

## PRODUCT INFORMATION

### 1. NAMES

- o. Chemical Name : Sodium Cyanide
- o. Formula : NaCN
- o. Molecular weight : 49.01

### 2. SHAPE

- o. Briquettes (32~ 34mm D x 15mm H : approx. 14g/pc)

### 3. PHYSICAL PROPERTIES

- o. White deliquescent crystalline solid
- o. Odorless when dry. When moist it has a slight odor of hydrocyanic acid which smells like almonds. It may also have the odor of ammonia.
- o. Soluble in water. Slightly soluble in alcohol.
- o. Melting point : approx. : 560°C
- o. Boiling point : approx. : 1,500°C

### 4. SPECIFICATIONS

Sodium cyanide (NaCN)	98.0 wt.% min.
Sodium hydroxide (NaOH)	0.5 wt.% max.
Sodium carbonate (Na <sub>2</sub> CO <sub>3</sub> )	1.0 wt.% max.
Moisture (H <sub>2</sub> O)	0.5wt.% max.

## 5. APPLICATION

- o. Mining industry : Extraction of gold silver and copper from ores, Floatation agent.
- o. Metal industry : Electroplating, Heat treatment of metals.
- o. Chemical industry : Manufacture of dyes, pigments, medicines, chelating compounds and insecticide etc.

## 6. PACKING

- o. Net 50kgs iron drum with inner PE bag.
- o. Net 1,000kgs plywood box with inner PE and laminated PP woven bag.

## 7. SHIPPING PORT

Busan, Korea

## 8. TRANSPORTATION

According to IMDG code class 6.1, UN NO. 1689.

## 9. HAZARDOUS PROPERTIES

- o. Extremely poisonous if ingested or inhaled, may cause poisoning by skin contact and corrosive to the skin when in strong solution.
- o. Contact with acids liberates poisonous and flammable hydrocyanic acid gas.

## 10. SAFETY PRECAUTIONS IN HANDLING AND STORAGE

- o. Do not inhale sodium cyanide dust or hydrocyanic acid gas. Wear respiratory protective equipment whenever there is danger of such inhalation. All rooms in which sodium cyanide is stored or handled should be provided with adequate ventilation.
- o. Avoid contact with skin and do not get in eyes. Wear safety goggles, face shield, aprons, gloves, suits, safety shoes or other protective materials whenever there is danger of such contact.
- o. Wash thoroughly after handling.

- o. Sweep up spillage immediately. Do not flush to sewer which may contain acids.
- o. Keep container closed and away from acids, nitrate-nitrite mixtures or peroxides.  
Store in a dry place.
- o. Food, gum and tobacco should not be carried in work areas where contamination is possible.

## 11. FIRST AID

- o. Their symptoms of poisoning we rapid onset of coma and cessation of respirations or, in milder case, weakness, headache, dizziness and vomiting followed by coma and occasionally by convulsions.
- o. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes, for eyes call a physician.
- o. In case of ingestion or symptoms or signs of cyanide poisoning, call a physician while carry patient to fresh air, have him lie down, remove contaminated clothing but keep patient warm, start antidote treatment as follows :

### (IN CASE OF INGESTION)

Break an amyl nitrite pearl in a cloth and hold lightly under nose for 15 seconds. If patient is conscious, or when consciousness returns, give emetic( 1 table spoonful of salt in a glass of warm water)and repeat until vomit fluid is clear. Repeat inhalation of amyl nitrite 5 time at about 15-second intervals. Repeat as necessary using a fresh amyl nitrite pearl even 3 minutes. Use artificial respiration if breathing has stopped.

### (IN CASE OF SYMPTOMS OR SIGNS OF CYANIDE POISONING)

Break an amyl nitrite pearl in a cloth and hold lightly under nose for 15 seconds. Repeat 5 times at about 15 second intervals. Repeat as necessary using a fresh amyl nitrite pearl every 3 minutes. Use artificial respiration if breathing has stopped.

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