1. Product and Company Identification

Material name	Padapon NaoH
Revision date	16-01-2017
Chemical class	Sodium Hydroxide 98%
Cas	1310-73-2
Manufacturer	Padideh Shimi Gharb Co. No.5.21rd St, Vozara St,Argentina Sq, Tehran, Iran +98-21-43413000

2. Hazards Identification

Appearance: white solid.
Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns. Hygroscopic (absorbs moisture from the air).
Target Organs: Eyes, skin, mucous membranes.

Potential Health Effects
Eye: Causes eye burns. May cause blindness. May cause chemical conjunctivitis and corneal damage.
Skin: Causes skin burns. May cause deep, penetrating ulcers of the skin.
Ingestion: May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock.
Inhalation: Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract.
Chronic: Prolonged or repeated skin contact may cause dermatitis. Effects may be delayed.

3. Composition / Information on Ingredients

Components	**Percent**
Sodium hydroxide	95-100
Sodium carbonate	<3.0

4. First Aid Measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately

Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.
Inhalation	If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person
Ingestion	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to physician	Treat symptomatically and supportively

5. Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. Contact with metals may evolve flammable hydrogen gas.
Extinguishing Media	Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers.
NFPA Rating	(estimated) Health: 3; Flammability: 0; Instability: 1

6. Accidental Release Measures

General Information	Use proper personal protective equipment as indicated in Section 8
Spills/Leaks:	Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not get water on spilled substances or inside containers.

7. Handling and Storage

Handling	Wash thoroughly after handling. Do not allow water to get into the container because of violent reaction. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes. Use only with adequate ventilation.
Storage	Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Corrosives area. Keep away from acids. Store protected from moisture. Containers must be tightly closed to prevent the conversion of NaOH to sodium carbonate by the CO2 in air.

8. Exposure Controls / Personal Protection

Engineering controls	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Personal protective equipment	
General Eye / face protection	Wear chemical splash goggles and face shield.
Clothing	Wear appropriate protective clothing to prevent skin exposure
Respiratory protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced..

9. Physical & Chemical Properties

Assay (W/W	98
Appearance	ok
Carbonate (Na2CO3),w/w	0.6
Chloride(NaCl),w/w	0.02
Sulfate(Na2SO4),w/w	0.005
Silicate(Sio2),w/w	0.005
Fe,ppm	20

Aluminium(Al2O3),ppm	20
Heavy metals(Pb),ppm	20
Hg,ppm	0.2
Arsenic(As2O3),ppm	0.2

10.Stability & Reactivity

Chemical stability	Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to avoid	Moisture, contact with water, exposure to moist air or water, prolonged exposure to air.
Incompatible materials	Water, metals, acids, aluminum, zinc, tin, nitromethane, leather, flammable liquids, organic halogens, wool.
Hazardous decomposition products	Toxic fumes of sodium oxide.
Hazardous Polymerization	Will not occur.

11.Toxicological Information

Product	Test Results
Padapon NaoH	
Carcinogenicity	CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 497-19-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found
Teratogenicity: No information found
Reproductive Effects: No information found
Mutagenicity: See actual entry in RTECS for complete information.
Neurotoxicity: No information found
Other Studies

12.Ecological Information

Ecotoxicological data

Product	Test Results
Padapon NaoH	No information available.

13.Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination

are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14.Transport Information

Shipping Name:	SODIUM HYDROXIDE, SOLID	SODIUM HYDROXIDE SOLID
Hazard Class:	8	8
UN Number:	UN1823	UN1823
Packing Group:	II	II

15.Regulatory Information

Reportable Quantity	Not available

16.Other Information

HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0 Personal protection: X
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
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