

SAFETY DATA SHEET

Issuing Date 21-Jan-2016

Revision Date 21-Jan-2016

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Name
Product Number
Synonyms

Total Phenolics (4-AAP) 589 None

Recommended use of the ch	emical and restrictions on use
Recommended Use	Laboratory use only
Uses advised against	No information available

Details of the supplier of the safety data sheetSupplierERA a Waters CompanySupplier Address16341 Table Mountain Parkway, Golden, CO 80403 USANon-Emergency Telephone Number+1-303-431-8454Supplier Emailsdsinfo@eraqc.com

Emergency telephone number Company Emergency Phone Number

In case of EMERGENCY call CHEMTREC Day or Night Within USA and Canada: 800-424-9300 International Call Collect: +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Specific target organ toxicity (single exposure)	Category 1
Flammable Liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview			
Signal word	Danger		
Hazard Statements			
Toxic if inhaled			
Causes damage to organs			
Highly flammable liquid and vapor			

Appearance Dark yellow	Physical state Liquid	Odor Alcoho
Precautionary Statements - Prevention	on	
Wash face, hands and any exposed ski		
Do not eat, drink or smoke when using		
Wear protective gloves/protective clothi		
Use only outdoors or in a well-ventilated		
Do not breathe dust/fume/gas/mist/vapo	ors/spray	
Keep away from heat/sparks/open flam	es/hot surfaces No smoking	
Keep container tightly closed	·	
Ground/bond container and receiving e	quipment	
Use explosion-proof electrical/ ventilatir		
Use only non-sparking tools		
Take precautionary measures against s	static discharge	
Keep cool		
Precautionary Statements - Respons	5e	
Specific treatment (see .? on this label)		
IF exposed: Call a POISON CENTER o		
Specific treatment (see supplemental fin		
Skin		
Call a POISON CENTER or doctor/phys	sician if you feel unwell	
Wash contaminated clothing before reu		
	immediately all contaminated clothing. Rinse skin with water/shower	
Inhalation		
	r and keep at rest in a position comfortable for breathing	
Call a POISON CENTER or doctor/phys		
Ingestion		
IF SWALLOWED: Immediately call a Po	OISON CENTER or doctor/physician	
Rinse mouth		
Fire		
In case of fire: Use CO2, dry chemical,	or foam for extinction	
Precautionary Statements - Storage		
Store locked up		
Store in a well-ventilated place. Keep co	ontainer tightly closed	
Precautionary Statements - Disposal		
Dispose of contents/container to an app		
Hazards not otherwise classified (HN	<u>100)</u>	
Not applicable		
Unknown Toxicity		
0 % of the mixture consists of ingredien	nt(s) of unknown toxicity	
Other information		
PROLONGED OR REPEATED CONTA	ACT MAY DRY SKIN AND CAUSE IRRITATION	
nteractions with Other Chemicals		

Use of alcoholic beverages may enhance toxic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Note: only the components contributing to the product's GHS hazard classification are listed in this section.

Chemical name	CAS No	Weight-%
Methanol	67-56-1	99.9976

4. FIRST AID MEASURES

First aid measures

Conorol Adviso	Chow this sofaty data short to the destar in attendance. Immediate medical attention is		
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.		
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical		
e	attention/advice. Remove contact lenses, if present and easy to do. Continue rinsing.		
Skin contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin.		
	Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel		
	should) give oxygen.		
Ingestion	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give		
	anything by mouth to an unconscious person. Call a physician or poison control center immediately.		
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to		
	protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use		
	barrier to give mouth-to-mouth resuscitation.		
Most important symptoms and effe	cts, both acute and delayed		
Most Important Comptons and	Couching and/ an what ing Difficulty in breathing		
Most Important Symptoms and Effects	Coughing and/ or wheezing. Difficulty in breathing.		
	al attention and special treatment needed		
Indication of any immediate medical attention and special treatment needed			
Notes to Physician	Treat symptomatically.		

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable Extinguishing Media

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Vapors can form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Uniform Fire Code

Highly Toxic: Liquid

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Full encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Stop leak if you can do it without risk.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.
Environmental precautions	
Environmental precautions Methods and material for containme	Prevent entry into waterways, sewers, basements or confined areas. ent and cleaning up
Methods for containment	A vapor suppressing foam may be used to reduce vapors. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling	
Handling Conditions for safe storage, includ	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist. Use only with adequate ventilation and in closed systems. Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.
Storage Incompatible Products	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from moisture. Store away from other materials. Store locked up. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methanol	STEL: 250 ppm	TWA: 200 ppm	IDLH: 6000 ppm
67-56-1	TWA: 200 ppm	TWA: 260 mg/m ³	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 260 mg/m ³
		(vacated) TWA: 260 mg/m ³	STEL: 250 ppm
		(vacated) STEL: 250 ppm	STEL: 325 mg/m ³
		(vacated) STEL: 325 mg/m ³	_
		(vacated) S*	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems uch as personal protective equipment
<u>mannada protocilon mododroo, o</u>	
Eye/face protection	Tight sealing safety goggles.
Skin and body protection	Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots.
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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. No information available. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe vapor or mist. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Liquid		
Appearance	Dark yellow	Odor	Alcohol
Color	No information available	Odor Threshold	No information available
Property_	<u>Values</u>	Remarks Method	
рН	UNKNOWN	None known	
Melting / freezing point	no data available	None known	
Boiling point / boiling range	no data available	None known	
Flash Point	no data available	None known	
Evaporation Rate	no data available	None known	
Flammability (solid, gas)	no data available	None known	
Flammability Limit in Air		None known	
Upper flammability limit	no data available		
Lower flammability limit	no data available		
Vapor pressure	no data available	None known	
Vapor density	no data available	None known	
Specific Gravity	.791	None known	
Water Solubility	Soluble in water	None known	
Solubility in other solvents	no data available	None known	
Partition coefficient: n-octanol/wate	erno data available	None known	
Autoignition temperature	no data available	None known	
Decomposition temperature	no data available	None known	
Kinematic viscosity	no data available	None known	
Dynamic viscosity	no data available	None known	
Explosive properties	no data available		
Oxidizing properties	no data available		
Other Information			
Other Information			
Softening Point	no data available		
VOC Content (%)	no data available		
Particle Size	no data available		
Particle Size Distribution			

10. STABILITY AND REACTIVITY

Reactivity

no data available.

Chemical stability Stable under recommended storage conditions. **Possibility of Hazardous Reactions** None under normal processing. **Hazardous Polymerization** Hazardous polymerization does not occur. Conditions to avoid Excessive heat. Heat, flames and sparks. Incompatible materials None known based on information supplied. Hazardous Decomposition Products Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Specific test data for the substance or mixture is not available. Toxic by inhalation. (based on components).
Specific test data for the substance or mixture is not available.
Specific test data for the substance or mixture is not available. Toxic in contact with skin. May be absorbed through the skin in harmful amounts. (based on components).
Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methanol	= 6200 mg/kg (Rat)	= 15800 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h = 64000
67-56-1			ppm (Rat)4h

Information on toxicological effects

Symptoms Delayed and immediate effects as v	Coughing and/ or wheezing. Difficulty in breathing. well as chronic effects from short and long-term exposure
Sensitization Carcinogenicity	No information available. The table below indicates whether each agency has listed any ingredient as a carcinogen.
Reproductive toxicity STOT - single exposure	No information available. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. Detailed substance and/or ingredient information may be provided in other sections of this SDS. Target organs effects listed in this document may result from a single overexposure to this product. Causes damage to organs if swallowed. Causes damage to organs in contact with skin.
STOT - repeated exposure Chronic toxicity	No information available. No known effect based on information supplied. Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions.
Target Organ Effects	Respiratory system. Systemic Toxicity. Central nervous system (CNS). Eyes. Gastrointestinal tract (GI). Skin.
Aspiration Hazard	No information available.

<u>Numerical measures of toxicity</u> <u>Product Information</u> The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 100.00 mg/kg ATEmix (dermal) 300.00 mg/kg (ATE) ATEmix (inhalation-dust/mist) 0.50 mg/L ATEmix (inhalation-vapor) 3.00 ATEmix

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methanol		96h LC50: = 28200 mg/L		
67-56-1		(Pimephales promelas) 96h		
		LC50: > 100 mg/L		
		(Pimephales promelas) 96h		
		LC50: 19500 - 20700 mg/L		
		(Oncorhynchus mykiss) 96h		
		LC50: 18 - 20 mL/L		
		(Oncorhynchus mykiss) 96h		
		LC50: 13500 - 17600 mg/L		
		(Lepomis macrochirus)		

Persistence and Degradability

No information available.

Bioaccumulation

Chemical name	Log Pow
Methanol	-0.77
67-56-1	

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods

Contaminated Packaging US EPA Waste Number Should not be released into the environment. Dispose of contents/containers in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Dispose of contents/containers in accordance with local regulations. U188 U081 U154 U048 P048

This product contains one or more substances that are listed with the State of California as a hazardous waste.

	California Hazardous Waste	
Methanol	Toxic	
67-56-1	Ignitable	

14. TRANSPORT INFORMATION

DOT		
UN-No.		
Proper	Shipping	Name

UN1230 METHANOL

Hazard Class Subsidiary class Packing Group Description Emergency Response Guide Number	3 6.1 II UN1230, METHANOL, 3 (6.1), II 131
TDG UN-No. Proper Shipping Name Hazard Class DOT Base Classification Subsidiary class Packing Group for DOT Base Classification Description	UN1230 METHANOL 3, (6.1) 6.1 II UN1230, METHANOL, 3 (6.1), II, MARINE POLLUTANT
<u>MEX</u> UN-No. Proper Shipping Name Hazard Class Subsidiary class Packing Group Description	UN1230 METHANOL 3 6.1 II UN1230, METHANOL, 3 (6.1), II
ICAO UN-No. Proper Shipping Name Hazard Class Subsidiary class Packing Group Description	UN1230 METHANOL 3 6.1 II UN1230, METHANOL, 3 (6.1), II
IATA UN-No. Proper Shipping Name Hazard Class Subsidiary class Packing Group Special Provisions Description	UN1230 METHANOL 3 6.1 II None UN1230, METHANOL, 3 (6.1), II
IMDG/IMO UN-No. Proper Shipping Name Hazard Class Subsidiary class Packing Group EmS-No. Special Provisions Marine Pollutant Description	UN1230 METHANOL 3 6.1 II F-E, S-D None Not applicable UN1230, METHANOL, 3 (6.1), II, MARINE POLLUTANT
<u>RID</u> UN-No. Proper Shipping Name Hazard Class Packing Group Classification code Special Provisions Description ADR/RID-Labels	UN1230 METHANOL 3 II FT1 None UN1230, METHANOL, 3 (6.1), II 6.1

ADR

ADIC	
UN-No.	UN1230
Proper Shipping Name	METHANOL
Hazard Class	3
Packing Group	II
Classification code	FT1
Tunnel restriction code	(D/E)
Special Provisions	None
Description	UN1230, METHANOL, 3 (6.1), II
ADR/RID-Labels	3 6.1
ADN	
UN-No.	UN1230
Proper Shipping Name	METHANOL
Hazard Class	3
Packing Group	II
Classification code	FT1
Special Provisions	279, 802
Description	UN1230, METHANOL, 3 (6.1), II
Hazard Labels	3 + 6.1
Limited Quantity	1 L
Ventilation	VE01, VE02

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.
ENCS	Contact supplier for inventory compliance status
IECSC	-
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AICS	Contact supplier for inventory compliance status

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

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methanol - 67-56-1	67-56-1	99.9976	1.0
SARA 311/312 Hazard Categories			
Acute Health Hazard	Yes		
Chronic Health Hazard	Yes		
Fire Hazard	Yes		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methanol 67-56-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations Mexico National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Methanol		Mexico: TWA 200 ppm
67-56-1 (99.9976)		Mexico: TWA 260 mg/m ³
		Mexico: STEL 250 ppm
		Mexico: STEL 310 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

NFPA	Health Hazards 4	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazards 3*	Flammability 0	Physical Hazard 0	Personal Protection X
Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501			
Issuing Date Revision Date Revision Note	21-Jan-20 21-Jan-20 No informa			

Disclaimer

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



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End of Safety Data Sheet