

CTM Potters Supplies

Product : SODIUM CARBONATE
 REACH Registration Number : 01-2119485498-19-0018
 Issue Number :SML 069
 Issue Date : 22-02-2017
 Revision Date :
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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name : SODIUM CARBONATE
 Chemical Name : Sodium carbonate
 Alternative Name : Disodium carbonate, soda ash
 Chemical Formula : Na₂CO₃
 CAS Number : 497-19-8
 EC Number : 207-838-8
 Index Number : 011-005-00-2

1.2 Relevant identified uses

: glass production; intermediate in chemicals production; water treatment chemicals; washing and cleaning products; other industrial, professional and consumer uses. Exposure scenarios covering uses can be found in the Annex

1.2.1 Uses advised against

: none identified

1.3 Company Details

Company Name	: Simba Materials Limited t/a CTM Potters Supplies	
Address	Unit 7-8	Unit 10A
	Broomhouse Lane Industrial Estate	Millpark Industrial Estate
	Broomhouse Lane	White Cross Road
	Edlington, Doncaster	Woodbury Salterton
	DN12 1EQ	nr Exeter
		EX5 1EL
Telephone	: T +44 (0)1709 770801	: T +44 (0)1395 233077
	: F +44 (0)1709 770803	: F +44 (0)1395 233905
	: www.ctmpotterssupplies.co.uk :	
	doncaster@ctmpotterssupplies.co.uk	admin@ctmpotterssupplies.co.uk

1.4 Emergency Telephone Number

Emergency Number (office hours) : +44 (0)1709 770801

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

2.1.1 Classification according to Regulation (EC) 1272/2008 [CLP/GHS]

Classification: Eye Irritant 2

2.1.2 Classification according to Directive 67/548/EEC

Classification: Irritating to eyes

2.2 Labelling

2.2.1 Labelling according to Regulation (EC) 1272/2008 [CLP/GHS]

Hazard Pictograms:



Signal Word : Warning

Hazard Statements
 H319 : Causes serious eye irritation

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*Precautionary
 Statements:*

P264 : Wash hands and face thoroughly after handling
 P280 : Wear protective gloves/protective clothing/eye protection/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

2.2.2 Labelling according to Directive 67/548/EEC



Symbol : Xi - irritant

Risk Phrases:

R36 : Irritating to eyes

Safety Phrases:

S2 : Keep out of the reach of children
 S22 : Do not breathe dust
 S24 : Avoid contact with skin

2.3 Other hazards

- The substance does not meet the criteria for PBT or vPvB according to Annex XIII of the REACH Regulation EC 1907/2006 (an inorganic substance)
- No other hazards identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Main constituent	Formula	Purity %w/w (typical)	CAS Number	EC Number
Sodium carbonate	Na ₂ CO ₃	>99.0	497-19-8	207-838-8

IMPURITIES

No impurities relevant for classification and labelling

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

- No known delayed effects

Following inhalation

- Remove to fresh air, keep warm and at rest
- If symptoms persist, seek medical attention

Following skin contact

- Remove contaminated clothing and wash before re-use
- Wash off with soap and water
- If symptoms persist, seek medical attention

Following eye contact

- Remove contact lenses if present
- Irrigate eye thoroughly with eye wash solution or clean water for at least 15 minutes

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- Eyelids should be held away from the eyeball to ensure thorough rinsing
- If eye irritation persists seek medical attention

After ingestion

- DO NOT induce vomiting
- Wash out mouth with water and give plenty of water to drink (at least 300 ml.)
- Obtain medical advice if necessary.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

5.1.1 Suitable extinguishing media

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

5.1.2 Unsuitable extinguishing media

- None

5.2 Special hazards arising from the substance or mixture

- None

5.3 Advice for firefighters

- No special precautions required

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

6.1.1 For non-emergency personnel

- Keep dust levels to a minimum
- Wear suitable protective equipment (see Section 8)

6.2 Environmental Precautions

- Prevent uncontrolled discharges into the environment (rivers, water courses, sewers etc.)
- Avoid any mixture with an acid into sewer/drains (CO2 gas formation)

6.3 Methods for containment and clean up

- In all cases avoid dust formation
- Use vacuum suction, or shovel into bags
- Collect as much as possible in a suitable clean container, preferably for re-use, otherwise for disposal (See Section 13)

6.4 Reference to other sections

- For more information on exposure controls/personal protection or disposal considerations, please see section 8 and 13

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

7.1.1 Protective measures

- Keep dust levels to a minimum
- Ensure adequate ventilation
- Wear protective equipment (see Section 8.2)
- Keep away incompatible materials

7.1.2 Advice on general occupational hygiene

- Good personal and housekeeping practices to be used
- No drinking, eating or smoking at the workplace

7.2 Conditions for safe storage, including any incompatibilities

- Store in a dry place

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- Store in original, closed and correctly labelled container
- Store away from incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Occupational Exposure Standards

- Not listed by H&SE (Guidance Note EH40) or ACGIH
- Recommended Limits: WEL 10mg/m³ (total dust) (8hr TWA)
4mg/m³ (respirable dust) (8hr TWA)

8.1.2 DNEL's/PNEC

Exposure route of relevance	DNELs (local effects)			
	Workers		General population	
	Long term	Acute	Long term	Acute
Inhalation	10 mg/m ³			

PNEC :

The lowest L(E)C₅₀ value is > 100 mg/l (48-h EC₅₀ is 200 mg/l in daphnids (*Ceriodaphnia* sp)). Therefore sodium carbonate need not be classified according to Directive 67/548/EEC and EU Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation (EC) No. 1272/2008

Environmental Classification is not warranted

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

- provide appropriate exhaust ventilation at places where dust is formed
- apply technical measures to comply with the occupational exposure limits

8.2.2 Personal protection

8.2.2.1 Eye/face protection

- wear eye/face protection rated to protect eyes against dust (EN166) eg.safety eye shields with dust protection, goggles or face visor

8.2.2.2 Hand protection

- wear suitable chemical resistant protective gloves, that comply with the specification of EC Directive 89/686/EEC and the related standard EN374. Suitable materials, Neoprene or natural rubber

8.2.2.3 Skin/body protection

- dust impervious protective suit
- rubber or plastic safety boots

8.2.2.4 Respiratory protection

- in the case of high dust levels wear suitable respiratory protective equipment eg.dust mask or respirator, that conform to national/international standard, EN143. Recommended filter tpe P2

8.3 Environmental Exposure Controls

- contain any spillage
- avoid discharges to the environment
- dispose of any rinse water in accordance with local and national regulations

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

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Appearance	: white powder
Odour	: odourless
Odour threshold	: no information available
pH	: >11 (saturated solution, study result, OECD Guideline105)
Melting/freezing point	: 851°C (published data)
Boiling point	: not applicable (melting point >300°C)
Flash point	: not applicable (inorganic substance)
Evaporation rate	: not applicable (melting point >300°C)
Flammability	: non-flammable (study result, EU Method A.10))
Upper flammability limit	: non-flammable
Lower flammability limit	: non-flammable
Vapour pressure	: not applicable (inorganic substance, vapour pressure negligible)
Vapour Density	: not applicable
Relative density	: 2.52 @ 20°C (study result, EU Method A.3)
Water solubility	: 212.5 g/l @20°C (study result, OECD Guideline 105)
Partition coefficient	: not applicable (inorganic substance)
Auto-ignition temperature	: non-flammable
Decomposition temperature	: not information available
Viscosity	: not applicable (solid)
Explosive properties	: non-explosive (void of chemical groups associated with explosive properties)
Oxidising properties	: non-oxidising (based on the chemical structure of the substance and the oxidation state of the constituent element)

10. STABILITY AND REACTIVITY

10.1 [Reactivity](#)

- Decomposes by reaction with strong acids to evolve carbon dioxide

10.2 [Chemical Stability](#)

- Stable under recommended storage conditions (see Section 7)

10.3 [Possibility of hazardous reactions](#)

- None

10.4 [Conditions to Avoid](#)

- Contact with acids unless under controlled conditions
- Exposure to moisture

10.5 [Incompatible materials](#)

- Finely divided aluminium

10.6 [Hazardous decomposition products](#)

- None

11. TOXICOLOGICAL INFORMATION

11.1 [Information on Toxicological Effects](#)

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Toxicity endpoints	Details of the effects assessment
Acute toxicity	<p>Oral : LD₅₀, rat 2800 mg/kg bw Dermal : LD₅₀, rabbit >2000 mg/kg bw Method: EPA 16 CFR 1500.40 Inhalation : LC₅₀, rat 2300 mg/m³ air Method: based on OECD Guideline 403</p> <p>Values exceed the cut off limit of 2000mg/kg established by EU Directive 67/548/EEC and EU Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation (EC) No. 1272/2008</p> <p>Classification for acute toxicity: is not warranted</p>
Irritation/ corrosion	<p>Eye irritation : irritating Method: OECD Guideline 405 Skin irritation : not irritating Method: OECD Guideline 404 Respiratory irritation : not irritating Based on available data</p> <p>Classification for Eye irritancy : Xi, R36 (irritating to eyes) according to Directive 67/548/EEC : Category 2, H319 (causes serious eye irritation) according to CLP Regulation (EC) 1272/2008</p> <p>Classification for Skin irritancy : is not warranted Classification for Respiratory irritancy : is not warranted</p>
Sensitisation	<p>No data available on the sensitisation of sodium carbonate. Sodium carbonate is considered not to have any sensitising properties, based on the physiological role of both its constituent ions and its long-term historical and wide dispersive use in industrial processes and consumer products.</p> <p>Classification for sensitisation: is not warranted</p>
Repeated dose toxicity	<p>Oral : Sodium carbonate dissociates into ions that are present physiologically in relatively high levels in vertebrates. Therefore, repeated dose toxicity studies are considered (scientifically) unnecessary, in accordance with column 2 of REACH Annex VIII and IX. Furthermore, sodium carbonate is used as a food additive, which confirms that the substance has a low Repeated dose toxicity.</p> <p>Dermal : Sodium carbonate dissociates into ions that are present physiologically in relatively high levels in vertebrates. Therefore, repeated dose toxicity studies are considered (scientifically) unnecessary, in accordance with Column 2 of REACH Annex VIII and IX</p> <p>Inhalation : Sodium carbonate dissociates into ions that are present physiologically in relatively high levels in vertebrates. Therefore, repeated dose toxicity studies are considered (scientifically) not necessary, In accordance with column 2 of REACH Annex VIII and IX.</p> <p>Classification for repeated dose toxicity: is not warranted</p>
Mutagenicity	<p>In vitro – The available <i>in vitro</i> tests (SOS chromotest with sodium carbonate and Ames test with sodium bicarbonate) were negative. Furthermore sodium bicarbonate is naturally present in cells and both the structure of sodium bicarbonate and sodium carbonate do not indicate a genotoxic potential. Therefore, there is no reason to evaluate the potential genotoxicity of sodium carbonate further and no genotoxic effects are expected.</p> <p>Classification for mutagenicity is not warranted</p>

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Toxicity endpoints	Details of the effects assessment
Carcinogenicity	No data available for carcinogenicity of sodium carbonate. Although the substance has a wide and varied use, there are no indications that it can induce hyperplasia, pre-neoplastic lesions or is mutagenic. Therefore, a carcinogenicity study is considered unnecessary Classification for carcinogenicity is not warranted
Reproductive toxicity	Fertility : No data available Developmental toxicity : In accordance with Section 1 of REACH Annex XI, testing does not appear scientifically necessary, as the substance will usually not reach the foetus or the male and female reproductive organs when exposed orally, dermally or by inhalation, as it does not become available systemically. As such, it is considered not useful to perform a reproduction study Classification for reproductive toxicity according to Regulation (EC) 1272/2008 is not required

12. ECOLOGICAL INFORMATION**12.1 Toxicity****12.1.1 Acute/short term toxicity to fish**

- LC₅₀ (96h) for freshwater fish : 300 mg/l

12.1.2 Chronic/long term toxicity to fish

- Study scientifically unjustified, sodium carbonate dissociates readily into sodium and carbonate ions in an aquatic environment. Both ions originally exist in nature, and their concentrations in surface water are dependent on various factors, such as geological parameters, weathering and human activities. Therefore, there is a continuous source of both ions into the environment and have been measured extensively in aquatic ecosystems

12.1.3 Acute/short term toxicity to aquatic invertebrates

- EC₅₀ (48h) for freshwater invertebrates : 200-227 mg/l

12.1.4 Chronic/long term toxicity to aquatic invertebrates

- Study scientifically unjustified, sodium carbonate dissociates readily into sodium and carbonate ions in an aquatic environment. Both ions originally exist in nature, and their concentrations in surface water are dependent on various factors, such as geological parameters, weathering and human activities. Therefore, there is a continuous source of both ions into the environment and have been measured extensively in aquatic ecosystems

12.1.5 Acute toxicity to algae and aquatic plants

- Study scientifically unjustified, sodium carbonate dissociates readily into sodium and carbonate ions in an aquatic environment. Both ions originally exist in nature, and their concentrations in surface water are dependent on various factors, such as geological parameters, weathering and human activities. Therefore, there is a continuous source of both ions into the environment and have been measured extensively in aquatic ecosystems

12.1.6 Toxicity to soil macro-organisms

- In accordance with REACH Annex XI a study is not required as in water sodium carbonate is dissociated into sodium and carbonate ions, both of which will not adsorb on particulate matter. Furthermore, exposure of the soil compartment is unlikely

12.1.7 Toxicity to terrestrial plants

- In accordance with REACH Annex XI a study is not required as in water sodium carbonate is dissociated into sodium and carbonate ions, both of which will not adsorb on particulate matter. Furthermore, exposure of the soil compartment is unlikely

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12.2 Persistence and degradeability

- In water : Not applicable (quickly dissociates)
- In soil : Not applicable (inorganic substance)
- In sediment : Not applicable (inorganic substance)

12.3 Bioaccumulative Potential

- Not bioaccumulative (inorganic substance that in water dissociates into sodium and carbonate ions, which do not accumulate in living tissues)

12.4 Mobility in Soil

- If sodium carbonate is emitted to soil it can escape to atmosphere as carbon dioxide, precipitate as a metal carbonate, form complexes or stay in solution

12.5 Results of PBT and vPvB Assessment

- According to Annex XIII of REACH Regulation inorganic substances do not require assessment

12.6 Other Adverse Effects

- No other adverse effects are identified

13. DISPOSAL CONSIDERATIONS**13.1 Waste Treatment Methods**

- If recycling or re-use is not practicable, dispose of in compliance with local or national regulations
- Neutralise with acid under controlled conditions
- Dilute with plenty of water

Packaging:

- Where possible, recycling is preferred to disposal or incineration
- Clean container with water, dispose of rinse water in accordance with local or national regulations
- Must be incinerated in a registered incineration plant with permit from the local authorities

14. TRANSPORT INFORMATION

Sodium carbonate is not classified as hazardous for transport

14.1 UN Number

- Not regulated

14.2 UN proper shipping name

- Not regulated

14.3 Transport hazard class

- Land Transport	: ADR/RID	Not restricted
- Inland Waterway Transport	: ADN	Not regulated
- Sea Transport	: IMO/IMDG	Not regulated
- Air Transport	: ICAO-TI/IATA-DGR	Not regulated

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations**

- Water hazard class : WGK 1, VwVwS (Germany)
- TSCA Inventory : Listed

15.2 Chemical safety assessment

- A Chemical Safety Assessment/Report (CSA/CSR) has been undertaken on sodium carbonate

16. OTHER INFORMATION**16.1 Indication of changes**

Section 1 – change of company name, logo and contact details

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16.2 Abbreviations and acronyms

WEL : Workplace exposure limit
ACGIH : American Conference of Industrial Hygiene
TWA : Time Weighted Average
DNEL : Derived no effect level
NOEC : No Observed Effect Concentration
PBT : Persistent, Bioaccumulative, Toxic
vPvB : very Persistent, very Bioaccumulative
PNEC : Predicted No Effect Concentration
ADR : European Agreement Concerning the International Carriage of Dangerous Goods by Road
RID : International Rule for Transport of Dangerous Substances by Rail
ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterway
IMO/IMDG : International Maritime Organization/International Maritime Dangerous Goods Code
ICAO/IATA : International Civil Aviation Organization/International Air Transport Association
OECD : Organisation of Economic Co-operation and Development
SIDS : Screening Information Data Set

16.3 Key literature references and sources of data

Data is taken from the Chemical safety report (CSR) and/or OECD SIDS report for sodium carbonate

16.4 Further Information

16.4.1 The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products or in the case of processing, the information on this safety data sheet is not necessarily valid.

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