

MATERIAL SAFETY DATA SHEET

<p>Point no. 1 Chemical product synonyms Name of Manufacturing Company</p>	<p>Chemical product and company identification. Sodium Cyanide Sodium Cyanide M/s. Gujarat Alkalies & Chemicals Limited. P.O. Petrochemicals, Dist. Vadodara Pin code no. 391 346 State – Gujarat, INDIA Telephone No. 2232681, 2232981 –82, 2232039, Fax No. 2232130</p>
<p>Point No. 2</p>	<p>Composition, Information on ingredients Sodium Cyanide, CAS No. 143-33-9</p>
<p>Point No. 3</p>	<p>Hazardous Identification Sodium Cyanide, NaCN, CAS No. 143-33-9. U.N. No. 1689, Hazchem No. 4X, Poison, class – 6.1 Hazardous Waste - I.D. No. 1 NFPA Rating :- Health – 3 Flammability–0 Reactivity-0</p>
<p>Point No. 4</p>	<p>First Aid Measure Start treatment soon, call physician, carry victim to fresh air, lie down and warm victim. breath amyl-nitrite pearl in lightly under victim’s nose for a 15 seconds. Repeating five time at about 15 second intervals. Other antidotes sodium nitrate, sodium thiosulaphate. Skin contact :- Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes, wash clothing before reuse. Administer antidote kit and oxygen per preplanned instructions if symptoms occur. Eye contact :- Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Inhalation :- If inhaled, remove to fresh air, administer antidote kit and oxygen per preplanned instructions. Keep patient warm and at rest. Do not give mouth to mouth resuscitation. Ingestion :- If ingested, antidote kit and oxygen should be administered per above.</p>
<p>Point No. 5</p>	<p>Fire Fighting Measure :- not combustible fire in the area where NaCN, is present carbon dioxide extinguishing are not to be used. Special procedures :- it should not be found with acids, oxidizing – chemicals, food articles. High poisonous gases are produced. Wear full protective clothing and air breathing apparatus B.A. Set with positive pressure mode.</p>
<p>Point No. 6</p>	<p>Accidental Release Measures Spread bleaching powder and sodium Hypochlorite solution in excess and sweep the floor. seal all waste in vapour tight plastic bags for eventual disposal.</p>
<p>Point No. 7</p>	<p>Handling and storage All safety appliances should be used to avoid physical contact with Sodium Cyanide. Do not work with open wounds, cut skin, store in non leaky tight container with identification marking for poisonous material in well ventilated ware house away from acids, oxidizing agents, protect container from physical damage.</p>
<p>Point No. 8</p>	<p>Exposure controls TLV (ACGIH) 5 ppm - mg/m³ (as CN skin) Exposure limit LD – 50 (oral – rat) - 6.44 mg/kg.</p>

	Personal Protective equipment :- PVC hand gloves, dust mask, HCN service canister, on line air breathing apparatus, B.A. Set, safety goggles, Gum boots, protective clothing, provide safety shower, eye washer. Do not eat or drink at work place.
Point No. 9	Physical and chemical properties Physical state :- Solid Appearance :- white powder, tablets Odour :- odorless when dry, give slight bitter almond, odour of HCN when moist. Solubility in water at 58.3% at 0°C vapour density :- (Air = 1), Not pertinent pH :- Alkaline boiling range/point °C :- -1496°C Melting/Freezing point °C :- 563.7°C Vapour pressure :- 1 mm Hg at 817°C specific Gravity :- 1.6 at 25°C, 3.65 (water = 1)
Point No. 10	Stability and Reactivity Chemical Stability :- stable Incompatibility with all acids oxidizing agents such as nitrates, chlorates with CO ₂ , water and peroxides all foods and beverages. Reactivity :- (i) Acidic contact with acid will liberate highly toxic HCN. Hazardous reaction products:- Dissolves in water to form toxic hydrogen cyanide, unless pH is kept alkaline (79.5 pH).
Point No. 11	Toxicological information Route of entry :- Skin contact, eye contact, inhalation, ingestion. Effect of exposure/symptoms :- Minor headache, dizziness, unsteadiness of gait, feeling of suffocation, heavy breathing difficulty, unconsciousness, cramps & even death. Sodium cyanide is alkaline, it irritates and corrosives to body tissues on contact. Emergency Treatment :- start treatment soon, call physician, carry victim to fresh air, lie down and warm victim. Have breathe amyl nitrite. Breath amyl nitrite pearl in lightly under victim's nose for a 15 seconds, repeating five times at about 15 second interval. Seek medical aid.
Point No. 12	Ecological information :- No data found.
Point No. 13	Disposal Consideration Waste disposal method :- Seal all waste in vapour tight plastic bags for eventual disposal.
Point No. 14	Transport information :- Formula : NaCN, CAS NO. 143-33-9 U.N. No. 1689 Regulated shipping identification name:- Sodium Cyanide Hazchem No. 4X, Code/Label :- poison, class 6.1 Hazardous Waste I.D. No. 1
Point No. 15	Regulatory information :- Hazardous ingredients Sodium cyanide CAS No. 143-33-9
Point No. 16	Other Information Information contained in this material data sheet is believed to be reliable but no representation. Guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacture/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufacture handled or sold by him as the case may be. The Government makes no warranties, expressed or implied, in respect of the adequacy of this document for any particular purpose.