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HI 38058/81 pH Wide Range Indicator

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 38058-81 pH Wide Range Indicator

Application: Determination of pH in Water Samples

Company Information (USA):

Technical Service Contact Information:

USA Emergency Contact Information: International Emergency Contact Information: E-mail Address: Additional Product Codes: HI 3881-5

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

Highly Flammable.

SECTION 3:	СОМ	POSITION AND COMPONENT INFORMATION		
Component:	Ethyl Ald	cohol		
EC-No.:	200-578	-6		
CAS-No.:	64-17-5			
Hazard:	F			
Phrases:	R: 11			
Content:	> 20% -	< 30%		
SECTION 4:	FIRST	T AID MEASURES		
After Inhalatio	n:	Remove to fresh air.		
After Skin Contact:		Wash affected area with plenty of water. Remove contaminated clothing.		
After Eye Contact:		Rinse out with plenty of water for at least 10 minutes. Obtain medical attention.		
After Swallowing:		Immediately make victim drink plenty of water. Summon doctor.		
General Information:		Not available		

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Foam, Dry Powder, Carbon Dioxide

Special Risks:

Combustible. Vapors heavier than air. Forms explosive mixtures with air at ambient temperatures. Keep away from sources of ignition.

Special Protective Equipment:

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

Additional Information:

Cool container with spray water from a save distance. Take measures to prevent electrostatic charging.



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

Personal Precautions:

Avoid substance contact. Do not inhale vapors. 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.

SECTION 7: HANDLING AND STORAGE

Handling:

Storage:

Takes measures to prevent electrostatic charging. Keep away from sources of ignition. Do not inhale substance. Avoid generation of vapors/aerosols. Tightly closed. In a well ventilated place. Keep away from sources of ignition and heat. Store at room temperature (+15 to +25 $^{\circ}$ C recommended). Protect from light and moisture.

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

Туре	Value	Source	Туре	Value	Source
Ethanol					
TWA (8hr)	1907 mg/m³	Belgium	TWA (8hr)	1900 mg/m³	Canada (Ontario)
TWA (8hr)	1880 mg/m³	Canada (Quebec)	TWA (8hr)	1900 mg/m³	France
TWA (8hr)	960 mg/m³	Germany	TWA (8hr)	1900 mg/m³	Greece
TWA (8hr)	1900 mg/m³	Hungary	TWA (8hr)	260 mg/m³	Netherlands
TWA (8hr)	1900 mg/m³	Poland	TWA (8hr)	1000 ppm	Portugal
TWA (8hr)	1900 mg/m³	Romania	TWA (8hr)	1910 mg/m³	Spain
TWA (8hr)	1920 mg/m³	UK	TWA (8hr)	1000 ppm	USA (ACGIH)
TWA (8hr)	1000 ppm	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.

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

Industrial Hygiene:

Change contaminated clothing. Apply skin-protective barrier cream. Wash hands after working with substance.

SECTION 9:	PHYSICAL/CHEMICAL PROPERTIES				
Appearance:	Dark colored liquid	Odor:	Alcohol-like odor	Density at 20° C: 0.97 g/cm3	
Melting Point:	ND	Boiling Point:	ND	Solubility: Soluble	
pH at 20° C:	ND	Explosion Limit:	ND	Flash Point: ND	
Thermal Decomp	.: NA				



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<u>SECTION 10:</u> STABILITY AND REACTIVITY

Conditions to be Avoided:

Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Flammable. Explosive with air in a vaporous/gaseous state.

Hazardous Decomposition Products:

No information available.

Substances to be Avoided:

Risk of ignition or formation of inflammable gases or vapors with: alkali metals, alkaline earth metals, alkali oxides, strong oxidizing agents, halogen-halogen compounds, CrO3, chromyl chloride, ethylene oxide, fluorine, perchlorates, potassium permanganate/ SULFURIC acid, perchloric acid, permanganic acid, phosphorus oxides, nitric acid, nitrogen dioxide, uranium hexafluoride, hydrogen peroxide



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<u>SECTION 11:</u> TOXICOLOGICAL INFORMATION

Product Toxicity

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

Potential Health Effects:

Inhalation: Skin Contact:	Slight mucosal irritations. Risk of absorption. After long-term exposure to the chemical: dermatitis.
Eye Contact:	Slight irritations.
Ingestion:	Nausea, vomiting, diarrhoea. Systemic effects: euphoria. After absorption: salivation dizziness, inebriation, narcosis, respiratory paralysis.
Further Data:	The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Acute Toxicity:

Chronic Toxicity: Not Available

Ethanol

LD50: Oral - Rat - 7060 mg/kg

Additional Data:

Additional Data:	
Additional Data: APPLICABLE TO MAIN COMPONENT: The following applies to Ethyl alcohol – as the pure substance: Specific symptoms in animal studies: Eye irritation test (rabbit): No irritation (OECD 405). Skin irritation test (rabbit): No irritation (OECD 404). Subacute to chronic toxicity Sensitization: Sensitisation test (Magnusson and Kligman): negative. (IUCLID) Bacterial mutagenicity: Salmonella typhimurium: negative. (in vitro) (National Toxicology Program) Further toxicological information After inhalation of vapours: slight mucosal irritations. Risk of absorption. After skin contact: After long-term exposure to the chemical: dermatitis. After swallowing of large amounts: nausea and vomiting. Systemic effects: euphoria. After swallowing of large quantities: dizziness, inebriation, narcosis, respiratory APPLICABLE TO MAIN COMPONENT: The following applies to Ethylene glycol – as the pure substance: Acute toxicity LD50 (oral, rat): =2000 mg/kg (IUCLID). LDLo (oral, human): 786 mg/kg (RTECS). Specific symptoms in animal studies: Eye irritation test (rabbit): Slight irritations (IUCLID). Subacute to chronic toxicity Subacute to chronic toxicity Subacute to chronic toxicity Subacute to chronic toxicity Sensitization: Patch test (humans): negative. (IUCLID).	
Systemic effects: euphoria.	
LD50 (oral, rat): >2000 mg/kg (IUCLID).	
LDLo (oral, human): 786 mg/kg (RTECS).	
Bacterial mutagenicity: Ames test: negative. (in vitro) (IUCLID)	
Mutagenicity (mammal cell test): negative. (in vitro) (IUCLID) Mutagenicity (mammal cell test): chromosome aberration negative. (in vitro) (National Toxicology Program)	
Further toxicological information	
After skin contact: Slight irritations. Danger of skin absorption.	
After eye contact: Slight irritations.	
After swallowing: Nausea, vomiting, agitation, CNS disorders.	
Systemic effects: After a latency period: tiredness, ataxia (impaired locomotor coordination), unconsciousness. Damage of: kidne	eys.
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Not subject to transport regulations

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SECTION 12: ECOLOGICAL INFORMA	TION	
Quantitative data on the ecotoxicity of this product	is not available.	
APPLICABLE TO PARTIAL COMPONENT:		
The following applies to Ethyl alcohol - as the pure	e substance:	
Abiotic degradation:		
Rapid degradation. (air)		
Biologic degradation: Biodegradation: 94 % (OECD	D 301 E);	
Readily biodegradable.		
Behavior in environmental compartments:		
Distribution: log Pow: -0.31 (experimental) (Lit.); No bioaccumulation is to be expected (log Pow <1))	
Ecotoxic effects:).	
Biological effects:		
	organisms. When used properly, no impairments in the function of	waste- water-treatment
plants are to be expected.	3	
Fish toxicity: L.idus LC50: 8140 mg/L /48 h (IUCLIE	D);	
Daphnia toxicity: Daphnia magna EC50: 9268-1422	21 mg/L /48 h (IUCLID);	
Maximum permissible toxic concentration:		
	d (Lit.); Bacterial toxicity: Ps.putida EC5: 6500 mg/L /16 h (IUCLID	ו); Protozoa: E.sulcatum
EC5: 65 mg/L /72 h (Lit.).		
Further ecologic data:		
BOD5: 0.93-1.67 g/g (Lit.); COD: 1.99 g/g (IUCLID) (IUCLID); COD 90 % from TOD (Lit.);), TOD. 2.10 g/g (Lit.), BOD 74 % ITOM TOD /5 d	
APPLICABLE TO PARTIAL COMPONENT: The following applies to Ethylene glycol – as the pu		
Biologic degradation:	ure substance.	
Biodegradation: 83-96 % /14 d (OECD 301 C).		
Readily biodegradable.		
Behavior in environmental compartments:		
Distribution: log Pow: -1.36 (experimental) (Lit.).		
No bioaccumulation is to be expected (log Pow <1)).	
Ecotoxic effects:		
Biological effects:		
Fish toxicity: Onchorhynchus mykiss LC50: >18500		
Daphnia toxicity: Daphnia magna EC50: 74000 mg Bacterial toxicity: Ps.putida EC50: >10000 mg/L /10		
Maximum permissible toxic concentration:	оп (ш.).	
Algeal toxicity: Sc.quadricauda IC5: >10000 mg/L /	/7 d (Lit)	
Protozoa: E.sulcatum EC5: >10000 mg/L /72 h (Lit		
Further ecologic data:		
Degradability:		
BOD5: 0.78 g/g (IUCLID).		
COD: 1.19 g/g (IUCLID).		
TOD: 1.29 g/g (IUCLID).		
BOD 60 % from TOD /5 d (IUCLID).		
<i>Further Data:</i> No ecological problems are to be	e expected when the product is handled and used with due care ar	nd attention.
SECTION 13: DISPOSAL CONSIDERAT	TIONS	
Waste Disposal: Chemical residues are general	ly classified as special waste and thus covered by local regulation	s. Contact local
	ies for advice. Handle contaminated packaging in the same way a	
SECTION 14: TRANSPORTATION INFO	ORMATION	
Land:	Sea: Air:	
Not autient to transport regulations	Net subject to transmit to substance	

Not subject to transport regulations

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SECTION 15: REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol: F: Highly Flammable

R-phrases: 11: Highly flammable.

S-phrases: 7-16-25: Keep container tightly closed. Keep away from sources of ignition - No smoking. Avoid contact with eyes.

SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3	Revision Information		Legend		
11: Highly flammable.	Revision Date:	2009-06-10	NA: Not Applicable		
	Supersedes edition of:	2008-12-01	ND: Not Determined		
	Reason for revision:	29 CFR 1910.1200 and SOR/88-66 Compliance			
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.					