Safety Data Sheet

Date of Issue: 05.10.2021 Date of Expiry: 05.10.2026

1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name : **ECP Limited**
Address : PO Box 34125, Birkenhead, Auckland 0746
Telephone : +64 9 480 4386
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Emergency phone number : 0800 243 622 (24 hours)

Product Name	**Sodium Carbonate decahydrate**
Product Code	**46401**
CAS No.	**6132-02-1**

Recommended use : Laboratory Investigations

2: Hazard's identification

2.1 GHS Classification
Eye irritation (Category A), H319

2.2 GHS Label elements, including precautionary statements
Pictogram

Signal word : Warning

Hazard statement(s)
H319 Causes serious eye irritation.

Precautionary statement(s)
Prevention
P264 Wash skin thoroughly after handling.

Response
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.

2.3 Other hazards - none

3: Composition/information on ingredients

3.1 Substances

Synonyms	:	Soda
Formula	:	CNa2O3 · 10H2O
Molecular weight	:	286.14 g/mol
CAS-No.	:	6132-02-1
EC-No.	:	207-838-8
Index-No.	:	011-005-00-2

Component	Classification	Concentration
Sodium carbonate decahydrate		
	6.1 E; 6.4 A; H303, H319	<= 100 %

4: First aid measures

4.1 Description of first-aid measures

General advice
Consult a physician. Show this material safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Sodium oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in

suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with workplace control parameters
We are not aware of any national exposure limit.

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment
Eye/face protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance		
Form	:	crystalline
Color	:	colourless
b) Odor	:	No data available

c) Odor Threshold	:	No data available
d) pH	:	11.0 - 12.0 at 50 g/l at 25 °C
e) Melting point/freezing point	:	No data available
f) Initial boiling point and boiling range	:	No data available
g) Flash point	:	Not applicable
h) Evaporation rate	:	No data available
i) Flammability (solid, gas)	:	No data available
j) Upper/lower flammability or explosive limits	:	No data available
k) Vapor pressure	:	No data available
l) Vapor density	:	No data available
m) Relative density	:	1.440 g/cm3 at 20 °C
n) Water solubility	:	ca.143 g/l at 20 °C
o) Partition coefficient: n-octanol/water	:	No data available
p) Autoignition temperature	:	No data available
q) Decomposition temperature	:	No data available
r) Viscosity	:	No data available
s) Explosive properties	:	No data available
t) Oxidizing properties	:	No data available

9.2 Other safety information
Bulk density 0.7 - 0.9 g/l

10: Stability and reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Avoid moisture.

10.5 Incompatible materials
Strong acids, Aluminium

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sodium oxides
Other decomposition products - No data available
In the event of fire: see section 5

11: Toxicological information

11.1 Information on toxicological effects
Acute Toxicity - Oral LD50 (rat): 2800 mg/kg (anhydrous).
Acute Toxicity - LC50 (rat): 2,300 mg/l/2hr (anhydrous).

Inhalation
May be harmful if swallowed. May cause irritation of the mouth, throat and stomach. Prolonged or repeated exposure to sodium carbonate may be corrosive on the

gastrointestinal tract with symptoms including severe abdominal pains, vomiting, diarrhoea, possible circulatory collapse and death.

Ingestion
Inhalation of dust may be harmful and may cause irritation to the respiratory tract including the nose, throat and lungs. Symptoms may include coughing, sneezing, headache, laryngitis, shortness of breath, pulmonary edema, and difficulty breathing. Excessive contact is known to cause damage to the nasal septum.

Inhalation
Dust and weak solutions may be irritating to skin of sensitive individuals causing redness and blistering. Concentrated solutions may be corrosive, causing severe irritation and burning.

Skin
Dust or concentrated solutions may irritate or burn the eyes. Contact may be corrosive to the eyes, causing conjunctival oedema and corneal destruction. Risk of serious injury increase if eyes are kept tightly closed. Other symptoms

12: Ecological information

12.1 Toxicity
Toxicity to fish
static test LC50 - Lepomis macrochirus (Bluegill sunfish) - 300 mg/l - 96 h
Remarks: (anhydrous substance)(ECHA)

Toxicity to daphnia and other aquatic invertebrates
semi-static test EC50 - Ceriodaphnia (water flea) - 220 - 227 mg/l - 48 h
Remarks: (anhydrous substance)(ECHA)

12.2 Persistence and degradability
The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
Discharge into the environment must be avoided.

13: Disposal considerations

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14: Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	**UN Number**	-	-	-
14.2	**UN Proper Shipping name**	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3	**Transport Hazard Class**	-	-	-
14.4	**Packaging group**	-	-	-
14.5	**Environmental Hazards**	No	No	No
14.6	**Special precautions for user**	-		
14.7	**Incompatible materials**	Strong acids , Aluminium		

15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulatory information
HSNO Approval Code: HSR003265
HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006
Tracking Required: not required, not required
Approved Handler Cert.: not required

16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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