



HI 70435 5M Sodium Hydroxide Solution

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 OSHA Regulation 29 CFR 1910.1200 Canadian Regulation SOR/88-66

 Revision Date:
 2009-06-10

 Reason for Revision:
 29 CFR 1910.1200 and SOR/88-66 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 70435 5M Sodium Hydroxide Solution

Application: For Chemical Analysis

Company Information (USA):

Technical Service Contact Information:

USA Emergency Contact Information: International Emergency Contact Information: E-mail Address: Hanna Instruments, Inc. 584 Park East Dr, Woonsocket, Rhode Island, USA 02895

1-800-426-6287 (8:30AM - 5:00PM ET) +1-401-766-4260 (8:30AM - 5:00PM ET)

1-800-424-9300 (Chemtrec 24Hr. Emergency)

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

tech@hannainst.com

<u>SECTION 2:</u> HAZARD IDENTIFICATION

Causes severe burns.

SECTION 3:	СОМ	POSITION AND COMPONENT INFORMATION
Component:	Sodium	Hydroxide
EC-No.:	215-185	-5
CAS-No.:	1310-73	-2
Hazard:	С	
Phrases:	R: 35	
Content:	> 5% - <	20%
SECTION 4:	FIRST	T AID MEASURES
After Inhalation	n:	Remove to fresh air. Summon doctor.
After Skin Con	ntact:	Wash affected area with plenty of water. Immediately remove contaminated clothing.
After Eye Cont	tact:	Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call in ophthalmologist.
After Swallowi	ing:	Drink plenty of water (if necessary several liters), avoid vomiting (risk of perforation!). Immediately seek medical advice. Do not attempt to neutralize.
General Inform	nation:	Not available

<u>SECTION 5:</u> FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.

Special Risks:

Non-combustible. Ambient fire may liberate hazardous vapors.

Special Protective Equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

Contain escaping vapors with water.



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<u>SECTION 6:</u> ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Do not inhale vapors. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation. Render harmless: neutralize with diluted sulfuric acid.

SECTION 7: HANDLING AND STORAGE

Handling:

Storage:

Accessible only for authorized persons.

Tightly closed. Store at room temperature (+15 to +25 $^\circ \rm C$ recommended).

<u>SECTION 8:</u> EXPOSURE CONTROL/PERSONAL PROTECTION

Туре	Value	Source	Туре	Value	Source
Sodium Hydr	oxide				
Ceiling	2 mg/m³	Belgium	Ceiling	2 mg/m³	Canada (Ontario)
Ceiling	2 mg/m³	Canada (Quebec)	TWA (8hr)	2 mg/m³	France
TWA (8hr)	2 mg/m³	Greece	TWA (8hr)	2 mg/m³	Hungary
TWA (8hr)	0.5 mg/m³	Poland	Ceiling	2 mg/m³	Portugal
TWA (8hr)	1 mg/m³	Romania	Ceiling	2 mg/m³	Spain
TWA (15min)	2 mg/m³	UK	Ceiling	2 mg/m³	USA (ACGIH)
TWA (8hr)	2 mg/m³	USA (OSHA)			

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory Protection:	Protective Gloves:	Eye Protection:
Required when vapors/aerosols are generated. Work under hood.	Rubber or plastic	Goggles or face mask
Industrial Hygiene:		

Immediately change contaminated clothing. Apply skin-protectve barrier cream. Wash hands and face after working with substance.

SECTION 9:	PHYSICAL/CHEMICAL PRO	OPERTIES			
Appearance:	Colorless liquid	Odor:	Odorless	Density at 20° C	: 1.17 g/cm³
Melting Point:	ND	Boiling Point:	ND	Solubility:	Soluble
pH at 20° C:	> 12	Explosion Limit:	NA	Flash Point:	NA
Thermal Decomp.	<i>:</i> NA				



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SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

In the event of fire: See section 5. Substances to be Avoided:

Acids, metals, light metals

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

Quantitative data on the toxicity of this product is not available.

Potential Health Effects:

Inhalation:	Burns of mucous membranes.
Skin Contact:	Burns, necrosis.
Eye Contact:	Burns, necrosis. Risk of blindness!
Ingestion:	Burns of mouth, mucous membrane, esophagus and gastrointestinal tract. Risk of perforation in the esophagus and stomach.
Further Data:	Systemic affects: collapse, death. further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Acute Toxicity:

Not Available

Chronic Toxicity:

Not Available

Additional Data:

APPLICABLE TO PARTIAL COMPONENT: The following applies to Sodium hydroxide – as the pure substance Acute toxicity Quantitative data on the toxicity of this product are not available. Specific symptoms in animal studies: Eye irritation test (rabbit): burns (RTECS). Skin irritation test (rabbit): burns (RTECS). Subacute to chronic toxicity Mutagenicity (mammal cell test): micronucleus negative (Lit.). Bacterial mutagenicity: Escherichia coli: negative (Lit.). Bacterial mutagenicity: Ames test: negative (Lit.). No teratogenic effect in animal experiments (Lit.).



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SECTION	<u>12:</u> ECOLOGICAL INFO	RMATION		
Quantitative	e data on the ecotoxicity of this p	roduct is not available.		
-	LE TO PARTIAL COMPONENT:			
The followir Biologic deg	ng applies to Sodium hydroxide -	- as the pure substance		
	r the determination of biodegrada	ability are not applicable to inorg	anic substances.	
Behavior in	environmental compartments:			
Ecotoxic eff	on in organisms is not to be experiences	ected.		
Biological e	ffects:			
	ect on aquatic organisms. Toxic ed. Does not cause biological ox		nful effect due to pH shift. Forn	ns corrosive mixtures with water
	on possible in waste water treatm			
Fish toxicity		Ch (in hand water) (ILICLID)		
	chus mykiss LC50 : 45.4 mg/L /9 rus LC50 : 99 mg/L /48h (IUCLID			
Daphnia tox	kicity:	, ,		
	agna EC50 : 76 mg/L /24h (Exter			
Further Da	ta: Do not allow to enter wate	rs, waste waters, or soil!		
SECTION	13: DISPOSAL CONSID	ERATIONS		
Waste Disp	bosal: Chemical residues are g	enerally classified as special wa	ste and thus covered by local r	egulations. Contact local
		ompanies for advice. Handle cor		
SECTION	14: TRANSPORTATION			
Land:	<u>14.</u> TRANSPORTATION	Sea:		Air:
ADR/RID		IMDG: 8/UN 182		ICAO/IATA: 8/UN 1824/PGII
	-			
UN-N: 18	324	Name: SODIUM	HYDROXIDE	Name: SODIUM HYDROXIDE
Name: S	ODIUM HYDROXIDE	SOLUTION	HYDROXIDE	SOLUTION
	ODIUM HYDROXIDE		HYDROXIDE	
Name: S	ODIUM HYDROXIDE	SOLUTION Ems: F-A S-B	to the COMPLETE KIT!	
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Name: S SOLUTIO SECTION Labeling a Symbol: R-phrases:	ODIUM HYDROXIDE DN <u>15:</u> REGULATORY INFO ccording to EC Directives: C: Corrosive 35: Causes severe burns. 26-37/39-45: In case of contac	SOLUTION Ems: F-A S-B Transport data applies DRMATION t with eyes, rinse immediately w	to the COMPLETE KIT!	SOLUTION
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Name: S SOLUTIO SECTION Labeling at Symbol: R-phrases: S-phrases: Contains:	ODIUM HYDROXIDE DN <u>15:</u> REGULATORY INFO ccording to EC Directives: C: Corrosive 35: Causes severe burns. 26-37/39-45: In case of contac suitable gloves and eye/face p (show label where possible).	SOLUTION Ems: F-A S-B Transport data applies DRMATION t with eyes, rinse immediately w rotection. In case of accident or	to the COMPLETE KIT!	SOLUTION
Name: S SOLUTIO SECTION Labeling a Symbol: R-phrases: S-phrases: Contains: SECTION	ODIUM HYDROXIDE DN <u>15:</u> REGULATORY INFO ccording to EC Directives: C: Corrosive 35: Causes severe burns. 26-37/39-45: In case of contac suitable gloves and eye/face p (show label where possible). Sodium Hydroxide	SOLUTION Ems: F-A S-B Transport data applies DRMATION t with eyes, rinse immediately w rotection. In case of accident or	to the COMPLETE KIT!	SOLUTION
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Name: S SOLUTIO SECTION Labeling au Symbol: R-phrases: S-phrases: Contains: SECTION Text of R-pl	ODIUM HYDROXIDE DN <u>15:</u> REGULATORY INFO ccording to EC Directives: C: Corrosive 35: Causes severe burns. 26-37/39-45: In case of contac suitable gloves and eye/face p (show label where possible). Sodium Hydroxide <u>16:</u> OTHER INFORMATI hrases under Section 3	SOLUTION Ems: F-A S-B Transport data applies DRMATION t with eyes, rinse immediately w rotection. In case of accident or NON Revision Information	to the COMPLETE KIT! ith plenty of water and seek me if you feel unwell, seek medica	SOLUTION

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.