

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
 Name : Sodium Carbonate
 EC-No. : 207-838-8
 CAS-No. : 497-19-8
 REACH registration No : 01-2119485498-19-0081
 Formula : Na₂CO₃

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 : Pharmaceutical industry

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

JOST CHEMICAL CO.
 8150 Lackland
 P.O. Box MO 63114
 Saint Louis - USA
 T +1 314-428-4300 - F +1 314-428-4366
sds@jostchemical.com

Distributor

JOST CHEMICAL EUROPE SPRL
 Rue du Bois Portal 30/1-3
 5300 Andenne - BELGIQUE
 T +32 85 552 655 - F +32 85 552 654
info@josteurope.com

1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident
 Call CHEMTREC Day or Night
 United States and Canada: 1-800-424-9300 / +1 703-527-3887
 Global: +1 703-741-5970

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

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

Causes serious eye irritation. Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with. Not classified as flammable by EC criteria.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H319 - Causes serious eye irritation.

Precautionary statements (CLP) :

P280 - Wear eye 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.

Sodium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium Carbonate	(CAS-No.) 497-19-8 (EC-No.) 207-838-8 (REACH-no) 01-2119485498-19-0081	Eye Irrit. 2, H319

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 after inhalation	: Move the affected person away from the contaminated area and into the fresh air. If symptoms persist call a doctor.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Wash with soapy water. If symptoms persist call a doctor.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult an eye specialist.
First-aid measures after ingestion	: Rinse mouth out with water. If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Never attempt to induce vomiting. Get medical advice and attention if you feel unwell.

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

Symptoms/effects after eye contact	: Irritation. Blurred vision.
Symptoms/effects after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Water fog. Carbon dioxide (CO₂).

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : On combustion or on thermal decomposition (pyrolysis) releases : flammable gases which may generate fire or explosion hazards, Carbon oxides (CO, CO₂).

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. Complete protective clothing. Self-contained breathing apparatus.

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. Avoid creating or spreading dust. 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

Do not allow product to spread into the environment. 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. Avoid creating or spreading dust. Collect up the product and place it in a spare container suitably labelled.
Methods for cleaning up	: Wash contaminated area with large amounts of water.
Other information	: Dispose of contaminated materials in accordance with current regulations.

Sodium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 : Ensure good ventilation of the work station. Dust extraction (suction). Avoid contact with skin and eyes. Avoid the formation or spread of dust in the atmosphere.

Hygiene measures : Do not eat, drink or smoke when using this 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 : Keep container tightly closed and dry. Store in a cool, well-ventilated place. Protect from light.

Incompatible materials : Acids. Alkali metals. Alkaline earth metals. Strong oxidizing agents.

Packaging materials : Polyethylene.

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)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	10 mg/m ³

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Extraction to remove dust at its source. Eye fountain.

Hand protection:

Neoprene rubber gloves. Protective gloves made of rubber. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. Breakthrough time : refer to the recommendations of the supplier

Eye protection:

Safety glasses

Skin and body protection:

Dustproof clothing

Respiratory protection:

In case of dust formation use respirator with filter: P2 / FFP2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder.

Molecular mass : 105.99 g/mol

Colour : White.

Odour : None.

Odour threshold : No data available

pH : Not applicable

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 851 °C

Freezing point : Not applicable

Boiling point : Not applicable

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Non flammable (Test method EU A.10) (Published data)

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Sodium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Relative density	: 2.52 - 2.53 (20°C) (OECD 109 method) (Published data)
Solubility	: Water: 212.5 g/l (20 °C)
Log Pow	: Not applicable (inorganic substance)
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing material.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts exothermically with (some) acids.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

Acids. Alkali metals. Alkaline earth metals. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Sodium Carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg (Aqueous solution - 20%)
LD50 dermal rabbit	> 2000 mg/kg (EPA 16 CFR 1500.40)
LC50 inhalation rat	2.3 mg/l/2h (Published data)

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	: Not irritating to rabbits on cutaneous application (OECD 404 method)
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable
Additional information	: Irritating to rabbits on ocular application (EPA 16 CFR 1500.42)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: No sensitizing effect known
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Bacterial mutation test : Negative (Published data)
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) : ≥ 245 mg/kg/j NOAEL (oral, rabbit) : ≥ 179 mg/kg/d NOAEL (oral, mouse) : ≥ 340 mg/kg/d (Published data)
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)
Aspiration hazard	: Not classified (Technical impossibility to obtain the data)

Sodium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 12: Ecological information

12.1. Toxicity

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

Sodium Carbonate (497-19-8)	
LC50 fish	300 mg/l/96h (Lepomis macrochirus) (Published data)
EC50 Daphnia	265 mg/l/48 h (Daphnia magna) (Published data)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Sodium Carbonate (497-19-8)	
Log Pow	Not applicable (inorganic substance)
Bioaccumulative potential	Not bioaccumulable.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Sodium Carbonate (497-19-8)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

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.
Product/Packaging disposal recommendations : Destroy at an authorised site.
Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number		
Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

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

Not applicable

Sodium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A 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). SDS changed sections : 2-3.

Data sources : HSDB (Hazardous Substances Data Bank). ECHA - European Chemical Agency.

Other information : This product must not be used for other applications that mentioned in §1. Safety data sheet established by : LISAM SERVICES - TELEGIS
17 rue de la Couture F-60400 Passel
www.lisam-telegis.fr.

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.

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

Sodium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ANNEX TO THE SAFETY DATA SHEET

Table of contents of the Annex

Identified Uses	Es N°	Short title	Page
Use as industrial processing aid	1		8

Sodium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

1. ES1: Use as industrial processing aid

1.1. Title section

Use as industrial processing aid

ES Ref.: ES1
ES Type: Worker

Environment		
	Contributing scenario controlling environmental exposure	ERC4
Worker		
	Worker Contributing Scenario	PROC1
	Worker Contributing Scenario	PROC3
	Worker Contributing Scenario	PROC8a
	Worker Contributing Scenario	PROC15

Processes, tasks, activities covered Industrial use

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC4)

ERC4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
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1.2.2. Control of worker exposure: Worker Contributing Scenario (PROC1)

PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions
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Product (article) characteristics

Physical form of product	Powder
Concentration of substance in product	> 25 %

Amount used (or contained in articles), frequency and duration of use/exposure

Use frequency	> 4 h/day
Every day	

Technical and organisational conditions and measures

Provide local exhaust or general room ventilation. Extraction to remove dust at its source	
Handle in accordance with good industrial hygiene and safety practice	

Conditions and measures related to personal protection, hygiene and health evaluation

In the event of exposure to high concentrations of dust : Wear suitable respiratory equipment	
Wear safety glasses with side shields.	
Wear suitable gloves. Protective clothing	

Other conditions affecting workers exposure

Solid, medium dustiness	
Indoor or outdoor use	

1.2.3. Control of worker exposure: Worker Contributing Scenario (PROC3)

PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
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Product (article) characteristics

Physical form of product	Powder
Concentration of substance in product	> 25 %

Amount used (or contained in articles), frequency and duration of use/exposure

Use frequency	> 4 h/day
Every day	

Technical and organisational conditions and measures

Provide local exhaust or general room ventilation	
Handle in accordance with good industrial hygiene and safety practice	

Conditions and measures related to personal protection, hygiene and health evaluation

In the event of exposure to high concentrations of dust : Wear suitable respiratory equipment	
Wear safety glasses with side shields.	
Wear suitable gloves. Protective clothing	

Sodium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Other conditions affecting workers exposure	
Solid, medium dustiness	
Indoor or outdoor use	

1.2.4. Control of worker exposure: Worker Contributing Scenario (PROC8a)

PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
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Product (article) characteristics

Physical form of product	Powder
Concentration of substance in product	> 25 %

Amount used (or contained in articles), frequency and duration of use/exposure

Use frequency	> 4 h/day
Every day	

Technical and organisational conditions and measures

Provide local exhaust or general room ventilation	
Handle in accordance with good industrial hygiene and safety practice	

Conditions and measures related to personal protection, hygiene and health evaluation

In the event of exposure to high concentrations of dust : Wear suitable respiratory equipment	
Wear safety glasses with side shields.	
Wear suitable gloves. Protective clothing	

Other conditions affecting workers exposure

Solid, medium dustiness	
Indoor or outdoor use	

1.2.5. Control of worker exposure: Worker Contributing Scenario (PROC15)

PROC15	Use as laboratory reagent
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Product (article) characteristics

Physical form of product	Powder
Concentration of substance in product	> 25 %

Amount used (or contained in articles), frequency and duration of use/exposure

Use frequency	> 4 h/day
Every day	

Technical and organisational conditions and measures

Provide local exhaust or general room ventilation. Extraction to remove dust at its source	
Handle in accordance with good industrial hygiene and safety practice	

Conditions and measures related to personal protection, hygiene and health evaluation

In the event of exposure to high concentrations of dust : Wear suitable respiratory equipment	
Wear safety glasses with side shields.	
Wear suitable gloves. Protective clothing	

Other conditions affecting workers exposure

Solid, medium dustiness	
Indoor or outdoor use	

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC4)

Release route	Release rate	Release estimation method
Release to waste water from process, Insignificant		
Release to air from process, Low		
Release to soil from process, Insignificant, Except agricultural use		

1.3.2. Worker exposure Worker Contributing Scenario (PROC1)

Route of exposure and type of effects	Exposure estimate	RCR	Method
Long term - Local - Inhalation	0.007 mg/m ³	0.001	ECETOC TRA v3.1 Worker

Sodium Carbonate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

1.3.3. Worker exposure Worker Contributing Scenario (PROC3)

Route of exposure and type of effects	Exposure estimate	RCR	Method
Long term - Local - Inhalation	0.1 mg/m ³	0.01	ECETOC TRA v3.1 Worker

1.3.4. Worker exposure Worker Contributing Scenario (PROC8a)

Route of exposure and type of effects	Exposure estimate	RCR	Method
Long term - Local - Inhalation	3.5 mg/m ³	0.35	ECETOC TRA v3.1 Worker

1.3.5. Worker exposure Worker Contributing Scenario (PROC15)

Route of exposure and type of effects	Exposure estimate	RCR	Method
Long term - Local - Inhalation	0.35 mg/m ³	0.035	ECETOC TRA v3.1 Worker

1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

1.4.1. Environment

Guidance - Environment	No additional risk management measures, besides those that are mentioned above, are needed to guarantee safe use for environment.
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1.4.2. Health

Guidance - Health	No additional risk management measures, besides those that are mentioned above, are needed to guarantee safe use for workers.
Health Scaling Method	ECETOC TRA v3.1 Worker