NaOH-50

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Material Safety Data Sheet

1 Product and Company Identification:				
•	Product name: <u>NaOH-50, Sodium</u>	Hydroxide, 50% Aqueous	Solution	
•	Manufacturer: CYANTEK CORPORATION 3055 Osgood Court Fremont, CA 94538 (510) 651-3341			
•	24 Hour Emergency Telephone Nu CHEMTREC: (800) 424-9300 (Nort		-3887 (Int'l.)	
2 <u>Co</u>	omposition/Information on Ingree	lients:		
•	Chemical formula: NaOH + H2O Hazardous components:			
	Component	Percent by wt.	CAS Number	
	Sodium Hydroxide Water	50% 50%	1310-73-2 7732-18-5	
З На	zards identification			
•	Hazard description: Corrosive. Extremely corrosive to eyes, skin and respiratory system. Classification system The classification was made from the hazardous components' MSDS's.			
4 <u>F</u> i	rst aid measures			
•	<pre>Inhalation: Supply fresh air; Skin contact: Flush affected a contaminated clothing, get med Eye contact: Rinse opened eye Consult a doctor immediately. Ingestion: Give large amounts</pre>	areas with plenty of wa dical attention if irri for several minutes ur	ater, remove tation persists. nder running water.	
5 <u>F</u> i	re fighting measures			
•	Suitable extinguishing agents: spray. Fight larger fires wit Protective equipment Wear gogg contained breathing apparatus, clothing.	ch water spray or alcor gles, rubber gloves and	nol resistant foam. 1 boots, self	

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Ac	cidental release measures		
•	Personal precautions: Wear goggles, rubber boots and gloves, and caustic resistant protective clothing.		
•			
	system, surface or ground water.		
•	Methods for cleaning up: Contain the spill by diking/absorbing with liquid-binding material (sand, diatomite, caustic binders, universal binders). Ensure adequate ventilation.		
Ha	ndling and storage		
	Handling		
•	Information for safe handling:		
	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.		
•	Information about protection against explosions and fires: No special measures required.		
	Storage		
•	Store between 50 and 77 Degrees F.		
	Keep containers tightly sealed.		
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Ex	posure controls and personal protection		
•	Engineering controls:		
	No further data; see section 7.		
	Exposure limits (threshold limit values):		
	Sodium Hydroxide: 2.0 mg/m3 (ceiling)		
•	General protective and hygienic measures:		
	Keep away from foodstuffs and beverages.		
	Immediately remove all soiled and contaminated clothing		
	Wash hands before breaks and at the end of work.		
	Avoid contact with the eyes and skin.		
•	Breathing equipment:		
	In case of brief exposure or low pollution use respiratory filter		
	device. In case of intensive or longer exposure use respiratory		
	protective device that is independent of circulating air.		
•	Protection of hands: Caustic resistant gloves.		
•	Eye protection: Tightly sealed goggles.		
٠	Body protection: Caustic resistant protective work clothing.		

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9 Physical and chemical properties:

- **Physical state:** Liquid
- Color: Clear, colorless
- **Odor:** Odorless
- Boiling point: 140 degrees C
- Flash point: Not applicable
- Self ignition temperature: Not applicable
- Danger of explosion: Product does not present an explosion hazard.
- Vapor pressure at (20 °C): 0.2 kPa
- **Density** at (20 °C): 1.53 g/cm3
- Solubility in water: Fully soluble

10 Stability and reactivity

- Thermal decomposition avoided: No decomposition
- Dangerous reactions: Incompatible with strong acids. Produces flammable and explosive Hydrogen gas if it reacts with metals such as Aluminum, Tin, or Zinc.
- Dangerous products of decomposition: Releases toxic gases if heated to complete evaporation.
- Avoid boiling of product

11 Toxicological information

- Acute toxicity: Corrosive to skin and eyes. Exposure to vapors could cause pulmonary edema
- Primary irritant effect on the skin and eye: Corrosive. Eye damage ranges from mild irritation to severe ulceration and clouding of eye tissue leading to permanent blindness. Sodium Hydroxide is extremely corrosive to skin and is capable of causing severe burns with deep ulceration and permanent scarring. Onset of pain may be delayed minutes to hours.
- Sensitization: No sensitizing effects known.

12 Ecological information:

• General notes: Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- Do not allow product to reach sewage system.
- Dispose of product (including packagings) in accordance with applicable regulations.

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14 Transportation information Land (CFR 49), Maritime (IMDG), Air (ICAO) • **Class:** 8 (corrosive) • **UN Number:** 1824 • Proper Shipping Name: Sodium hydroxide • Packing Group: II 15 Regulations CERCLA Hazardous Substances (with reportable quantity): Sodium Hydroxide (1000#) • Extremely Hazardous Substances (with threshold quantity): None • Toxic Chemicals (Section 313): None • **TSCA Inventory:** All ingredients on TSCA inventory • Proposition 65 List: None • Clean Water Act Hazardous Substance List (with reportable quantity): Sodium Hydroxide (1000#) • Clean Air Act Synthetic Organic Chemical (CAA SOCMI): None • Clean Air Act Accidental Release Prevention Substance, section 112 r (with threshold quantity): None • PSM Highly Hazardous Chemical List (with threshold quantity): None • Safety phrases: Do not breathe fumes. In case of contact with eyes, rinse immediately with plenty of water And seek medical advice. Wear suitable protective clothing. In case of accident seek medical advice immediately. 16 Other information: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.