SAFETY DATA SHEET

GHEMSERVIGE

1. Identification

Product identifier	Perfluorooctanesulfonic ac	id Solution	
Other means of identification			
Item	S-14002M1		
Recommended use	For Laboratory Use Only		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	Chem Service, Inc. 660 Tower Lane West Chester, PA 19380 United States		
Telephone	Toll Free Direct	800-452-9994 610-692-3026	
Website E-mail Emergency phone number	www.chemservice.com info@chemservice.com Chemtrec US Chemtrec outside US	800-424-9300 +1 703-527-3887	
2. Hazard(s) identification			
Physical hazards	Flammable liquids	Cate	
Health hazards	Acute toxicity, oral	Cate	

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, oral	Category 3
	Acute toxicity, dermal	Category 3
	Acute toxicity, inhalation	Category 3
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 2
	Specific target organ toxicity, single exposure	Category 1
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	



Danger

Signal word Hazard statement

Label elements

Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Toxic if inhaled. Suspected of damaging fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement

Prevention

Response	If swallowed: Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor. Rinse mouth. If eye irritation persists: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) Supplemental information	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. 0.01% of the mixture consists of component(s) of unknown acute dermal toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methanol		67-56-1	99.99
Perfluorooctanesulfonic Acid		1763-23-1	0.01

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	Dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. s
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.
6. Accidental release me	asures
Personal precautions, protective equipment and	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate

ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Refrigeration recommended.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits Components	s for Air Contaminan Typ			/alue
Methanol (CAS 67-56-1)	PEL			260 mg/m3 200 ppm
US. ACGIH Threshold Limi	it Values			
Components	Тур	e	١	/alue
Methanol (CAS 67-56-1)	STE	E	2	250 ppm
	TW	4		200 ppm
US. NIOSH: Pocket Guide				
Components	Тур			/alue
Methanol (CAS 67-56-1)	STE	E		325 mg/m3
	TW	^		250 ppm 260 mg/m3
	1 007	7		200 mg/ms 200 ppm
Biological limit values				
ACGIH Biological Exposur	e Indices			
Components	Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
* - For sampling details, plea	ase see the source doo	cument.		
Exposure guidelines				
US - California OELs: Skin	-			
Methanol (CAS 67-56-1 US - Minnesota Haz Subs:			e absorbed thre	ough the skin.
Methanol (CAS 67-56-1 US - Tennessee OELs: Ski		Skin d	esignation app	lies.
Methanol (CAS 67-56-1 US ACGIH Threshold Limit			e absorbed thre	ough the skin.
Methanol (CAS 67-56-1 US NIOSH Pocket Guide to			e absorbed thre	ough the skin.
Methanol (CAS 67-56-1)	Can b	e absorbed thre	ough the skin.
Appropriate engineering controls	changes per hour) applicable, use pro maintain airborne l established, mainta	Explosion-proof general and local exhaust ventilation. 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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.		
ndividual protection measures				full facesies
Eye/face protection	Chemical respirato	or with organic vapo	r cannoge and	
Skin protection Hand protection	Wear appropriate of supplier.	chemical resistant g	loves. Suitable	gloves can be recommended by the glove
Other	Wear appropriate	chemical resistant c	lothing. Use of	an impervious apron is recommended.
Respiratory protection	Chemical respirato	or with organic vapo	r cartridge and	full facepiece.
Thermal hazards	Wear appropriate t	hermal protective c	lothing, when r	necessary.
General hygiene considerations	hygiene measures	, such as washing a	after handling th	d drink. Always observe good personal ne material and before eating, drinking, and/or re equipment to remove contaminants.
9. Physical and chemical	properties			

Appearance

Physical state	Liquid.
Form	Liquid.

Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-144.04 °F (-97.8 °C) estimated
Initial boiling point and boiling range	148.46 °F (64.7 °C) estimated
Flash point	53.6 °F (12.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	7.3 % estimated
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	169.3 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	867.2 °F (464 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.7865 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	99.99 % estimated
Specific gravity	0.79 estimated
VOC (Weight %)	99.99 % estimated
10 Stability and reactivity	

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Toxic if inhaled. May cause damage to organs by inhalation. May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	Toxic in contact with skin.
Eye contact	Causes serious eye irritation.

ingestion
Symptoms related to the
physical, chemical and
toxicological characteristics

Ingention

Toxic if swallowed.

Headache. Dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity	Toxic if inhaled. Toxic in contact	with skin. Toxic if swallowed.
Components	Species	Test Results
Methanol (CAS 67-56-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	15800 mg/kg
Inhalation		
LC50	Mouse	79.43 mg/l, 134 Minutes
	Rat	> 115.9 mg/l, 4 Hours
		64000 ppm, 4 Hours
		82.1 mg/l, 6 Hours
Oral		
LD50	Monkey	6000 mg/kg
	Mouse	7300 mg/kg
	Pig	> 5000 mg/kg
	Rabbit	14.4 g/kg
	Rat	5628 mg/kg
Other		
LD50	Guinea pig	3556 mg/kg
	Hamster	8555 mg/kg
	Mouse	4100 mg/kg
	Rabbit	1826 mg/kg
	Rat	2131 mg/kg
Perfluorooctanesulfonic Acid (CA	S 1763-23-1)	
Acute		
Inhalation		
LC50	Rat	5.2 mg/l, 1 Hours
Oral		
LD50	Rat	251 mg/kg
* Estimates for product may b	be based on additional component of	data not shown
Skin corrosion/irritation	Prolonged skin contact may cause	
Serious eye damage/eye	Causes serious eye irritation.	
irritation		
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to c	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to	be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not available.		
	ogram (NTP) Report on Carcinog	ens
Not available. US. OSHA Specifically Reg	ulated Substances (29 CFR 1910.	1001-1050)
Not listed.		

Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	Causes damage to organs.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Components	Species Test Results		Test Results
Methanol (CAS 67-56-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octa	nol / water (log Kow)	
Methanol	-0.77	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT	
UN number	UN1230
UN proper shipping name	Methanol, solution (Methanol RQ = 5001 LBS)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T7, TP2
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1230
UN proper shipping name	Methanol solution (Methanol)

Transport hazard class(es)		
Class	3	
Subsidiary risk	6.1(PGI, II)	
Packing group	II	
Environmental hazards	No.	
ERG Code	3L	
	r Read safety instructions, SE	S and emergency procedures before handling.
Other information		
Passenger and cargo	Allowed.	
aircraft Cargo aircraft only	Allowed.	
IMDG	Allowed.	
UN number	UN1230	
UN proper shipping name	METHANOL SOLUTION (M	ethanol)
Transport hazard class(es)	-	,
Class	3	
Subsidiary risk	6.1(PGI, II)	
Packing group	П	
Environmental hazards		
Marine pollutant	No.	
EmS	F-E, S-D	
	r Read safety instructions, SL Not established.	S and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and	Not established.	
the IBC Code		
DOT		
FLAMMABLE 3		
IATA; IMDG		
	6	
15. Regulatory informatio		
US federal regulations	Standard, 29 CFR 1910.120	
	Notification (40 CFR 707, Su	
Perfluorooctanesulfonic TSCA Chemical Action Pla		1.0 % One-Time Export Notification only.
Perfluorooctanesulfonic CERCLA Hazardous Subst		Long-Chain Perfluorinated Chemicals (PFCs) Action Plan
Methanol (CAS 67-56-1) SARA 304 Emergency relea Not regulated.		Listed.
Material name: Perfluorooctanesulfo	acid Solution	

US. OSHA Specifically R Not listed.	egulated Substances (29 CFR 19 [.]	10.1001-1050)		
	Reauthorization Act of 1986 (SA Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	RA)		
SARA 302 Extremely haz	ardous substance			
Not listed. SARA 311/312 Hazardou: chemical	s No			
SARA 313 (TRI reporting Chemical name)	CAS number	% by wt.	
Methanol		67-56-1	99.99	
Other federal regulations				
-	ion 112 Hazardous Air Pollutants	(HAPs) List		
Methanol (CAS 67-56 Clean Air Act (CAA) Sect Not regulated. Safe Drinking Water Act	-1) ion 112(r) Accidental Release Pre	evention (40 CFR	68.130)	
(SDWA)	5			
JS state regulations				
US - New Jersey RTK - S	ubstances: Listed substance			
Methanol (CAS 67-56 US. California Controlled	-1) I Substances. CA Department of .	Justice (Californi	a Health and Safety Code	e Section 11100)
Not listed. US. California. Candidate (a))	e Chemicals List. Safer Consume	r Products Regul	ations (Cal. Code Regs, t	it. 22, 69502.3, subd.
US. Massachusetts RTK Methanol (CAS 67-56	ic Acid (CAS 1763-23-1) - Substance List	ct		
Methanol (CAS 67-56 US. Pennsylvania RTK -	-1) Hazardous Substances			
-	r and Community Right-to-Know	Law		
Methanol (CAS 67-56 US. Rhode Island RTK Methanol (CAS 67-56				
US. California Propositio WARNING: This prod harm.	n 65 uct contains a chemical known to th	e State of Californ	ia to cause birth defects or	other reproductive
US - California Propo Methanol (CAS 6	osition 65 - CRT: Listed date/Deve 7-56-1)	elopmental toxin Listed: March 16		
nternational Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)
Australia	Australian Inventory of Chemi	-	ICS)	Ye
Canada	Domestic Substances List (DS			Ye
Canada	Non-Domestic Substances Lis	. ,		N
China	Inventory of Existing Chemica			Ye
Europe	European Inventory of Existing Substances (EINECS)	-		Ye
Europe	European List of Notified Cher			N
Japan	Inventory of Existing and New	Chemical Substa	nces (ENCS)	Ye

Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	12-11-2015
Revision date	06-11-2017
Version #	02
NFPA ratings	Health: 4 Flammability: 3 Instability: 0
Disclaimer	The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.
	Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.
	This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.
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	This product is furnished FOR LABORATORY USE ONLY.
Revision Information	Composition / Information on Ingredients: Ingredients