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博源集团

INNER MONGOLIA IHJUCHEM INDUSTRIAL CO., LTD

3rd Floor, No.20 Building, Yitaihuafu, Wantong Road,Ruyi development District,Hohhot,Inner Mongolia, China

TEL. +86-471-5201811/12/13/14/15/16/19; FAX: +86-471-5201818

Section 1 – Company Identification and Chemical Product

Company: INNER MONGOLIA IHJUCHEM INDUSTRIAL CO.,LTD
Address: 14TH FLOOR, XIHUA BUILDING, XING AN NORTH RD. XINCHENG DIS. HOHHOT, INNER MONGOLIA,
Substance: Sodium Carbonate
Synonyms: Disodium carbonate; Light sodium carbonate; Dense sodium carbonate; Soda Ash (light or dense); carbonic acid; disodium salt
Product use: Various applications in detergents, textile, and food industries
Revision Date: Oct 2008

Section 2 – Composition, Information on Ingredients

Component: Sodium Carbonate
CAS Number: 497-19-8
Percentage: 99 min

Section 3 – Hazards Identification, Including Emergency Overview

Principal effect due to irritant properties

Inhalation:

Nose and throat irritation at low concentrations, coughing at high concentrations. In case of repeated or prolonged exposure: risk of sore throat, nose bleed.

Ingestion:

Severe irritation and risk of burns to the mouth, throat, esophagus & stomach. May cause nausea and vomiting. May cause nausea & vomiting (bloody), abdominal cramps & diarrhea (bloody) for large quantities ingestion.

Skin Contact:

May cause irritation when in contact with damp skin. May cause dry and chapped skin for repeated contact.

Eye Contact:

Severe eye irritation, watering, redness and swelling of the eyelids; risk of serious or permanent eye lesions.

Section 3 – Hazards Identification, Including Emergency Overview (continue)

Chronic Exposure:

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens

Aggravation of Pre-existing Conditions:



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No data available.

Section 4 – First Aid Measures

Inhalation:

Remove victim to fresh air from dusty environment. If symptoms persist seek medical attention.

Ingestion:

Give several glasses of water to drink to dilute if subject is completely conscious. DO NOT induce vomiting. Transport to hospital or medical center without delay. Classical resuscitation measures if the subject is unconscious.

Skin Contact:

Remove contaminated clothing; wash exposed area with soap and running water. Seek medical advice if irritation develops.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Consult with an ophthalmologist in all cases.

Note to Physician:

Treat symptomatically based on judgment of doctor and individual reactions of patients. Ingestion: treatment of gastrointestinal tract burns and resulting effects.

Section 5 – Fire Fighting Measures

Flash Point

Not Applicable

Fire / Flammability:

Not considered to be a fire hazard / Not flammable under conditions of use.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Not combustible. In case of fire in close proximity, all means of extinguishing are acceptable.

Special Information:

The product does not require any special precautions

Section 6 – Accidental Release Measures

Precautions:

Follow the protective measures given in Section 8

Cleanup Method:



Collect the product with suitable means avoiding dust formation. Place everything into a closed, labeled container compatible with the product. Clean the area with large quantities of water and refer to Section 13 for disposal methods.

Section 7 – Handling and Storage

Handling & Storage:

Operate in a well-ventilated & dry area. Do not get in eyes. Do not breath dusts. Avoid direct or prolonged contact with skin.

Other Precautions

Avoid dust formation and follow the protective measures given in Section 8.

Section 8 – Exposure Controls & Personal Protection

Engineering Controls

Premises ventilation; provide local ventilation suitable for the emission risk.

Respiratory protection:

In case of dust clouds/fog/fumes, dust mask type P2. Use only respiratory protection that conforms to international / national standards.

Eye Protection:

Use dust proof goggles if dusty. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Recommended materials: Neoprene, rubber.

Section 9 – Specification

SODA-00031

Physical State:

Powder

Color:

White

Section 9 – Specification (continue)

Odor:

Odorless

Molecular Weight:

105.99

Molecular Formula:

Na₂CO₃

Boiling Point:

Not Applicable

Flash Point:

Not Applicable

Melting Point (°C):

851

Specific Gravity:

2.5

Bulk Density:

0.5 – 0.7 (for light)



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Purity (%):	0.9 – 1.2 (for dense) ≥ 99.0
Whiteness (%):	≥ 80
pH:	≥ 11

Section 10 – Stability and Reactivity Data

Stability

Stable under normal conditions of use (see section 7)

Conditions to Avoid

Moisture and extreme heat

Materials to Avoid

Aluminum, fluorine, humid air, moisture, sulfuric acid, acids, magnesium, phosphorus pentoxide

Hazardous Decomposition Products

Negligible

Section 11 – Toxicological Information

Acute Toxicity:

- Oral route LD₅₀, rat, > 2.000mg/kg
- Inhalation, LC₅₀, 2hr, rat, 2.3 mg/l

Irritation

- Rabbit, non irritant (skin)
- Rabbit, irritant (eyes)

Chronic toxicity

- Inhalation, rat, target organ: Lungs, 0.07mg/l, observed effect
- No effect on reproduction

Comments

Toxic effect linked with irritant properties

Acute ecotoxicity

- Fishes, *Lepomis macrochirus*, LC₅₀, 96hr, 300 mg/l
- Crustaceans, *Daphnai magna*, EC₅₀, 48hr, 265mg/l
- Algae, *Nitzscheria linearis*, EC₅₀, 5days, 242mg/l

Section 12 – Ecological Information (continue)

Chronic ecotoxicity

- Phytoplankton, EC, bomass, 7days, 14mg/l



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Mobility

Air

Result: Not applicable

Water

Result: considerable solubility and mobility

Soil/sediments

Result: non-significant adsorption

Abiotic degradation

Water, hydrolysis

Degradation's products: carbonate (pH > 10) / bicarbonate (pH 6-10) / carbonic acid / carbon dioxide (pH < 6)

Soil

Result: hydrolysis as a function of pH

Biotic degradation

Aerobic/anaerobic

Result: not applicable (inorganic compound)

Potential for bioaccumulation

Log Po/w

Result: not applicable (ionizable inorganic compound)

Comments

Observed effects are related to alkaline properties of the product. Product is not significantly hazardous for the environment.

Section 13 – Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Waste treatment

Dissolve in water; Neutralize the product with an acid or dilute with large quantities of water

Packaging treatment



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Rinse the empty containers with plenty of water and treat the effluent in the same way as waste. Empty and clean containers are to be r3used in conformity with regulations. Otherwise, dispose of the containers by dispatching them to an approved industrial incineration facility.

Section 14 – MSDS Transport Information

Not Regulated.

Section 15 – Regulatory Information

EC Labelling

Name of dangerous products (to indicate on the label):

Sodium Carbonate

Section 16 – Other Information

IMPORTANT: The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty of merchantability or of fitness for a particular purpose, or warranty or guaranty of any other kind, express or implied, is made regarding performance, suitability, stability or otherwise. The information included herein is not intended to be all-inclusive as to the appropriate manner and/or conditions of use, handling and/or storage. Factors pertaining to certain conditions of storage, handling, or use of this product may involve other or additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended to, and nothing herein shall be construed as a recommendation to, in fringe any existing patents or violate any laws, rules, regulations or ordinances of any governmental entity.