

SAFETY DATA SHEET

Issue Date 07-Oct-2018	Revision Date 08-Oct-2018	Version 1.2	
	1. Identification		
Product identifier			
Product Name	EC Medium with MUG		
Other means of identification			
Product Code(s)	2471515 (U.S. Product Code 2471515)		
Recommended use of the chemical and restrictions on use			
Recommended Use	Microbiological testing.		
Details of the supplier of the safe Manufacturer Address Hach Company P.O.Box 389 Love Emergency telephone number Emergency Telephone	<u>ety data sheet</u> eland, CO 80539 USA +1(970) 669-3050 +1(303) 623-5716 - 24 Hour Service +1(515).	232-2533 - 8am - 4pm CST	

2. Hazards identification

Classification

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

Label elements

Hazard statements

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

Other Hazards Known

Not applicable

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

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

4. First aid measures		
Description of first aid measures		
Inhalation	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 effects, both acute and delayed		
Symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

5. Fire-fighting r	measures
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Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	No information available.
Hazardous combustion products	No information available.
Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.	
Special protective actions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

 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

Prevention of secondary hazards

Pick up and transfer to properly labeled containers.

Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage		
Precautions for safe handling	1	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.	
Conditions for safe storage, i	including any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.	
	8. Exposure controls/personal protection	
Control parameters		
Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	
Appropriate engineering con	trols	
Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	No special protective equipment required.	

Skin and body protection No special protective equipment required.

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.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution Not determined	Liquid		Color Odor threshold	brown No data available
Property_			Values		Remarks • Method
Molecular weight			No data availabl	le	
рН			7.0		
Melting point/free	zing point		No data availabl	le	
Boiling point / bo	iling range		100 °C / 212 °	°F	

No data available
No data available
No data available
1.005
Not applicable
Not applicable
No data available

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	Solubility	Solubility Temperature
Acid	Precipitate may form	No data available	25 °C / 77 °F

Other Information

Metal Corrosivity

Steel Corrosion Rate Aluminum Corrosion Rate Volatile Organic Compounds (VOC)	Content	No data available No data available
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 Particle Size	No information available	No data available
Particle Size Distribution	No information available	

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous Decomposition Products None known based on information supplied.

11. Toxicological information

Information on Likely Routes of Exposure

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Acute toxicity

Aggravated Medical ConditionsNone known.Toxicologically synergisticNone known.productsToxicokinetics, metabolism andNo information available.distributionNo

Product Acute Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

No data available No data available No data available No data available No data available

Numerical measures of toxicity

Unknown acute toxicity 0.01 % of the mixture consists of ingredient(s) of unknown toxicity
0.01 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
0.01 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
0.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
0.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
0.01 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

Acute Toxicity Estimations (ATE)

ATEmix (oral)	No information available
ATEmix (dermal)	No information available

ATEmix (inhalation-dust/mist) ATEmix (inhalation-vapor) ATEmix (inhalation-gas)	No information available No information available No information available		
Ingredient Acute Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Rou	ute	If available, see data below If available, see data below If available, see data below	
Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route		If available, see data below If available, see data below	
Product Specific Target Organ Toxi	city Single Exposure Dat	· 2	
Oral Exposure Route	City Single Exposure Dat	No data available	
Dermal Exposure Route Inhalation (Dust/Mist) Exposure Roo	uto	No data available No data available	
Inhalation (Vapor) Exposure Route	ute	No data available	
Inhalation (Gas) Exposure Route		No data available	
Ingredient Specific Target Organ To	oxicity Single Exposure D	Data	
Oral Exposure Route Dermal Exposure Route		If available, see data below If available, see data below	
Inhalation (Dust/Mist) Exposure Rol	ute	If available, see data below	
Inhalation (Vapor) Exposure Route		If available, see data below	
Inhalation (Gas) Exposure Route		If available, see data below	
Aspiration toxicity No data available			
Product Skin Corrosion/Irritation Da No data available.	ata		
Ingredient Skin Corrosion/Irritation If available, see data below	<u>Data</u>		
Product Serious Eye Damage/Eye Irritation Data No data available.			
Ingredient Eye Damage/Eye Irritatio If available, see data below	<u>n Data</u>		
Sensitization Information			
Product Sensitization Data			
Skin Sensitization Exposure Route Respiratory Sensitization Exposure	Route	No data available. No data available.	
Ingredient Sensitization Data Skin Sensitization Exposure Route		If available, see data below.	
Respiratory Sensitization Exposure	Route	If available, see data below.	
Chronic Toxicity Information			
Product Specific Target Organ Toxi	city Repeat Dose Data		
Oral Exposure Route Dermal Exposure Route		No data available. No data available.	
Inhalation (Dust/Mist) Exposure Ro	ute	No data available.	
Inhalation (Vapor) Exposure Route		No data available. No data available.	
Inhalation (Gas) Exposure Route		INU UALA AVAIIADIE.	
Ingredient Specific Target Organ To	oxicity Repeat Exposure		
Oral Exposure Route Dermal Exposure Route		If available, see data below If available, see data below	
Inhalation (Dust/Mist) Exposure Ro	ute	If available, see data below	

Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Product Carcinogenicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Carcinogenicity Data

Legend

If available, see data below If available, see data below

No data available No data available No data available No data available No data available

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 (Occupational Safety and Health Administration of the US Department of		Does not apply
Labor)	·····	
Oral Exposure Route	lf available, see data be	elow
Dermal Exposure Route	If available, see data be	elow
Inhalation (Dust/Mist) Exposure Route	If available, see data be	elow
Inhalation (Vapor) Exposure Route	lf available, see data be	elow
Inhalation (Gas) Exposure Route	If available, see data be	elow
Product Germ Cell Mutagenicity invitro Data		
No data available.		
Ingredient Germ Cell Mutagenicity invitro Data		
If available, see data below		
Product Germ Cell Mutagenicity invivo Data		
Oral Exposure Route	No data available	
Dermal Exposure Route	No data available	
Inhalation (Dust/Mist) Exposure Route	No data available	
Inhalation (Vapor) Exposure Route	No data available	
Inhalation (Gas) Exposure Route	No data available	
Ingredient Germ Cell Mutagenicity invivo Data		
Oral Exposure Route	If available, see data be	
Dermal Exposure Route	lf available, see data be	
Inhalation (Dust/Mist) Exposure Route	If available, see data be	
Inhalation (Vapor) Exposure Route	If available, see data be	
Inhalation (Gas) Exposure Route	If available, see data be	elow
Product Reproductive Toxicity Data		
Oral Exposure Route	No data available	
Dermal Exposure Route	No data available	
Inhalation (Dust/Mist) Exposure Route	No data available	
Inhalation (Vapor) Exposure Route	No data available	
Inhalation (Gas) Exposure Route	No data available	
Ingredient Reproductive Toxicity Data		
Oral Exposure Route	If available, see data be	
Dermal Exposure Route	If available, see data be	
Inhalation (Dust/Mist) Exposure Route	If available, see data be	
Inhalation (Vapor) Exposure Route	If available, see data be	
Inhalation (Gas) Exposure Route	If available, see data be	elow

12. Ecological information

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Ecotoxicity

<u>Product Ecological Data</u> Aquatic toxicity		
Fish Crustacea Algae	No data available No data available No data available	
Ingredient Ecological Data		
Aquatic toxicity		
Fish Crustacea Algae	If available, see ingre If available, see ingre If available, see ingre	edient data below
Other Information		
Persistence and degradability		
Product Biodegradability Data No data available.		
Ingredient Biodegradability Data		
Bioaccumulation		
Product Bioaccumulation Data No data available.		
Partition Coefficient (n-octanol/water) Ingredient Bioaccumulation Data	Not applicable	
Mobility		
Soil Organic Carbon-Water Partition Coe Water solubility	fficient Not applicable	
Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

Other adverse effects No information available.

13. Disposal considerations			
Waste treatment methods			
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging Do not reuse empty containers.			
14. Transportation information			
<u>MEX</u>	Not regulated		

TDG	Not regulated
U.S. DOT	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS	Complies. Complies. Complies. Complies. Complies. Complies. Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Complies.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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

AICS - Australian Inventory of Chemical Substances

16. Other information				
NFPA	Health hazards 0	Flammability 0	Instability 0	Physical and chemical properties -
HMIS	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWĂ	TWA (time-weighted average)		STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	SKN*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

Prepared By	Hach Product Compliance Department.
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Revision Note	None

Revision Note NOM-018-STPS-2015

The information is believed to be accurate, but it is not exhaustive and must be used only as guidance. It is based on the current state of knowledge of the chemical substance or mixture and is applicable to the appropriate safety precautions for the product.

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.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet