		

Transfer of substance or preparation into small containers (dedicated filling line, including

dedicated facilities

weighing)

PROC 9

Roller application or brushing of adhesive and other coating	PROC 10
Treatment of articles by dipping and pouring	PROC 13
Use as laboratory reagent	PROC 15
Lubrication at high energy conditions and in partly open process	PROC 17
Greasing at high energy conditions	PROC 18
Hand-mixing with intimate contact and only PPE available	PROC 19
Potentially closed processing operations with minerals/metals at elevated temperature. The process temperature is higher than the melting point (High fugacity)	PROC 22
Open processing and transfer operations with minerals/metals at elevated temperature. The process temperature is higher than the melting point (High fugacity)	PROC 23
Handling of solid inorganic substances at ambient temperature	PROC 26
Processes, tasks, activities covered: Manufacturing, mixing, maintenance, loading, packaging, sampling and monitoring.	
1.2 Professional end uses	
Market sector: SU 22 (Professional uses) Sector of use: SU 22 (Professional uses)	
Environment: (Environmental Release Category)	
Wide dispersive indoor use of processing aids in open systems	ERC 8a
Wide dispersive indoor use of reactive substances in open systems	ERC 8b
Wide dispersive indoor use resulting in inclusion into or onto a matrix	ERC 8c
Wide dispersive outdoor use of processing aids in open systems	ERC 8d
Wide dispersive outdoor use of reactive substances in open systems	ERC 8e
Wide dispersive outdoor use resulting in inclusion into or onto a matrix	ERC 8f
Wide dispersive indoor use of substances in closed systems	ERC 9a
Wide dispersive outdoor use of substances in closed systems	ERC 9b
Worker (Process Category -Phrase)	
Use in closed process, no likelihood of exposure	PROC 1
Use in closed, continuous process with occasional controlled exposure	PROC 2

Use in batch and other process (synthesis) where opportunity for exposure arises	PROC 4
Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities	PROC 8a
Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	PROC 8b
Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	PROC 9
Roller application or brushing of adhesive and other coating	PROC 10
Non industrial spraying	PROC 11
Treatment of articles by dipping and pouring	PROC 13
Use as laboratory reagent	PROC 15
Hand-mixing with intimate contact and only PPE available	PROC 19

Processes, tasks, activities covered

Manufacturing, mixing, maintenance, loading, packaging, sampling and monitoring.

2. Conditions of use affecting exposure

2.0 Default Product Characteristics

Physical form of product/article	Solid
Volatility	Not relevant
Dustiness	Medium (PROCs 1, 2, 3, 4, 8a, 8b, 9, 15, 19)
Dustiness	High (PROCs 22 and 23)

2.1. Control of environmental exposure:

Industrial end uses: ERC4, ERC5, ERC 6a/6b/6d, ERC 7.

Professional end uses: ERC 8a/8b/8c/8d/8e/8f; ERC 9a/9b.

Amounts used

Industrial use up to 100 000 tonnes/year.

Professional use much lower

Frequency and duration of use

Up to continuous.

Other given operational conditions affecting environmental exposure

See sections 8 and 13 of Safety Data Sheet

Technical and organizational conditions and measures

In case of dust formation, use filter to reduce atmospheric emissions.

Conditions and measures related to municipal sewage treatment plant

Control the pH of the liquid effluent if the effluent is sent to STP.

Conditions and measures related to external treatment of waste

No specific waste related measures are to be defined.

Additional good practice advice beyond the REACH CSR (Chemical Safety Report)

See sections 6 and 13 of Safety Data Sheet

2.2. Control of workers exposure

Valid for PROC 1-4, 7, 8a, 8b, 9, 10, 11, 13, 15, 17, 18, 19, 22, 23, 26.

Amounts used, frequency and duration of use

Amounts used

Not Relevant
Parameter does not influence exposure
estimations for this ES

Frequency and duration of use (Exposure Frequency Duration)

Operational conditions related to the duration of use	Process Category	Industrial (Data Field)	Professional (Data Field)
	PROC 1		Less than 15 min/day
	PROC 2		Less than 15 min/day
	PROC 3	> 4 hours/day (liquid mixture)	
	PROC 4		> 4 hours/day
	PROC 7	> 4 hours/day (liquid mixture)	
	PROC 8a		15 min/day to 1 hour/day
	PROC 8b		15 min/day to 1 hour/day
Duration of exposure per day at workplace [for one worker]	PROC 9	> 4 hours/day (liquid mixture)	
,	PROC 10		> 4 hours/day
	PROC 11		> 4 hours/day
	PROC 13		15 min/day to 1 hour/day
	PROC 15		15 min/day to 1 hour/day
	PROC 17	> 4 hours/day (liquid mixture)	
	PROC 18	> 4 hours/day (liquid mixture)	
	PROC 19		15 min/day to 1 hour/day

PROC26 is not foreseen in ECETOC TRA but it involves activities which are described by PROC 8a and 8b. Therefore the calculation with PROC 8a and 8b covers PROC 26.

Technical and organisational conditions and measures

See section 8 of Safety Data Sheet.

Additional good practice advice beyond the REACH CSR (Chemical Safety Report)

See sections 7 and 8 of Safety Data Sheet

3. Exposure estimation and reference to its source

3.1 Environment exposure estimation and reference to its source

The table below gives the summary of the environment exposure estimation made in the Chemical Safety Report:

Compartments	Measured release (kg/d)	
Aquatic	Negligible	
Air (direct)	Small releases might be possible	
Soil (direct only)	Negligible in all cases except agricultural use Max application use rates of soda ash as co-formulant in plant protection products: Professional agricultural: 0.0126 kg/ ha (tier 1 default use rate: 1 kg/ ha)	

3.2 Workers exposure estimation and reference to its source

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Routes of exposure	Explanation / source of	Industrial	Professional estimated
	measured data	estimated	Exposure concentrations
	(Characteristics, Duration	exposure	(mg/m³)
	Frequency, OC and RMM	concentrations	
	described above)	(mg/m³)	
Dermal exposure	No local effects and no systemic	Not relevant	Not relevant
	availability after dermal contact		
	PROC 1	0.01	0.0044 (liquid)
			0.001 (solid)
	PROC 2	0.5 (solid)	0.044 (liquid)
			0.1 (solid)
	PROC 3	1 (solid)	0.044 (liquid)
	PROC 4	5	0.044 (liquid)
			5 (solid)
	PROC 7	0.022	
	PROC 8a	5	0.088 (liquid)
			1 (solid)
	PROC 8b	5 (solid)	0.088 (liquid)
	PROC 9	5 (solid)	0.044 (liquid)
	PROC 10		0.44 (liquid mixture only)
Inhalation exposure	PROC 11		0.44 (liquid mixture only)
	PROC 13		0.088 (liquid mixture only)
	PROC 15	5 (solid)	0.088 (liquid mixture only)
	PROC 17	0.022 (liquid	
		mixture only)	
	PROC 18	0.022 (liquid	
		mixture)	
	PROC 19	5	0.088 (liquid)
			1 (solid)
	PROC 22	1	
	PROC 23	1	
	Professional agricultural with		
	solid mixture, outdoor, no PPE		0.142 (solid)
	(ECPA OWB Tier 1: default use		
	rate)		

PROC 26 is not foreseen in ECETOC TRA but it involves activities which are described by PROC 8a and 8b. Therefore the calculation with PROC 8a and 8b covers PROC 26.

4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

4.1 Environment.

Predicted exposures are not expected to exceed the DNEL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

4.2 Health

Predicted exposures are not expected to exceed the DNEL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Substance: Sodium Carbonate; EC: 207-838-8; CAS: 497-19-8

Exposure Scenario for communication:

ES 5: Consumer use

0. General information

ES identifier ES 5 Version no 01

Revision date 28.10.2010 EC # 207-838-8 CAS # 497-19-8

1. Use descriptor

Consumer use

Market sector: SU 21 Consumer uses: Private households (= general public = consumers)
Sector of use: SU 21 Consumer uses: Private households (= general public = consumers)

Environment:

Environmental Release Category: ERC 8 a/b/c/d/e/f; ERC 9 a/b.

Product Category (PC): No restriction (from PC 0 to PC 40)

Process Category: Not applicable

Processes, tasks, activities covered

Cleaning activities

2. Conditions of use affecting exposure

2.0 Default Product Characteristics

Physical form of product/article	Solid or dissolved in water	
Volatility	Not relevant	
Dustiness	Medium for powdered detergents, low for	
Dustilless	household soda	

Mixture Article Concentration

Laundry detergents and surface cleaners: 30%

Machine dish washing tablets: 45%

Household soda (pure sodium carbonate decahydrate): 37% content of sodium carbonate

Surface cleaning sprays: 10% Air care products: 5% (PC 3)

Furniture, floor and leather care: 10% (PC 31)

2.1. Control of environmental exposure:

Consumer use – ERC 8 a/b/c/d/e/f; ERC 9 a/b.

Amounts used

Not relevant as the exposure is estimated to be negligible

Frequency and duration of use

Not relevant as the exposure is estimated to be negligible

Other given operational conditions affecting environmental exposure

See sections 8 and 13 of Safety Data Sheet

Technical and organizational conditions and measures

See section 8 of Safety Data Sheet

Conditions and measures related to municipal sewage treatment plant

See section 13 of Safety Data Sheet

Conditions and measures related to external treatment of waste

See section 13 of Safety Data Sheet

Additional good practice advice beyond the REACH CSR (Chemical Safety Report)

See sections 6 and 13 of Safety Data Sheet

2.2. Control of consumers exposure

Amounts used, frequency and duration of use

Amounts used		Household soda: 37 g/l (worst case)	
Frequency and duration of use		Household soda: one time per week (frequency) and 5 min (duration) (worst case)	

Technical and organisational conditions and measures

Keep out of reach of children and avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Additional good practice advice beyond the REACH CSR (Chemical Safety Report)

See sections 7 and 8 of Safety Data Sheet

3. Exposure estimation and reference to its source

3.1 Environment exposure estimation and reference to its source

The table below gives the summary of the environment exposure estimation made in the Chemical Safety Report, referring to HERA (2005a) and to Specific Environmental Release Categories (SPERC) (AISE, 2010).

Compartments	Measured release (kg/d)	Explanation / source of measured data
Aquatic	Negligible	HERA (2005a); see section 9.5.2.3.2
Air (direct)	ir (direct) Negligible Specific Environmental Release Categories (SPERC) (AISE, 2010)	
Soil (direct only)	Negligible	Specific Environmental Release Categories (SPERC) (AISE, 2010)

3.2 Consumers exposure estimation and reference to its source

Exposures have been calculated with the software tool REACT (Reach Exposure Assessment Consumer Tool)

Long-term dermal exposure to consumers:

Product category	Ingredient fraction by weight	Estimated uptake value (mg/kg bw per day)
Laundry regular (AISE C1, PC35), Powder	0.3	1.56E-02
Laundry regular (AISE C1, PC35), Liquid	0.3	2.29E-02

Laundry compact (AISE C2, PC35), Powder	0.3	1.60E-02
Laundry compact (AISE C2, PC35), Liquid/Gel	0.3	2.29E-02
Laundry additives (AISE C4, PC35), Liquid Bleach	0.3	2.21E-02
Hand Dishwashing (AISE C5, PC35)	0.3	3.12E-04
Surface cleaners (AISE C7, PC35), Gel	0.3	4.29E-02

The negligible inhalation has been confirmed for the laundry washing scenario reported by HERA (2005a).

4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

4.1 Environment.

Predicted exposures are not expected to exceed the DNEL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

4.2 Health.

Predicted exposures are not expected to exceed the DNEL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.