

# SAFETY DATA SHEET

Revision Date 26-Jan-2024 Version 2.9 Issue Date 21-May-2021 Page 1/14 **1. IDENTIFICATION** Product identifier S11M007 pH 10.012 IUPAC pH Standard **Product Name** Other means of identification Product Code(s) S11M007 NA Safety data sheet number Recommended use of the chemical and restrictions on use **Recommended Use** Analytical reagent. Standard solution. Uses advised against Consumer use. For Laboratory Use Only. **Restrictions on use** Details of the supplier of the safety data sheet **Manufacturer Address** 

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

# Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

# 2. HAZARDS IDENTIFICATION

#### Classification

#### **Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Hazards not otherwise classified (HNOC) Not applicable

# Label elements

Signal word None

#### **Hazard statements**

The product contains no substances which at their given concentration, are considered to be hazardous to health

# Other Hazards Known

None

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

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Substance Not applicable

<u>Mixture</u>

Chemical	Family
Chemical	nature

Mixture. aqueous solution.

# Percent ranges are used where confidential product information is applicable.

Chemical name		CAS No	Percent Range	HMRIC #	
Didecyldimethy	2390-68-3	<0.01%	-		
Eth	yl alcohol	64-17-5	<0.01%	-	
	4. FIRST AID MEASUR	ES			
Description of first aid measures					
General advice	No hazards which require special first a nature of the injury.	id measures. Use first a	aid treatment ac	cording to th	
Inhalation	Remove to fresh air.	Remove to fresh air.			
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.				
Skin contact	Wash skin with soap and water.				
Ingestion	Clean mouth with water and drink afterwards plenty of water.				
Most important symptoms and eff	ects, both acute and delayed				
Symptoms	See Section 11 for additional Toxicological Information.				
Indication of any immediate medio	cal attention and special treatment need	ed			
Note to physicians	Treat symptomatically.				
	5. FIRE-FIGHTING MEASU	JRES			
Suitable Extinguishing Media	Use extinguishing measures that are ap surrounding environment.	opropriate to local circur	nstances and th	ie	
Un and also Fratin maintain a Martin	Continue line of water environment fighting fire many he in officient				

Unsuitable Extinguishing MediaCaution: Use of water spray when fighting fire may be inefficient.Specific hazards arising from theNo information available.

chemical

Hazardous combustion products No information available.

Special protective equipment for<br/>fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout gear.<br/>Use personal protection equipment.

# 6. ACCIDENTAL RELEASE MEASURES

U.S. Notice Only persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

Personal precautions, protective equipment and emergency procedures				
Personal precautions	Ensure adequate ventilation.			
Environmental precautions				
Environmental precautions	See Section 12 for additional ecological information.			
Methods and material for containment and cleaning up				
Methods for containment	Prevent further leakage or spillage if safe to do so.			
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.			
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.			
Reference to other sections	See section 8 for more information. See section 13 for more information.			

# 7. HANDLING AND STORAGE

Precautions for safe handling	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, includi	ing any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Flammability class	Not applicable

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
CAS#: 64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>
		(vacated) TWA: 1900 mg/m <sup>3</sup>	_

#### Appropriate engineering controls Engineering Controls

Showers
 Eyewash stations
 Ventilation systems.

#### Individual protection measures, such as personal protective equipment Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

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Hand Protection	Wear suitable gloves.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	No special protective equipment required.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.
Thermal hazards	None under normal processing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution Odorless	Liquid		Color Odor threshold	colorless No data ava	ailable
Property_			<u>Values</u>			Remarks • Method
Molecular weight	:		No data availal	ble		
рН			10.012			@ 25 °C
Melting point / fre	ezing point		No data availal	ble		
Initial boiling poi	nt and boiling rang	е	100 °C / 21	2 °F		
Evaporation rate			No data availal	ble		
Vapor pressure			No data availal	ble		
Relative vapor de	ensity		No data availa	able		
Specific gravity -	VALUE 1		1.0			
Partition coefficie	ent		No data availal	ble		
Soil Organic Carl Coefficient	bon-Water Partitior	1	No data availal	ble		
Autoignition tem	perature		No data availal	ble		
Decomposition te	emperature		No data availal	ble		
Dynamic viscosit	ÿ		No data availal	ble		
Kinematic viscos	ity		No data availal	ble		
Solubility(ies)						

# Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
None reported	No information available	No data available	No information available

**Other information** 

**Metal Corrosivity** 

Steel Corrosion Rate	No data available
Aluminum Corrosion Rate	No data available

# Volatile Organic Compounds (VOC) Content

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Didecyldimethylammonium bromide	2390-68-3	No data available	-
Ethyl alcohol	64-17-5	No data available	Х

### **Explosive properties**

Upper explosion limit Lower explosion limit	No data available No data available
Flammable properties	
Flash point	No data available
Flammability Limit in Air Upper flammability limit: Lower flammability limit:	No data available No data available
Oxidizing properties	No data available.
Bulk density	No data available

# **10. STABILITY AND REACTIVITY**

Reactivity Not applicable.

<u>Chemical stability</u> Stable under normal conditions.

### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

# Possibility of hazardous reactions

None under normal processing.

# Hazardous polymerization

Hazardous polymerization does not occur.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

# Hazardous decomposition products

No information available.

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

#### **Product Information**

Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Symptoms	No information available.

# Acute toxicity

Based on available data, the classification criteria are not met

#### Mixture

No data available.

# Ingredient Acute Toxicity Data

Test data reported below.

# Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Didecyldimethylamm onium bromide (<0.01%) CAS#: 2390-68-3	Rat LD₅₀	435 mg/kg	None reported	None reported	Vendor SDS

# **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

# Acute Toxicity Estimations (ATE)

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	No information available mg/kg
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

# Skin corrosion/irritation

Based on available data, the classification criteria are not met.

# Mixture

No data available.

# Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Standard Draize Test	Rabbit	20 mg	24 hours	Skin irritant	RTECS

### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

### Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Rinse Test	Rabbit	100 mg	4 seconds	Eye irritant	RTECS

### Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

#### Ingredient Sensitization Data

Test data reported below.

# **Skin Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and sources for data
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Patch test	Human	Not confirmed to be a skin sensitizer	HSDB

# STOT - single exposure

Based on available data, the classification criteria are not met.

# Mixture

No data available.

# Ingredient Specific Target Organ Toxicity Single Exposure Data

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Human TD∟₀	500 mg/kg	None reported	Behavioral Depressed respiration	RTECS

# Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ethyl alcohol (<0.01%)	Human TC⊾₀	30 mg/L	4 hours	Peripheral Nerve and Sensation	RTECS
CAS#: 64-17-5	1010			Recording from afferent nerve	

# STOT - repeated exposure

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

#### **Ingredient Specific Target Organ Toxicity Repeat Exposure Data** Test data reported below.

Test data reported below.

# **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Man TD∟₀	4623000 mg/kg	4380 days	Brain and Coverings Other degenerative changes	RTECS

# Carcinogenicity

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

# Ingredient Carcinogenicity Data

Test data reported below.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Didecyldimethylammonium	2390-68-3	-	-	-	-
bromide					
Ethyl alcohol	64-17-5	A3	Group 1	Known	Х

# Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

# **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Etherit also had				Disad	
Ethyl alcohol	Mouse	320 mg/kg	50 weeks	Blood	RTECS
(<0.01%)				Lymphoma (including Hodgkin's	
CAS#: 64-17-5				disease)	
				Liver	
				Tumors	

# Germ cell mutagenicity

Based on available data, the classification criteria are not met.

# Mixture invitro Data

No data available.

# Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Sister chromatid exchange	Human lymphocyte	500 mg/L	72 hours	Positive test result for mutagenicity	RTECS

# Mixture invivo Data

No data available.

#### Substance invivo Data

Test data reported below.

# **Oral Exposure Route**

Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethyl alcohol (<0.01%) CAS#: 64-17-5	Micronucleus test	Human	817600 mg/kg	6 years	Positive test result for mutagenicity	RTECS

# Reproductive toxicity

Based on available data, the classification criteria are not met.

# Mixture

No data available.

# Ingredient Reproductive Toxicity Data

Test data reported below.

# **Oral Exposure Route**

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Ethyl alcohol	Woman	4676280	100 days	Effects on Newborn	RTECS
(<0.01%)	TDLo	mg/kg		Delayed effects	
CAS#: 64-17-5				Specific Developmental	
				Abnormalities	
				Craniofacial (including nose and	
				tongue)	

# Aspiration hazard

Based on available data, the classification criteria are not met.

# **12. ECOLOGICAL INFORMATION**

Ecotoxicity	Based on available data, the classification criteria are not met.
Unknown aquatic toxicity	0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.
<u>Mixture</u>	
Aquatic Acute Toxicity No data available.	
Aquatic Chronic Toxicity No data available.	

# Substance

# **Aquatic Acute Toxicity**

Test data reported below.

# Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Didecyldimethylamm onium bromide (<0.01%) CAS#: 2390-68-3	96 hours	None reported	LC <sub>50</sub>	1.100 mg/L	ECOSARS

# Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Didecyldimethylamm onium bromide (<0.01%) CAS#: 2390-68-3	48 Hours	None reported	LC <sub>50</sub>	0.799 mg/L	ECOSARS

# Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Didecyldimethylamm onium bromide (<0.01%) CAS#: 2390-68-3	96 hours	None reported	EC50	1.641 mg/L	ECOSARS

# Aquatic Chronic Toxicity

No data available.

# Persistence and degradability

**Mixture** No data available.

<u>Bioaccumulation</u> There is no data for this product **Mixture** No data available.

# Partition coefficient

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient

No data available

No data available

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

products	environmental legislation.
Contaminated packaging	Do not reuse empty containers.
US EPA Waste Number	Not applicable

# **14. TRANSPORT INFORMATION**

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated

# Additional information

# 15. REGULATORY INFORMATION

	-
National Inventories	
TSCA	Complies
DSL/NDSL	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

# International Inventories

EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIOC	Complies

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**TCSI** - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

# **US Federal Regulations**

# SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

No No

No

SARA 311/312 Hazard Categories	
Acute health hazard	
Chronic Health Hazard	

Fire hazard

Sudden release of pressure hazard	No
Reactive Hazard	No

# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# US State Regulations

# California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Ethyl alcohol (CAS #: 64-17-5)	Carcinogen
	Developmental

WARNING: This product can expose you to chemicals including Ethyl alcohol, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information, go to <u>http://www.P65Warnings.ca.gov</u>

**IMERC:** Not applicable

# U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethyl alcohol	Х	X	Х
64-17-5			

# U.S. EPA Label Information

Chemical name	FIFRA	FDA
Ethyl alcohol	180.0910	21 CFR 184.1293

# **16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

Special Comments
None

#### **Additional information**

#### Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable Substance List Classifications	Global Automotive Declarable Substance List Thersholds
Didecyldimethylammonium bromide	Declarable Substance (LR)	None reported
2390-68-3	Prohibited Substance (LR)	

# **NFPA and HMIS Classifications**

	NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and chemical properties -
ſ	HMIS	Health hazards - 0	Flammability - 0	Physical hazards - 0	Personal protection -
			-	-	X
					- 1

# Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH ATSDR CCRIS CDC CEPA CICAD ECHA EEA EPA ERMA ECOSARS FDA GESTIS	ACGIH (American Conference of Governmental Industrial Hygienists) ATSDR (Agency for Toxic Substances and Disease Registry) CCRIS (Chemical Carcinogenesis Research Information System) CDC (Center for Disease Control) CEPA (Canadian Environmental Protection Agency) CICAD (Concise International Chemical Assessment Documents) ECHA (The European Chemicals Agency) EEA (European Environment Agency) EPA (Environmental Protection Agency) ERMA (New Zealands Environmental Risk Management Authority) Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite <sup>™</sup> FDA (Food & Drug Administration) GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)
HSDB	HSDB (Hazardous Substances Data Bank)
INERIS	INERIS (The National Industrial Environment and Risks Institute)
IPCS INCHEM	IPCS INCHEM (International Programme on Chemical Safety)
IUCLID	IUCLID (The International Uniform Chemical Information Database)
NITE	Japan National Institute of Technology and Evaluation (NITE)
NIH	NIH (National Institutes of Health)
NIOSH	NIOSH (National Institute for Occupational Safety and Health)
LOLI	LOLI (List of Lists - An International Chemical Regulatory Database)
NDF	no data
NICNAS	Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH IDLH	Immediately Dangerous to Life or Health
OSHA	OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEEN	PEEN (Pan European Ecological Network)
RTECS	RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS	SIDS (Screening Information Dataset) for High Volume Chemicals
SYKE	The Finnish Environment Institute (SYKE)
USDA	USDA (United States Department of Agriculture)
USDC	USDC (United States Department of Commerce)
WHO	WHO (World Health Organization)

# Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable Concentration	Ceiling	Ceiling Limit Value
Х	Listed	Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.
SKN* RSP+ C	Skin designation Respiratory sensitization Carcinogen	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant

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Μ	mutagen	
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<b>Revision Note</b>		None

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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End of Safety Data Sheet