

SAFETY DATA SHEET

1. Identification

Product identifier: HYDRA-POINT™ COULOMETRIC VESSEL SOLUTION

Other means of identification

Product No.: 6280

Recommended use and restriction on use

Recommended use: Not available.

Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Avantor Performance Materials, Inc.
Address: 3477 Corporate Parkway, Suite 200
Center Valley, PA 18034

Telephone: Customer Service: 855-282-6867

Fax:
Contact Person: Environmental Health & Safety
e-mail: info@avantormaterials.com

Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Acute toxicity (Oral) Category 3
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Carcinogenicity Category 1B

Environmental Hazards

Acute hazards to the aquatic environment Category 3

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Highly flammable liquid and vapor.
Toxic if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause cancer.
Harmful to aquatic life.

Precautionary Statement

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. If exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage: Store in well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
CHLOROFORM		67-66-3	30 - 60%
METHYL ALCOHOL		67-56-1	30 - 60%
SULFUR DIOXIDE		7446-09-5	1 - 10%
IODINE		7553-56-2	0 - 5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand.

Ingestion:	Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. Never give liquid to an unconscious person.
Inhalation:	Move to fresh air. Apply artificial respiration if victim is not breathing. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
Skin Contact:	Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes. If skin irritation or an allergic skin reaction develops, get medical attention.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.

Most important symptoms/effects, acute and delayed

Symptoms: Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: Combustible liquid.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the MSDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up:	See Section 8 of the MSDS for Personal Protective Equipment. Eliminate all ignition sources if safe to do so. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures:	Inform authorities if large amounts are involved.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharges.
Conditions for safe storage, including any incompatibilities:	Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Keep container tightly closed. Ground container and transfer equipment to eliminate static electric sparks. Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
CHLOROFORM	TWA	10 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	2 ppm 9.78 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	Ceiling	50 ppm 240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
METHYL ALCOHOL	TWA	2 ppm 9.78 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	250 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	SULFUR DIOXIDE	STEL	0.25 ppm
	STEL	5 ppm 13 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	2 ppm 5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	5 ppm 13 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	2 ppm 5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	5 ppm 13 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
IODINE	Ceil_Time	0.1 ppm 1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	Ceiling	0.1 ppm 1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	Ceiling	0.1 ppm 1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
IODINE - Inhalable fraction and vapor.	TWA	0.01 ppm	US. ACGIH Threshold Limit Values (03 2014)
IODINE - Vapor and aerosol.	STEL	0.1 ppm	US. ACGIH Threshold Limit Values (03 2014)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
METHYL ALCOHOL (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEL (03 2013)

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.

Eye/face protection:

Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection

Hand Protection:	No data available.
Other:	Wear suitable protective clothing and gloves.
Respiratory Protection:	In case of inadequate ventilation, use respiratory protection.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin.

9. Physical and chemical properties

Appearance

Physical state:	Liquid
Form:	No data available.
Color:	Colorless to light brown
Odor:	Characteristic
Odor threshold:	No data available.
pH:	6
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	94.4 °C
Flash Point:	> 11 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	10.95 %(V)
Flammability limit - lower (%):	Estimated 1.8 %(V)
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	Estimated 448 hPa
Vapor density:	No data available.
Relative density:	1.2
Solubility(ies)	
Solubility in water:	Miscible with water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Heat, sparks, flames.
Incompatible Materials:	Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Ingestion: Toxic if swallowed. Ingestion may result in unconsciousness, blindness and death.

Inhalation: May cause irritation to the respiratory system.

Skin Contact: Causes skin irritation.

Eye contact: Severely irritating to eyes. May cause chemical eye burns.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Specified substance(s):
CHLOROFORM
LD 50 (Rabbit): 9,827 mg/kg
LD 50 (Mouse): 118 mg/kg
LD 50 (Rat): 444 mg/kg

Specified substance(s):
METHYL ALCOHOL
LD 50 (Rat): 5,628 mg/kg
LD 50 (Mouse): 7,300 mg/kg
LD 50 (Rabbit): 14,300 mg/kg
LD 50 (Monkey): 2,000 - 7,000 mg/kg
LD 50 (Dog): 7,500 - 8,000 mg/kg

Specified substance(s):
IODINE
LD 50 (Rat): 14 g/kg
LD 50 (Mouse): 22 mg/kg
LD 50 (Rabbit): 10 mg/kg

Dermal

Product: No data available.

Specified substance(s):
METHYL ALCOHOL
LD 50 (Rabbit): 15,800 mg/kg
LDLo (Monkey): 393 mg/kg

Inhalation

Product: No data available.

Specified substance(s):
CHLOROFORM
LC 50 (Rat, 4 h): 47.702 mg/l

Specified substance(s):
METHYL ALCOHOL
LC L0 (Mouse, 2 h): 50 mg/l
LC 50 (Rat, 1 h): > 145000 ppm
LC 50 (Rat, 4 h): 64000 ppm
LC 50 (Rat, 6 h): 87.5 mg/l
LC L0 (Monkey,): 1000 ppm

Specified substance(s):
SULFUR DIOXIDE
LC 50 (Mouse, 4 h): 1000 ppm
LC 50 (Rat, 1 h): 2400 ppm
LC 50 (Guinea Pig, 20 h): 1000 ppm

Repeated Dose Toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: May cause sensitization by inhalation and skin contact.

Carcinogenicity

Product: Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

CHLOROFORM Overall evaluation: 2B. Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

CHLOROFORM Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive Toxicity

Product: May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other Effects:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

CHLOROFORM

LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 62.81 - 79.61 mg/l Mortality

LC 50 (Bluegill (*Lepomis macrochirus*), 96 h): 18.3 mg/l Mortality

METHYL ALCOHOL LC 50 (Bluegill (*Lepomis macrochirus*), 24 h): 19,230 mg/l Mortality
 LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 24 h): 20,300 mg/l Mortality
 LC 50 (Fathead minnow (*Pimephales promelas*), 24 h): 29,700 mg/l Mortality
 LC 50 (Medaka, high-eyes (*Oryzias latipes*), 24 h): > 10,000 mg/l Mortality
 LC 50 (Bluegill (*Lepomis macrochirus*), 96 h): 15,400 mg/l Mortality

IODINE LC 50 (Guppy (*Poecilia reticulata*), 24 h): 3 mg/l Mortality
 LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 96 h): 0.48 - 0.58 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

CHLOROFORM EC 50 (Brine shrimp (*Artemia salina*), 24 h): 28.6 - 33.8 mg/l Intoxication
 EC 50 (Water flea (*Daphnia magna*), 24 h): 79 mg/l Intoxication
 LC 50 (Water flea (*Daphnia magna*), 216 h): 200 - 512 mg/l Mortality
 LC 50 (Water flea (*Daphnia magna*), 48 h): 19 - 47 mg/l Mortality

METHYL ALCOHOL EC 50 (Water flea (*Daphnia magna*), 48 h): 20,450 - 29,350 mg/l Intoxication
 LC 50 (Water flea (*Daphnia magna*), 48 h): 2,461 - 4,395 mg/l Mortality

IODINE LC 50 (Water flea (*Daphnia magna*), 96 h): 0.51 - 0.68 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: There are no data on the degradability of this product.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

CHLOROFORM Log Kow: 1.97
 METHYL ALCOHOL Log Kow: -0.77
 IODINE Log Kow: 2.49

Mobility in Soil:

The product is partly soluble in water. May spread in the aquatic environment.

Other Adverse Effects: The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number:	UN 1992
UN Proper Shipping Name:	Flammable liquids, toxic, n.o.s.(contains Methanol, Chloroform)
Transport Hazard Class(es)	
Class(es):	3, 6.1
Label(s):	3, 6.1
Packing Group:	II
Marine Pollutant:	No

IMDG

UN Number:	UN 1992
UN Proper Shipping Name:	FLAMMABLE LIQUID, TOXIC, N.O.S.(CONTAINS METHANOL, CHLOROFORM)
Transport Hazard Class(es)	
Class(es):	3, 6.1
Label(s):	3, 6.1
EmS No.:	F-E, S-D
Packing Group:	II
Marine Pollutant:	No

IATA

UN Number:	UN 1992
Proper Shipping Name:	Flammable liquid, toxic, n.o.s.(contains Methanol, Chloroform)
Transport Hazard Class(es):	
Class(es):	3, 6.1
Label(s):	3, 6.1
Marine Pollutant:	No
Packing Group:	II

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
 None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
 CHLOROFORM Reportable quantity: 10 lbs.
 METHYL ALCOHOL Reportable quantity: 5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

SARA 302 Extremely Hazardous Substance

Chemical Identity	RQ	Threshold Planning Quantity
CHLOROFORM	10 lbs.	10000 lbs.
SULFUR DIOXIDE	500 lbs.	500 lbs.

SARA 304 Emergency Release Notification

Chemical Identity	RQ
CHLOROFORM	10 lbs.
METHYL ALCOHOL	5000 lbs.
SULFUR DIOXIDE	

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
CHLOROFORM	500lbs
SULFUR DIOXIDE	500lbs
METHYL ALCOHOL	500 lbs
IODINE	500 lbs

SARA 313 (TRI Reporting)

Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
CHLOROFORM	10000 lbs	25000 lbs.
METHYL ALCOHOL	10000 lbs	25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

CHLOROFORM Reportable quantity: 10 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

CHLOROFORM Threshold quantity: 20000 lbs

SULFUR DIOXIDE Threshold quantity: 5000 lbs

US State Regulations

US. California Proposition 65

CHLOROFORM Carcinogenic.
 CHLOROFORM Developmental toxin.
 METHYL ALCOHOL Developmental toxin. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
 SULFUR DIOXIDE Developmental toxin.

US. New Jersey Worker and Community Right-to-Know Act

CHLOROFORM Listed
 METHYL ALCOHOL Listed
 SULFUR DIOXIDE Listed
 IODINE Listed

US. Massachusetts RTK - Substance List

CHLOROFORM	Listed
METHYL ALCOHOL	Listed
SULFUR DIOXIDE	Listed
IODINE	Listed

US. Pennsylvania RTK - Hazardous Substances

CHLOROFORM	Listed
METHYL ALCOHOL	Listed
SULFUR DIOXIDE	Listed
IODINE	Listed

US. Rhode Island RTK

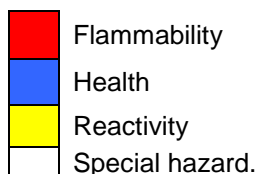
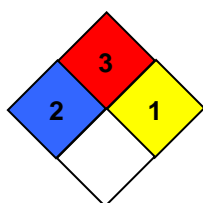
CHLOROFORM	Listed
METHYL ALCOHOL	Listed
SULFUR DIOXIDE	Listed
IODINE	Listed

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Switzerland Consolidated Inventory:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

16. Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date:	12-29-2014
Revision Date:	No data available.
Version #:	1.0
Further Information:	No data available.

Disclaimer:

THE INFORMATION PRESENTED IN THIS MATERIAL SAFETY DATA SHEET (MSDS/SDS) WAS PREPARED BY TECHNICAL PERSONNEL BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH JUDGMENT IS ACCURATE. HOWEVER, THE INFORMATION PROVIDED HEREIN IS PROVIDED "AS IS," AND AVANTOR PERFORMANCE MATERIALS MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION<(>,<)> WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. THIS MSDS/SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS MSDS/SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, AVANTOR PERFORMANCE MATERIALS ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. AVANTOR PERFORMANCE MATERIALS REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS MSDS/SDS AVAILABLE TO YOUR EMPLOYEES.