Certificate of Analysis

Product **Sodium bicarbonate**

Batch **4490909**
Best Before Date **December 2025**

Characteristic	Unit	Value	Lower Limit	Upper Limit
Ammonium detection		In Compliance	-	-
Total alkalinity in NaHCO3	%	100,3	99,0	
Na2CO3	%	0,50	-	1,00
Humidity	%	< 0,10	-	0,25
pH 1% solution		8,25	8,00	8,60
Arsenic	mg/kg	< 0,1	-	2,0
Iron	mg/kg	0,4	-	5,0
Mercury	mg/kg	< 0,1	-	0,1
Lead	mg/kg	< 0,1	-	2,0
Heavy metals	mg/kg	< 5	-	5
Insolubles	mg/kg	1	-	200
>180µm	%	5,5	-	15,0
>45µm	%	59.9	30,0	-
Density	kg/m3	978	800	-

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Warning: This product datasheet applies to Sodium Bicarbonate Food grade. Because SEQENS La Madeleine (Novacarb) is selling various grades, some restrictions for some grades might be listed for each chapter.

1. Product information

We certify that sodium bicarbonate Food grade is produced from sodium carbonate. Sodium carbonate is made from French mineral raw materials (salt and limestone) o

Trade name	**Sodium Bicarbonate**
INCI name	Sodium Bicarbonate
Chemical name	Sodium Hydrogen Carbonate
CAS	144-55-8
EINECS	205-633-8
REACH	01-2119457606-32-0011
CLP	Not classified
Tariff code	28363000

2. Chemical Regulations

2.1. REACH

Reference: *Regulation (EC) N° 1907/2006 of the European Parliament and of the Council of 18 Dec. 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) as amended.*

Registration number for sodium bicarbonates is: 01-2119457606-32-0011
Registration done in 2010.

2.2. CMR

Reference: *Regulation (EC) N° 1272/2008 of the European Parliament and of the Council of 16 Dec. 2008 on classification, labelling and packaging of the substance and mixture as amended and modified by latest adaptation To Technical Progress (ATP) publication.*

Sodium bicarbonate is free from Carcinogenic, Mutagenic and Repro-toxic (CMR) substances.

2.3. Substances of very Hight Concern (SVHC) for REACH

Reference: *Candidate List of Substances of Very High Concern for Authorization, last updated.*

NOVACARB hereby confirms that none of the products listed above meets the criteria of the article 57 of REACH regulation (EC) n° 1907/2006 as amended relating to 'Substances of Very High Concern' and last updated in force.

In addition, the European Chemicals AGENCY (ECHA) updates on a regular basis, the candidate list of substances of very high concern for authorization, in the framework of REACH.

2.4. PROP 65

Reference: *State of California environmental protection agency office of environmental health hazard assessment safe drinking water and toxic enforcement act of 1986 - chemicals known to the state to cause cancer or reproductive toxicity – Latest update.*

Sodium bicarbonate is not present in the non-authorized list.

2.5. Animal testing

Reference: *Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009.* Madar Corporation, nor our suppliers do not test on animals for any intended use of the products. The REACH registration was made from bibliographic data.

2.6. Global inventories

Sodium bicarbonate (144-55-8) is authorized in the following inventories:

- AICS (Australian Inventory of Chemical Substances)
- Canadian DSL (Domestic Substances List)
- IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Japanese ENCS (Existing Chemicals List)
- NZIoC (New Zealand Inventory of Chemicals)
- PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- United States TSCA (Toxic Substances Control Act) inventory

2.7. Food Chemical Codex

Sodium bicarbonate is compliant to the food standards defined by the Food Chemical Codex.

3. Substances properties

3.1. BSE / TSE

Reference: *Note for guidance on minimizing the risk of transmitting animal spongiform encephalopathy agents via human and veterinary medicinal products (EMA/410/01 rev.3) (2011/C 73/01).*

Sodium bicarbonate is free from BSE risk (Bovine Spongiform Encephalopathy) and TSE risk (Transmissible Spongiform Encephalopathy). Sodium Bicarbonate does not contain animal substances.

Raw materials are of mineral origin. No product of animal origin is or has been used during the manufacturing process, even as an auxiliary material not present in the final product.

3.2. GMO

Reference: *European Parliament and Council Regulation (EC) No 1830/2003 of 22 September 2003 concerning the traceability and labeling of genetically modified organisms and the traceability of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC.*

Sodium bicarbonate is free from Genetically Modified Organism (GMO) – No ingredient of plant origin in the product.

3.3. Residual Solvent

No solvents are used at any stage of the process.

3.4. Metal catalysts

None of the metal catalysts is used in the manufacturing process of sodium bicarbonate.

3.5. Latex

Sodium bicarbonate is free from latex.

3.6. Ionization or irradiation

Sodium bicarbonate is not subjected to any treatment by ionization or irradiation according to EC 1999/3.

3.7. Phthalate

Sodium bicarbonate is free from phthalate.

3.8. Melamine

Sodium bicarbonate is free from melamine.

3.9. Food Allergens

Reference: *Regulation (EU) No 1169/2011 of the European Parliament and of the Council of 25 October 2011 as amended.*

To the best of our knowledge, Sodium bicarbonate does not contain any of the following allergens:

- Cereals containing gluten, namely: wheat (such as spelt and khorasan wheat), rye, barley, oats or their hybridised strains, and and products thereof except
- Crustaceans and products thereof,
- Eggs and products thereof,
- Fish and products thereof,
- Peanuts and products thereof,
- Soybeans and products thereof,
- Milk and products thereof (including lactose),
- Nuts (almond, hazelnut, walnut, cashew, pecan,) and products thereof,
- Celery and products thereof,
- Mustard and product thereof,
- Sesame seeds and product thereof,
- Sulphur dioxide and sulphites,
- Lupin and products thereof,
- Mollusks and products thereof.

3.10. Cosmetic Allergens

Reference: *Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 as amended.*

Sodium bicarbonate does not contain any allergen listed below.

INCI Name	CAS N°	INCI Name	CAS N°
Amyl cinnamal	*122-40-7*	*Hydroxyisohexyl-3-Cyclohexene carboxaldehyde*	31906-04-4
Benzyl Alcohol	*100-51-6*	*Anis Alcohol*	105-13-5
Cinnamyl Alcohol	104-54-1	*Benzyl Cinnamate*	103-41-3
Citral	5392-40-5	*Farnesol*	4602-84-0
Eugenol	97-53-0	*Butylphenyl Methylpropional*	80-54-6
Hydroxycitronellal	107-75-5	*Linalool*	78-70-6
Isoeugenol	97-54-1	*Benzyl Benzoate*	120-51-4
Amylcinnamyl Alcohol	101-85-9	*Citronellol*	106-22-9
Benzyl Salicylate	118-58-1	*Hexyl Cinnamal*	101-86-0
Cinnamal	104-55-2	*Limonene*	138-86-3
Coumarin	91-64-5	*Methyl-2-octynoate*	111-12-6
Geraniol	106-24-1	*Alpha-Isomethyl Ionone*	127-51-5
Evernia Furfuracea (Treemoss) Extract	90028-67-4	*Evernia Prunastri (Oakmoss) Extract*	90028-68-5

3.11. Dioxin

Sodium bicarbonate is free from dioxin.

3.12. Aflatoxin

Reference: *Commission Regulation (EC) N ° 1881/2006 of 19 December 2006 setting maximum levels for certain contaminants in foodstuffs as amended.*

Sodium bicarbonate is free from aflatoxins.

3.13. Mycotoxin

Sodium bicarbonate is free from mycotoxin.

3.14. Silicon

Sodium bicarbonate is free from silicon.

3.15. Paraben

Reference: *Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on Cosmetic Products, Annex V as amended.*

Sodium bicarbonate is free from paraben.

3.16. Nanomaterials

References:
• *Regulation (EU) N° 1169/2011 of 25 October 2011 on the provision of food information to consumers as amended*
• *Regulation (EU) N ° 1223/2009 of 30 November 2009 on cosmetics products as amended*
• *(EU) Commission Recommendation 2011/696/UE on the definition of nanomaterials of 18 October 2011*

We herewith confirm that our sodium bicarbonate does not contain nanomaterials.

3.17. Pesticides

According to EC 396/2005, no pesticides are used in the plant.

3.18. Trans-fat and its derivatives

Sodium bicarbonate is free from trans-fat and its derivatives

3.19. Isomer

Sodium bicarbonate is free from isomer.

3.20. Bisphenol A

Sodium bicarbonate is free from Bisphenol A.

3.21. Enzyme

Sodium bicarbonate is free from enzyme, no enzyme used in the manufacturing process.

3.22. Nitrite and Nitrate

Sodium bicarbonate is free from nitrite and nitrate.

3.23. Chlorate

Sodium bicarbonate is free from chlorate.

3.24. Sulfite

Sodium bicarbonate is free from sulfite.

3.25. Drug substances

Sodium bicarbonate is free from drug substances.

3.26. Anabolic

Sodium bicarbonate is free from anabolic.

3.27. Organic material

Sodium bicarbonate is free from organic material. No ingredient from plant, animal, carcass, fish, agricultural products, soil or microorganism based.

3.28. Conservatives

Sodium bicarbonate is free from conservatives.

3.29. Residual solvent

No use of solvent in our manufacturing process.

3.30. Gluten

Sodium bicarbonate is free from gluten.

3.31. Polycyclic aromatic hydrocarbons (PAH's)

Sodium bicarbonate is free from polycyclic aromatic hydrocarbons (PAH's).

3.32. Heavy Metals

Sodium bicarbonate is analyzed once a week for heavy metals in our internal laboratory (Al, As, Cd, Cr, Cu, Hg, Mn, Ni, Pb, Sb, Ti, Zn, Co) and once a year in an external accredited laboratory (in compliance with EU 231/2012).

3.33. Nutritional data

Sodium bicarbonate has no nutritional value or contribution:

Nutritional Data per 100 g of product

Energy:

Energy:	0 kJ/kcal
Protein:	0 g
Carbohydrates:	0 g
of which, sugars:	0 g
Fat:	0 g
of which, saturates:	0 g

Mineral content:

Magnesium:	0 mg
Calcium:	0 mg
Potassium:	0 mg
Sodium:	27,1 g

3.34. Total viable aerobics

Sodium bicarbonate is analyzed twice a year in an external accredited laboratory for total viable aerobics.

3.35. MOAH / MOSH

Sodium bicarbonate does not contain: MOAH (mineral oil aromatic hydrocarbons) and MOSH (mineral oil saturated hydrocarbons).

3.36. Lactose

Sodium bicarbonate is free from lactose.

3.37. Antibiotic

Sodium bicarbonate is free from antibiotic.

3.38. Aromatic

Sodium bicarbonate is free of aromatic or modified aromatic surface-active agent.

3.39. Conflict Minerals

Sodium bicarbonate is free from “conflict minerals”.

3.40. Pyrogen

Sodium bicarbonate is pyrogen free.

3.41. Genotoxicity impurities

Sodium bicarbonate is free from genotoxicity impurities.

3.42. Endocrine disruptors

Sodium bicarbonate is free from endocrine disruptors.

3.43. Hormone

Sodium bicarbonate is free from hormone.

4. Others information

4.1. Vegan / Vegetarian

We hereby certify that sodium bicarbonate is suitable for vegan and vegetarian diet.

4.2. Packaging material

We hereby confirm that packaging material used to packaged sodium bicarbonate is food grade compliant.

4.3. European Cosmetic regulation

To our knowledge, we hereby certify that our sodium bicarbonate is compliant with European cosmetic regulation and has no worldwide restriction use.

According to cosmetic regulation 1223/2009, composition of our sodium bicarbonate produced by Novacarb in Laneuveville devant Nancy is:

- INCI sodium bicarbonate 100%

4.4. WADA list

Sodium bicarbonate does not contain substances listed in the WADA list.

4.5.Natural origin index

Novacarb certify that according to the NF ISO 16128 standard, our sodium bicarbonate has a natural origin index of 1.

5. History of changes

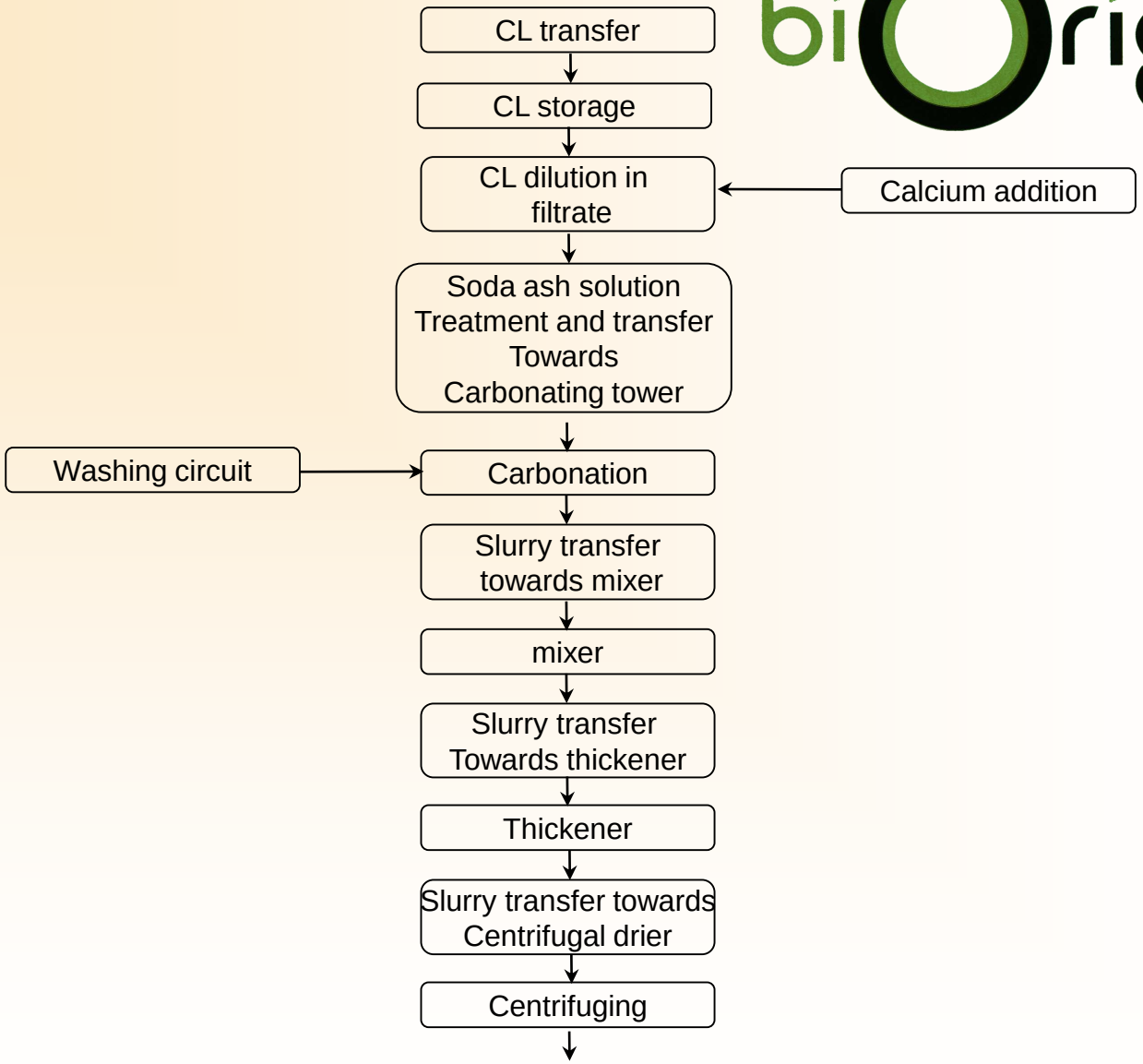
Date_Version	Chapter	Change
Dec2020_V1	Initial version	Initial version

This document is valid until the new version.

DISCLAIMER: The content of this product regulatory datasheet is, to the best of our knowledge, complete and accurate, subject to the current available scientific, technical and regulatory information. However, it does not relieve our customers from the obligation to check the accuracy and completeness of such information and / or the existence of any published information, regulation and/or scientific literature which could complement, detail or question the information provided by Madar Corporation. Our customers should see full text of regulations for maximum authorized concentration, limitations, requirements, conditions of use or warnings. We will update this document from time to time, but our customers are responsible to contact us on a regular basis to check whether this regulatory datasheet has been updated.

Sodium Bicarbonate manufacturing process

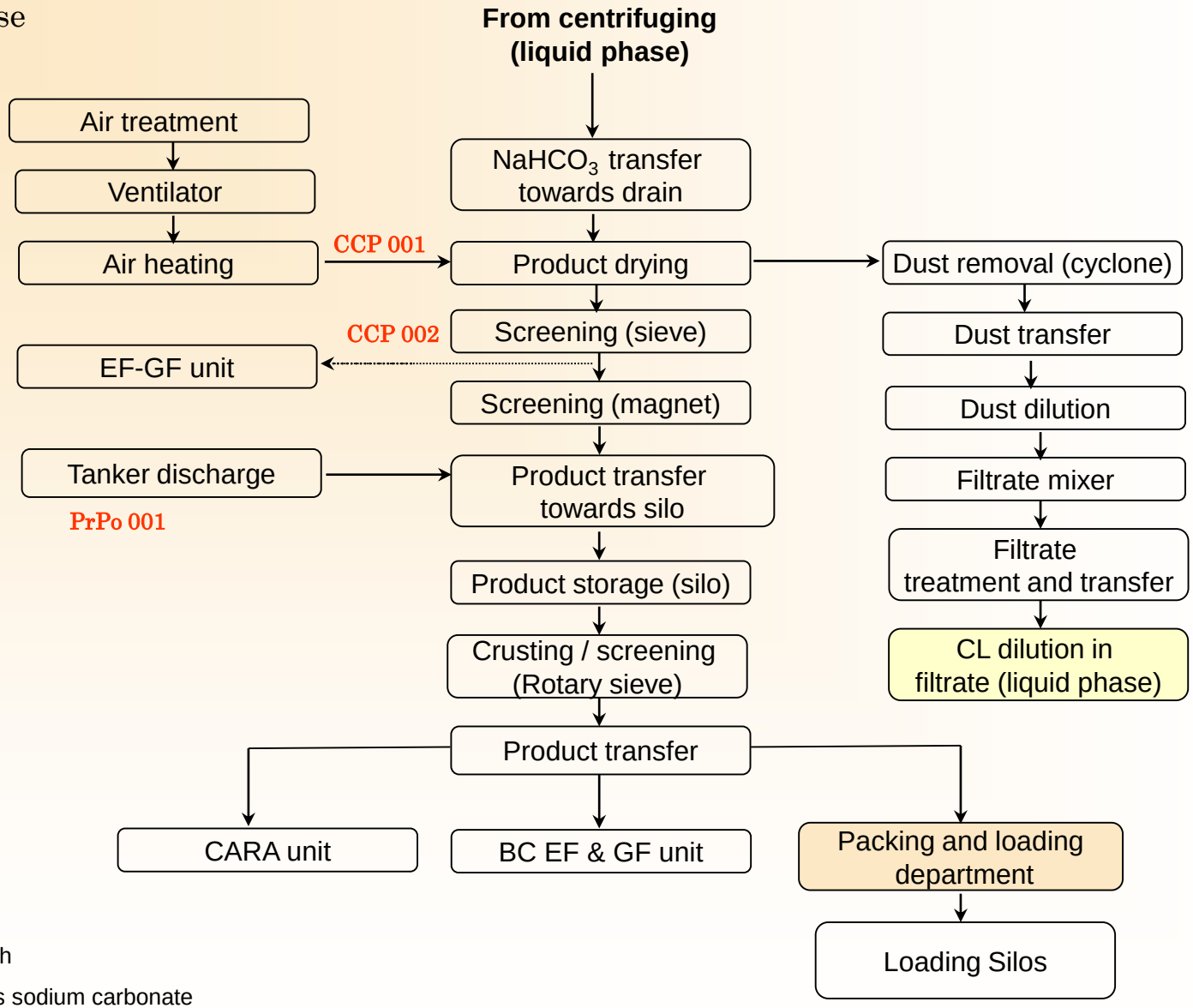
Liquid phase



CL : light soda ash

Sodium Bicarbonate manufacturing process

Solid phase



CL : light soda ash

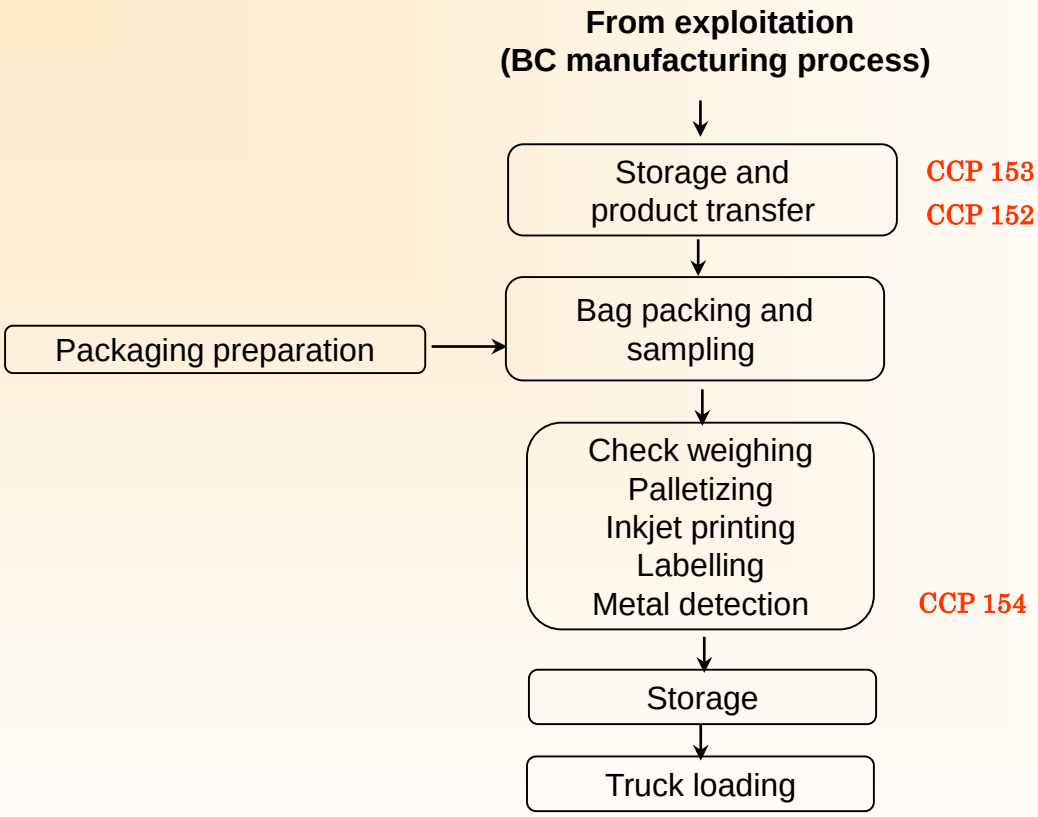
CARA : anhydrous sodium carbonate

EF : sodium bicarbonate food grade, extra fine powder

GF: sodium bicarbonate food grade, fine granular

BC bag packing

food grade or feed grade



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Tel: 01425 655555 Email: technical@madarcorporation.co.uk

BC : sodium bicarbonate

IDENTIFIED CCP Manufacturing step

N°	DESCRIPTION	HAZARD	CONTROL MEASURE
SODIUM BICARBONATE PRODUCTION PROCESS			
001	Drier's temperature	microbial development in the product	Temperature is followed-up in the control room: alert threshold = 66 °C
002	Product screening (sieve 720 µm)		

IDENTIFIED PrPo

N°	DESCRIPTION	HAZARD	CONTROL MEASURE
SODIUM BICARBONATE PRODUCTION PROCESS			
001	Delivery of external product (unusual)	To send “out of specification product” in our silos of end product.	• Document control before each unloading • Unloading only into silo n° 2 which is downgraded to technical grade. • Complete emptying and rinsing of the manufacturing silo before new production.

IDENTIFIED CCP
BC Bag packing

N°	DESCRIPTION	HAZARD	CONTROL MEASURE
PACKING AND LOADING DEPARTMENT			
153	Screening (sifter) 4 mm*	- Foreign body in the product	Visual inspection once a week + preventive maintenance: sifter inspection every 8 weeks.
152	Metal separator (9000 Gauss)	- Magnetic foreign body in the product	Control and cleaning before each batch.
154	Metal detection	- Magnetic foreign body in the product	Detector test before each batch (7 mm stainless steel ball & 7mm non-ferrous ball)

Product form	:	Substance
Trade name	:	Sodium bicarbonate
EC-No.	:	205-633-8
CAS-No.	:	144-55-8
REACH registration No	:	01-2119457606-32-0011
	:	

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

1.2.1. Relevant identified uses

Use of the substance/mixture	:	Glassmaking, metallurgy, stationery, tannery, chemical industries, pH corrector.., Fumes treatment Detergency Human or animal nutrition Hemodialysis, excipients in the pharmaceutical field, cosmetics Depending on grade

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Madar Corporation Limited
19-20 Sandleheath Industrial Estate, Fordingbridge, SP6 1PA
+44 (0) 1425 655 555
technical@madarcorporation.co.uk

1.4. Emergency telephone number

Country	Organization/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital, Guy's & St Thomas' Hospital Trust	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	-

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Not subjected.

2.3. Other hazards

Other hazards not contributing to the classification	:	None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium hydrogencarbonate	(CAS-No.) 144-55-8 (EC-No.) 205-633-8 (REACH-no) 01-2119457606-32-0011	100	Not classified

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. If irritation persists, consult a doctor.

First-aid measures after skin contact : Wash with soapy water.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. If irritation persists, consult an eye specialist.

First-aid measures after ingestion : Get medical advice/attention. If possible show this sheet, if not available show packaging or label.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing agents can be used.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not combustible.

5.3. Advice for firefighters

Firefighting instructions : Contain the extinguishing fluids by bunding.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes. Do not breathe dust.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Contain the spilled material by bunding. Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

For containment : Sweep up or vacuum up the product.

Methods for cleaning up : Wash contaminated area with large amounts of water.

Other information : Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid creating or spreading dust. Extraction to remove dust at its source.

Hygiene measures : Do not drink, eat or smoke in the workplace. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage conditions : Store in original container. Store in a dry area.

Incompatible products : Acids.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Chemically resistant protective gloves

Eye protection:

Safety glasses (EN 166)

Skin and body protection:

Protective clothing

Respiratory protection:

If the ventilation is suitable, it is not essential to wear respiratory equipment. In case of insufficient ventilation, wear suitable respiratory equipment (EN 149). Dust mask FFP1

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: White.
Odour	: odourless.
Odour threshold	: No data available
pH	: 8
pH solution	: 50 g/l
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 270 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: >= 50 °C
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 2,21 - 2,23 (20 °C)
Solubility	: soluble in water. Water: 93,4 g/l (20 °C) (pH = 8.4) Organic solvent:Insoluble
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: No data available

9.2. Other information

Other properties : Tends to cake (solidify) on heating or under humid conditions.

SECTION 10: Stability and reactivity

10.1. Reactivity

To our knowledge, the product does not present any particular risk, under normal conditions of use.

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Tel: 01425 655555 Email: technical@madarcorporation.co.uk

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

None to our knowledge.

10.4. Conditions to avoid

Moisture. High temperature.

10.5. Incompatible materials

Fluorine. Acids.

10.6. Hazardous decomposition products

Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Sodium bicarbonate (144-55-8)	
LD50 oral rat	> 4000 mg/kg (EPA-FIFRA 40 CFR 160)
LC50 inhalation rat	> 4,74 mg/l/4h (EPA OTS 798.1150)

Skin corrosion/irritation : Not classified (OECD 404)
pH: 8

Serious eye damage/irritation : Not classified (OECD 405)
pH: 8

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : NOAEL (oral,rat) : 340 mg/kg/d

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Sodium bicarbonate (144-55-8)	
NOAEL (oral, rat, 90 days)	596 mg/kg bodyweight/day Developmental toxicity

Aspiration hazard : Not classified (Technical impossibility to obtain the data)

SECTION 12: Ecological information

12.1. Toxicity

Sodium bicarbonate (144-55-8)	
LC50 fish	7100 mg/l/96h (Lepomis macrochirus)
EC50 Daphnia	4100 mg/l/48h (Daphnia magna)
NOEC (chronic)	> 576 mg/l/ 21 d (Daphnia magna)

12.2. Persistence and degradability

Sodium bicarbonate (144-55-8)	
Persistence and degradability	Not applicable.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with relevant local regulations. Incinerate at a licensed installation.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.5. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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 bicarbonate is not on the REACH Candidate List

Sodium bicarbonate is not on the REACH Annex XIV List

15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Korean ECL (Existing Chemicals List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:
This sheet was updated (refer to the date at the top of this page). This sheet has been revised completely (changes were not marked).

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Tel: 01425 655555 Email: technical@madarcorporation.co.uk

Data sources : CSR (Chemical safety report).

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

SPECIFICATIONS

L(+) TARTARIC ACID

Comercial name: L-(+)-Tartaric Acid

IUPAC name: (2R,3R)-2,3-Dihydroxybutanedioic acid

CAS code: 87-69-4

EINECS code: 201-766-0

Formula: $C_4H_6O_6$

Molecular weight: 150.09

TEST DESCRIPTION	SPECIFICATION	REFERENCE	RESULTS
Description	White or almost white christaline powder	Ph.Eur. VII	Complies
Identification	Meets identification tests	Ph.Eur. VII	Complies
Assay	99,7 - 100,5	Ph.Eur. VII	Complies
Appearance of solution	Clear and less coloured than reference solution	Ph.Eur. VII	Complies
Specific optical rotation	12,0 - 12,8	Ph.Eur. VII	Complies
Loss on drying	<0,2 %	Ph.Eur. VII	Complies
Sulphates	<150 ppm	Ph.Eur. VII	Complies
Sulphated ash	<0,05%	FCC VIII	Complies
Oxalate	<100 ppm	Reg.(UE) 231/2012	Complies
Mercury	<1 ppm	Reg.(UE) 231/2012	Complies
Lead	<2 ppm	Reg.(UE) 231/2012	Complies
Heavy metal (as Pb)	<10 ppm	Ph.Eur. VII	Complies
Chlorides	<100 ppm	Ph.Eur. VII	Complies
Calcium	<200 ppm	Ph.Eur. VII	Complies
Arsenic	<1 ppm	J.P. XVI	Complies
Iron	<10 ppm	Our own limit	Complies