

F72082 NaOH solution 1.0M HPCE ,100L##

	Revision Date 09/22/2016	Print Date 03/14/201
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	ANT IDENTIFICATION	
:	Sodium hydroxide solution	
:	00000020410	
:	Laboratory chemicals	
:		
	-	
:		
	(Monday-Finday, 9:00am-5:00pm)	
:	Medical: 1-800-498-5701 or +1-303-389-14	14
:	Transportation (CHEMTREC): 1-800-424-9	300 or +1-703-
	527-3887	
:	(24 hours/day, 7 days/week)	
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CA	ΓΙΟΝ	
	liquia	
:	colourless	
	odourless	
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nce	or mixture	
ling	precautionary statements	
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	: : : : : : : : : : : : : : : : : : :	 MPANY IDENTIFICATION Sodium hydroxide solution 00000020410 Laboratory chemicals Honeywell International Inc. 1953 South Harvey Street Muskegon, MI 49442 1-800-368-0050 +1-231-726-3171 (Monday-Friday, 9:00am-5:00pm) Medical: 1-800-498-5701 or +1-303-389-14 Transportation (CHEMTREC): 1-800-424-9 527-3887 (24 hours/day, 7 days/week)



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sion 1.0	Revision Date 09/22/2016	Print Date 03/14/20
Symbol(s)		
Signal word	: Danger	
Hazard statements	: May be corrosive to metals. Causes severe skin burns and eye da	amage.
Precautionary statements	: Prevention: Keep only in original container. Wash skin thoroughly after handling. Wear protective gloves/protective clo protection.	thing/eye protection/face
	Response: IF SWALLOWED: rinse mouth. Do N IF ON SKIN (or hair): Remove/ Take contaminated clothing. Rinse skin wit IF INHALED: Remove victim to fresh position comfortable for breathing. IF IN EYES: Rinse cautiously with wa Remove contact lenses, if present an rinsing. Immediately call a POISON CENTER Specific treatment (see supplemental this label). Wash contaminated clothing before r Absorb spillage to prevent material data	off immediately all h water/ shower. air and keep at rest in a ater for several minutes. d easy to do. Continue /doctor. first aid instructions on euse.
	Storage: Store locked up. Store in corrosive resistant container	with a resistant inner liner.
	Disposal: Dispose of contents/ container to an plant.	approved waste disposal
Carcinogenicity	present at levels greater than or equal to 0.	1% is identified as a know
or anticipated carcinogen by N		170 IS INCLUENCE AS A KIIOW

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Formula	: HNaO		
Chemical nature	: Mixture		
Chemical r	ame	CAS-No.	Concentration
Water		7732-18-5	96.00 %
Sodium hydroxide		1310-73-2	4.00 %
TION 4. FIRST AID MEASUR	ES		
General advice		to protect himself. Mov contaminated clothing	
Inhalation	: If inhaled, remove	If inhaled, remove to fresh air. Call a physician.	
Skin contact	treatment is nece	Wash off immediately with plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.	
Eye contact		d eye. Rinse thoroughly elids. Call a physician	
Ingestion		, allow water to be drun hysician immediately.	k. Do NOT induce
TION 5. FIREFIGHTING MEA	ASURES		
Suitable extinguishing media	: Water spray Dry powder Foam Carbon dioxide	(CO2)	
Specific hazards during firefighting		ate slippery conditions. If does not burn.	
Special protective equipment for firefighters		exposed skin areas. ined breathing apparatu	us and protective suit.
Further information	· Use extinguishin	ng measures that are a	opropriate to local
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circumstances and the surrounding environment.	SAFETY DATA SHEET	Γ		Honeywell Fluka ^{**}
Version 1.0 Revision Date 09/22/2016 Print Date 03/14/20 circumstances and the surrounding environment. CECTION 6. ACCIDENTAL RELEASE MEASURES Personal precautions : Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Environmental precautions : Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Do not flush into sufface water or sanitary sewer system. Methods for cleaning up : Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Additional advice : Spilling onto the container's outside will make container slippery. EECTION 7. HANDLING AND STORAGE Handling Handling : Wear personal protective equipment. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Advice on protection against fire and explosion : The product itself does not burn. Normal measures for preventive fire protection. Contact with metails liberates hydrogen gas. Storage areas and containers : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from physical damage.	72082 NaOH solution 1.0M HP	CE	,100L##	
circumstances and the surrounding environment.	0000020410			
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areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from physical damage.	Storage			
Advice on common storage : Do not store near acids		:	Keep containers tightly closed in a dry, place.	cool and well-ventilated
Keep away from metals.	Advice on common storage	:	Do not store near acids. Keep away from metals.	



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Protective measures	:	Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.
Engineering measures	:	Use with local exhaust ventilation.
Eye protection	:	Face-shield Safety goggles
Hand protection	:	Impervious gloves Gloves must be inspected prior to use. Replace when worn.
Skin and body protection	:	Protective suit
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures	:	Take off all contaminated clothing immediately. Separate rooms are required for washing, showering and changing clothes. Keep working clothes separately. Wash hands before breaks and at the end of workday. Recommended preventive skin protection

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Upda te	Basis
Sodium hydroxide	1310-73-2	Ceiling : Ceiling Limit Value:	2 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values



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Sodium hydroxide	1310-73-2	Ceil_Tim e: Ceiling Limit Value and Time Period (if specified) :	2 mg/m3	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Sodium hydroxide	1310-73-2	PEL : Permissi ble exposure limit	2 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Sodium hydroxide	1310-73-2	Ceiling : Ceiling Limit Value:	2 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
		PROPERTI	IFS		
CTION 9. PHYSICAL A Physical state Color	: liqu	uid	ES		
Physical state Color	: liqu : col	uid ourless	ES		
Physical state Color Odor	: liqu : col : ode	uid ourless ourless	ES		
Physical state Color Odor pH	: liqu : col : odd : 13	uid ourless ourless 5 - 14	ES		
Physical state Color Odor	: liqu : col : odd : 13 : < 0	uid ourless ourless 5 - 14	ES		
Physical state Color Odor pH Melting point/range	: liqu : col : odd : 13 : < C nge : > 1	uid ourless ourless 5 - 14 9 °C			
Physical state Color Odor pH Melting point/range Boiling point/boiling ran	: liqu : col : odd : 13 : < C nge : > 1 : No	uid ourless ourless 6 - 14 0 °C 00 °C			
Physical state Color Odor pH Melting point/range Boiling point/boiling ran Flash point	: liqu : col : odd : 13 : < C nge : > 1 : No : No	uid ourless ourless - 14 • °C 00 °C te: Not appli	cable		



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Upper explosion limit	: Note: Not applicable	
Vapor pressure	: Note: similar to water	
Density	: ca. 1.04 g/cm3 at 20 °C	
Water solubility	: Note: completely miscible	
Destition accellicitate a	. Note, as data susilable	
Partition coefficient: n- octanol/water	: Note: no data available	
Ignition temperature	: Note: Not applicable	
Auto-ignition temperature	: Note: not auto-flammable	
Decomposition temperature	: Note: No decomposition if used as direct	ed.
Viscosity, dynamic	: Note: no data available	
Viscosity, kinematic	: Note: no data available	
Oxidizing properties	: The substance or mixture is not classified	d as oxidizing.
Molecular weight	: 40 g/mol	
Bulk density	: Note: Not applicable	
Corrosivity	: Note: Corrosive to metals	
CTION 10. STABILITY AND R	EACTIVITY	
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous	: Hazardous polymerisation does not occu	r.
reactions	Exothermic reaction with strong acids. Corrosive in contact with metals	



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Conditions to avoid	: Protect from contamination.	
Incompatible materials to avoid	: Gives off hydrogen by reaction w Exothermic reaction with strong a	
Hazardous decomposition products	: No hazardous decomposition pro	oducts known.
SECTION 11. TOXICOLOGICAL I	NFORMATION	
Acute oral toxicity	: Note: Not classified due to data with insufficient for classification.	which are conclusive although
Acute inhalation toxicity	: Note: Not classified due to data v insufficient for classification.	which are conclusive although
Acute dermal toxicity	: Note: Not classified due to data v insufficient for classification.	which are conclusive although
Skin irritation	: Note: Classification based on An 1272/2008/EC.	nex VI of regulation
Eye irritation	: Note: Classification based on An 1272/2008/EC.	nex VI of regulation
Sensitisation	: Species: Humans Result: Does not cause skin sens	sitisation.
SECTION 12. ECOLOGICAL INFO	PRMATION	
Ecotoxicity effects		
Toxicity to fish	: Note: Not classified due to data with insufficient for classification.	which are conclusive although
Toxicity to daphnia and other	: EC50: 40.4 mg/l	
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aquatic ir	ivertebrates	Exposure time: 48 h Species: Ceriodaphnia (water flea) Test substance: anhydrous substance	9		
Toxicity to	o algae :	Note: Not classified due to data which are conclusive although insufficient for classification.			
Further i	nformation on ecology				
Additiona informatic		The methods for determining biodegra applicable to inorganic substances.	adability are not		
	DISPOSAL CONSIDER		F avirona entel		
Disposal	methods .	Observe all Federal, State, and Local regulations.	Environmental		
SECTION 14.	TRANSPORT INFORM	TION			
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels	: UN 1824 : SODIUM HYDROXIDE SC 8 II 8	DLUTION		
ΙΑΤΑ	UN/ID No. Description of the goo Class Packaging group Hazard Labels Packing instruction (c aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: 8 : II : 8	DLUTION		
IMDG	UN/ID No. Description of the goo Class Packaging group Hazard Labels EmS Number	: UN 1824 ds : SODIUM HYDROXIDE SC : 8 : II : 8 : F-A, S-B	DLUTION		
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Marine pollutant	: no	
SECTION 15. REGULATORY INF	ORMATION	
Inventories		
US. Toxic Substances Control Act	: On TSCA Inventory	
Australia. Industrial Chemical (Notification and Assessment) Act	: On the inventory, or in compliance with t	the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	: All components of this product are on the	e Canadian DSL
Japan. Kashin-Hou Law List	: On the inventory, or in compliance with t	the inventory
Korea. Toxic Chemical Control Law (TCCL) List	: On the inventory, or in compliance with t	the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	: On the inventory, or in compliance with t	he inventory
China. Inventory of Existing Chemical Substances	: On the inventory, or in compliance with t	the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the inventory, or in compliance with t	he inventory
National regulatory informa	tion	
US. EPA CERCLA Hazardous Substances (40 CFR 302)	: The following component(s) of this produce release reporting under 40 CFR 302 when Reportable Quantity (RQ):	
	Reportable quantity: 1000 lbs: Sodium hydroxide131	10-73-2
SARA 302 Components	: No chemicals in this material are subject	to the reporting



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SARA 313 Components	requirements of SARA Title III, Section 302. : This material does not contain any chemical components v	vith
	known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
SARA 311/312 Hazards	Acute Health Hazard	
California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
Massachusetts RTK	: Sodium hydroxide 1310-73-2	
New Jersey RTK	: Sodium hydroxide 1310-73-2	
Pennsylvania RTK	: Sodium hydroxide 1310-73-2	
ECTION 16. OTHER INFORM	-	
Health hazard	HMIS III NFPA : 3* 3	

	HMIS III	NFPA
Health hazard	: 3*	3
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	1

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.



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Changes since the last version are highlighted in the margin. This version replaces all previous versions. Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

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