

Material Safety Data Sheet

Section 1 –Chemical Product and company identification

Product Identification : **Sodium amide**

Company Identification : QUZHOU HENGSHUN CHEMICAL INDUSTRIAL CO.,LTD

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Section 2 - Composition/Information on Ingredients

Chemical name	assay	CAS NO.	EINECS#
Sodium amide	99%	7782-92-5	231-971-0

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Reacts violently with water liberating extremely flammable gases.

May form explosive peroxides. Causes burns.

Potential Health Effects

Eye:

Causes eye burns. May cause eye injury.

Skin:

Causes skin burns.

Ingestion:

Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Causes gastrointestinal tract burns.

Inhalation:

May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Chronic:

Not available.

Section 4 - FIRST AID MEASURES

Eyes :

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.

Skin :

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion : If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

Inhalation : Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician :

Treat symptomatically.

Antidote : none reported

Section 5 - FIRE FIGHTING MEASURES General Information

Water Reactive: Material will react with water and may release a flammable and/or toxic gas.

Extinguishing Media : Use dry sand or earth to smother fire. Do NOT use carbon dioxide. DO NOT USE WATER OR FOAM..

Autoignition Temperature : 450^oC (842.00^oF)

Section 6 - ACCIDENTAL RELEASE MEASURES

General Information :

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks :

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable clean, dry container for disposal. Do not get water inside containers

Section 7 - HANDLING AND STORAGE

Handling:

Do not allow water to get into the container because of violent reaction. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not allow contact with water. Use

Storage: only in a chemical fume hood.
Store in a cool, dry place. Store in a tightly closed container.
Keep under a nitrogen blanket. Water free area.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls :

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits			
Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium amide	None listed	none listed	none listed

OSHA Vacated PELs : Sodium amide:- No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear chemical goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystalline powder
Color: grey - white
Odor: ammonia-like
pH: Not available.
Vapor Pressure: Not available.
Viscosity: Not available.
Boiling Point: 400 deg C
Freezing/Melting Point: 210 deg C
Autoignition Temperature: 450 deg C (842.00 deg F)
Flash Point: Not available.
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature: >330 deg C

Solubility in water: Reacts
Specific Gravity/Density:
Molecular Formula: H2NNa
Molecular Weight: 39.01

Section 10- STABILITY AND REACTIVITY

Chemical Stability:

Combines vigorously with water with the evolution of heat. Reacts violently with water. Moisture sensitive. When exposed to the atmosphere, sodium amide rapidly absorbs H₂O and CO₂. When only limited absorption takes place, as in poorly sealed containers, products are formed which render the resulting mixture highly explosive. The formation of oxidation products is accompanied by the development of a yellow/brownish color. If discoloration is noticed, the substance should be destroyed at once by covering with much benzene, toluene, or kerosene and slowly adding diluted ethanol with stirring.

Conditions to Avoid:

Incompatible materials, ignition sources, dust generation, moisture, exposure to air, contact with water, excess heat.

Incompatibilities with Other Materials:

Oxidizing agents, acids, nitrates, nitrites, oxygen, halogenated organics (e.g. dibromoethane, hexachlorobenzene, methyl chloride, trichloroethylene).

Hazardous Decomposition Products:

Nitrogen oxides, sodium oxide, ammonia, ammonia, sodium hydroxide..

Hazardous Polymerization: Has not been reported

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 7782-92-5 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

Sodium amide -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Not Available

Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA D-Series Maximum Concentration of Contaminants: Not listed.

RCRA D-Series Chronic Toxicity Reference Levels: Not listed.

RCRA F-Series: Not listed.

RCRA P-Series: Not listed.

RCRA U-Series: Not listed.

Not listed as a material banned from land disposal according to RCRA.

Section 14 - TRANSPORT INFORMATION

IATA

Shipping Name: WATER-REACTIVE SOLID, CORROSIVE, N.O.S.*
Hazard Class: 4.3
UN Number: 3131
Packing Group: II

IMO

Shipping Name: WATER-REACTIVE SOLID, CORROSIVE, N.O.S.
Hazard Class: 4.3
UN Number: 3131
Packing Group: II

RID/ADR

Shipping Name: WATER-REACTIVE SOLID, CORROSIVE, N.O.S.
Hazard Class: 4.3
UN Number: 3131
Packing group: II

Section 15 - REGULATORY INFORMATION.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F C

Risk Phrases:

R 14/15 Reacts violently with water liberating extremely flammable gases.

R 19 May form explosive peroxides.

R 34 Causes burns.

Safety Phrases:

S 7/8 Keep container tightly closed and dry.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 43D In case of fire, use sodium carbonate or dry sand (never use water).

WGK (Water Danger/Protection)

CAS# 7782-92-5: 2

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 7782-92-5 is listed on Canada's DSL List.

CAS# 7782-92-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 7782-92-5 is listed on the TSCA inventory.

Section 16 other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way 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.