

SAFETY DATA SHEET

1. Identification

Product identifier	Volatiles System Performance Check Mix-8260/CLP	
Other means of identification		
Item	M-CLP6M5	
Recommended use	For Laboratory Use Only	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	Chem Service, Inc.	
Address	660 Tower Lane	
	West Chester, PA 19380	
	United States	
Telephone	Toll Free	800-452-9994
	Direct	610-692-3026
Website	www.chemservice.com	
E-mail	info@chemservice.com	
Emergency phone number	Chemtrec US	800-424-9300
	Chemtrec outside US	+1 703-527-3887

2. Hazard(s) identification

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
	Carcinogenicity	Category 2
	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.	

Label elements

Signal word

Hazard statement



Danger

Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Toxic if inhaled. Suspected of causing cancer. 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. Use only outdoors or in a well-ventilated area. 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. 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. Specific treatment (see this label). 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)	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.
Supplemental information	0.6% of the mixture consists of component(s) of unknown acute dermal toxicity. 0.2% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methanol		67-56-1	99
1,1,2,2-Tetrachloroethane		79-34-5	0.2
1,1-Dichloroethane		75-34-3	0.2
Bromoform		75-25-2	0.2
Chlorobenzene		108-90-7	0.2
Methyl chloride		74-87-3	0.2

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical attention if irritation develops and persists.
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	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. In case of shortness of breath, give oxygen. 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. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 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	Do not use water jet as an extinguisher, as this will spread the fire.

Unsuitable extinguishing media

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.
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 measures

Personal precautions, protective equipment and emergency procedures	Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all 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. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. 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.
Methods and materials for containment and cleaning up	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. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: 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.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Avoid contact with clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

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".

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

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Тур	e		Value
1,1,2,2-Tetrachloroethane (CAS 79-34-5)	PEL	-		35 mg/m3
				5 ppm
1,1-Dichloroethane (CAS 75-34-3)	PEL	-		400 mg/m3
	551			100 ppm
Bromoform (CAS 75-25-2)	PEL	-		5 mg/m3
Chlorobenzene (CAS 108-90-7)	PEL	-		0.5 ppm 350 mg/m3
100-30-7)				75 ppm
Methanol (CAS 67-56-1)	PEL	-		260 mg/m3
				200 ppm
US. OSHA Table Z-2 (29 Cl Components	гк 1910.1000) Тур	e		Value
Methyl chloride (CAS				
74-87-3)	Ceil	ing		200 ppm
,	TW	A		100 ppm
US. ACGIH Threshold Lim				
Components	Тур	e		Value
1,1,2,2-Tetrachloroethane (CAS 79-34-5)	TW	4		1 ppm
1,1-Dichloroethane (CAS 75-34-3)	TW	Ą		100 ppm
Bromoform (CAS 75-25-2)	TW	A		0.5 ppm
Chlorobenzene (CAS 108-90-7)	TW	Ą		10 ppm
Methanol (CAS 67-56-1)	STE			250 ppm
	TW			200 ppm
Methyl chloride (CAS 74-87-3)	STE	ËL		100 ppm
74-07-3)	TW	A		50 ppm
US. NIOSH: Pocket Guide	to Chemical Hazards	i		
Components	Тур	e		Value
1,1,2,2-Tetrachloroethane (CAS 79-34-5)	TW	4		7 mg/m3
				1 ppm
1,1-Dichloroethane (CAS 75-34-3)	TW	A		400 mg/m3
Bromoform (CAS 75-25-2)	TW	Δ		100 ppm 5 mg/m3
	1 002	·		0.5 ppm
Methanol (CAS 67-56-1)	STE	EL		325 mg/m3
				250 ppm
	TW	A		260 mg/m3
				200 ppm
ogical limit values				
ACGIH Biological Exposur				
Componento	Value	Determinant	Specime	n Sampling Time
Components				
Chlorobenzene (CAS 108-90-7)	100 mg/g	4-Chlorocated	ch Creatinine urine	

ACGIH Biological Exposu Components	re indices Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
* - For sampling details, plea	ase see the source o	locument.		
kposure guidelines				
US - California OELs: Skir	n designation			
1,1,2,2-Tetrachloroetha Bromoform (CAS 75-25 Methanol (CAS 67-56- US - Minnesota Haz Subs:	5-2) 1)	Can I Can I	be absorbed throu be absorbed throu be absorbed throu	igh the skin.
1,1,2,2-Tetrachloroetha Bromoform (CAS 75-25 Methanol (CAS 67-56- US - Tennesse OELs: Ski r	ane (CAS 79-34-5) 5-2) 1)	Skin Skin	designation applie designation applie designation applie	es.
1,1,2,2-Tetrachloroetha Bromoform (CAS 75-25 Methanol (CAS 67-56- US ACGIH Threshold Lim i	ane (CAS 79-34-5) 5-2) 1)	Can I Can I	be absorbed throu be absorbed throu be absorbed throu	igh the skin.
1,1,2,2-Tetrachloroetha Methanol (CAS 67-56- Methyl chloride (CAS 7 US NIOSH Pocket Guide t	ane (CAS 79-34-5) 1) 4-87-3)	Can I Can I Can I	be absorbed throu be absorbed throu be absorbed throu	igh the skin.
1,1,2,2-Tetrachloroetha Bromoform (CAS 75-25 Methanol (CAS 67-56-7 US. OSHA Table Z-1 Limit	5-2) 1)	Can I Can I	be absorbed throu be absorbed throu be absorbed throu 000)	igh the skin.
1,1,2,2-Tetrachloroetha Bromoform (CAS 75-25			be absorbed throube absorbed throube absorbed throu	
ppropriate engineering ontrols	changes per hou applicable, use p maintain airborn	r) should be used. V process enclosures, l e levels below recom	entilation rates sh local exhaust vent nmended exposure	Good general ventilation (typically 10 air nould be matched to conditions. If illation, or other engineering controls to e limits. If exposure limits have not been level. Provide eyewash station.
dividual protection measure	s, such as persona	I protective equipm	ent	
Eye/face protection	•			le shields (or goggles).
Skin protection Hand protection	Wear protective	gloves.		
Other	Wear appropriat	e chemical resistant	clothing.	
Respiratory protection	If engineering co limits (where ap	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.		
Thermal hazards	Wear appropriat	e thermal protective	clothing, when ne	cessary.
				ve good personal hygiene measures, suc ng, drinking, and/or smoking. Routinely
eneral hygiene onsiderations		ing and protective eq		
	wash work cloth			
onsiderations	wash work cloth			
onsiderations . Physical and chemica ppearance	wash work cloth			
onsiderations . Physical and chemica	wash work cloth			

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	148.46 °F (64.7 °C) estimated
range	
Flash point	53.6 °F (12.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

Material name: Volatiles System Performance Check Mix-8260/CLP

Upper/lower flammability or explosive limits

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	0.793982 g/cm3 estimated
Flammability class	Flammable IB estimated
Percent volatile	99.4 % estimated
Specific gravity	0.79 estimated
VOC (Weight %)	99.4 % 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

Ingestion	Toxic if swallowed.
Inhalation	Toxic by inhalation. May cause damage to organs by inhalation.
Skin contact	Toxic in contact with skin.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity

Toxic by inhalation. Toxic if swallowed. Toxic in contact with skin. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results
1,1,2,2-Tetrachloroethane	(CAS 79-34-5)	
Acute		
Dermal		
LD50	Rabbit	4 g/kg
Inhalation		
LC50	Mouse	655 ppm, 4 Hours
		5.5 mg/l, 2 Hours
	Rat	1000 ppm, 4 Hours

Components	Species	Test Results
		8.6 mg/l, 4 Hours
Oral		
LD50	Rat	250 mg/kg
		0.2 ml/kg
Other		
LD50	Mouse	1108 mg/kg
1,1-Dichloroethane (CAS 75-34-3	i)	
Acute		
Dermal	Dabbit	2200 malka
LD50	Rabbit	3890 mg/kg
Inhalation LC50	Mouse	17200 ppm 2 Hours
LC50		17300 ppm, 2 Hours
	Rat	16000 ppm, 8 Hours
		13000 ppm, 4 Hours
Oral		
LD50	Rat	725 mg/kg
Bromoform (CAS 75-25-2)		
Acute		
Oral		
LD50	Mouse	1400 mg/kg
	Rat	1147 mg/kg
Other		
LD50	Mouse	1820 mg/kg
	Rat	414 mg/kg
Chlorobenzene (CAS 108-90-7)		
Acute		
Inhalation		
LC100	Mouse	0.05 mg/l
LC50	Mouse	1886 ppm, 6 Hours
	Rat	2965 ppm, 6 Hours
		13.9 mg/l, 6 Hours
Oral		
LD50	Guinea pig	5060 mg/kg
	Mouse	778 mg/kg
	Rabbit	2250 mg/kg
	Rat	1110 mg/kg
	Nat	
0.11		1.29 ml/kg
<i>Other</i> LD50	Mouse	515 mg/kg
EB30		
	Rat	570 mg/kg
Methanol (CAS 67-56-1)		
Acute		
Dermal LD50	Rabbit	15800 malka
	Raddi	15800 mg/kg
Inhalation LC50	Mouse	70 13 mal 121 Minutes
		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 Mouse	6000 mg/kg

Pig > 5000 mg/kg Rabit 14.4 g/kg Rat 5628 mg/kg Uber LD50 Guinea pig 3556 mg/kg Hamster 8655 mg/kg Mouse 4100 mg/kg Rat 2131 mg/kg Methyl chloride (CAS 74-87-3) Rat Acute Inhalation LCS0 - Good mg/m3, 7 Hours 3000 ppm, 4 Hours 3000 ppm, 6 Hours 6.30 mg/m3, 7 Hours Acute 1100 mg/kg Rat 73600 ppm, 30 Minutes Starget, 7 Hours 6.3 mg/l, 7 Hours 6.3 mg/l, 7 Hours 6.3 mg/l, 4 Hours Z200 ppm, 4 Hours 5133 ppm, 1 Hours Stria corresion/irritation Prolonged skin contact may cause temporary irritation. Stric corresion/irritation Prolonged skin contact may cause temporary irritation. Stris corresion/irritation No data available to indicate product or any components present at greater than 0.1% are mutagenicity or sensitization Carrai Uber causing cancer. IAKE Monographs. Overall Evaluation of Carcinogenicity No data available ta to carcinogenicity to humans. Bromotem (CAS 74-87-3) Subci	Components	Species		Test Results
Art 50 mg/kg Other 3556 mg/kg LD50 Guinea pig 3556 mg/kg Hamster 3555 mg/kg Mouse 4100 mg/kg Rabbit 1228 mg/kg Rabbit 1228 mg/kg Rat 2131 mg/kg Muse 6300 mg/m3 Acute 6300 mg/m3 Inhelation 6300 mg/m3 LC50 Acute Mouse 6300 mg/m3 Mouse 6300 mg/m3 Acute 3000 ppm, 4 Hours LC50 Acute Mouse 6300 mg/m3 Mouse 513 3pm, 1 Hours J200 ppm, 4 Hours 3700 ppm, 4 Hours LD50 Ret 1800 mg/kg Stin corrosion/ritation Prolonged skin contact may cause temporary irritation. Stin corrosion/ritation Prolonged skin contact may cause temporary irritation. Stin corrosion/ritation Thol product is not expected to cause skin sensitization. <		Pig		> 5000 mg/kg
Other Jöfen pig 3556 mg/kg LD50 Guine pig 3556 mg/kg Hamster 8555 mg/kg Mouse 4100 mg/kg Rabbit 1826 mg/kg Rabbit 1826 mg/kg Rat 2131 mg/kg Methyl chloride (CAS 74-87-3) 6300 mg/m3 Acute 6300 mg/m3, 7 Hours Inhalation - 6300 mg/m3, 7 Hours LC50 Mouse 6000 mg/m3, 7 Hours J000 ppm, 4 Hours 200 ppm, 6 Hours Card 6.3 mg/t, 7 Hours LC50 Rat 73600 ppm, 30 Minutes Sin approximation 6.3 mg/t, 7 Hours J000 ppm, 4 Hours 2700 ppm, 4 Hours LD50 Rat 1800 mg/kg * Estimates for product may based on additional component data not shown. 5133 ppm, 1 Hours Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Skin sensitization This product is not expected to cause skin sensitization. Skin sensitization Not available to indicate product or any component strest present at greater than 0.1% are mutagenic or genotoxic. Grein call mutagenicity No datavailable to indicate product or any component or acrinogenicity to humans. Rospiratory sensitization Sin datavailable to indicate product or any component at greater th		Rabbit		14.4 g/kg
LD50Guinea pig3556 mg/kgHamster8555 mg/kgMouse4100 mg/kgRabit1826 mg/kgRabit2131 mg/kgMatation-6300 mg/m3, 7 HoursLC50-6300 mg/m3, 7 HoursLC50-6300 mg/m3, 7 HoursMatation-6300 mg/m3, 7 HoursLC50-6300 mg/m3, 7 HoursMouse6300 mg/m3, 7 HoursLC50-6300 mg/m3, 7 HoursMouse6300 mg/m3, 7 HoursMouse-73600 ppm, 6 HoursC100Rat7360 mg/m3, 7 Hours1000 ppm, 4 Hours133 ppm, 1 Hours200 ppm, 6 Hours133 ppm, 1 Hours1000 ppm, 4 Hours53 mg/l, 4 Hours1010 ppmRat1800 mg/kgVariationProlonged skin contact may cause temporary intritationRespiratory or skin sensitizationNot available is not expected to any cause skin sensitizationStin ourseion/irritationNot available is not expected or any comporary intritationRespiratory or skin sensitizationNot available is not expected or any comporary is resent at greater than 0.1% are tagencic or genetoxic.Stin ourseinderitizationNot available to indicate product or any componenticat product may cause skin sensitizationStin ourseinderitizationNot available to indicate product or any componenticat product may cause skin sensitizationStin ourseinderitizationNot available to indicate product or any componenticate product or any componenticate product or any componenticate product or any componenticate product or any compo		Rat		5628 mg/kg
Hamster 8555 mg/kg Mouse 4100 mg/kg Rabbit 1826 mg/kg Rabbit 2131 mg/kg Methyl chloride (CAS 74-87-3) Rat 2131 mg/kg Methyl chloride (CAS 74-87-3) Mouse 6300 mg/m3 LC50 - 6300 mg/m3, 7 Hours Junialation - 6300 mg/m3, 7 Hours LC50 Acute 6300 mg/m3, 7 Hours Junice 6300 mg/m3, 7 Hours 2200 ppm, 6 Hours 6.3 mg/l, 7 Hours 6.3 mg/l, 7 Hours Junice Rat 73600 ppm, 30 Minutes String corrosion/irritation Prolonged skin contact may cause temporary irritation. String corrosion/irritation Prolonged skin contact may cause temporary irritation. String corrosion/irritation Prolonged skin contact may cause temporary irritation. String corrosion/irritation Not available. String corrosion/irritation <td>Other</td> <td></td> <td></td> <td></td>	Other			
Mode 4100 mg/kg Rabbit 1826 mg/kg Rabbit 1826 mg/kg Rat 2131 mg/kg Methyl chloride (CAS 74-87-3) 6300 mg/m3 Acute 10halation LC50 - G300 mg/m3, 7 Hours 3000 ppm, 4 Hours 2200 ppm, 6 Hours 6,3 mg/l, 7 Hours Acute 4.6 mg/l, 6 Hours Mouse 6,3 mg/l, 7 Hours 2200 ppm, 6 Hours 6,3 mg/l, 7 Hours Acute 73600 ppm, 30 Minutes Star Sample, 1 Hours 2700 ppm, 4 Hours 2700 ppm, 4 Hours 5133 ppm, 1 Hours 28 Point or solid irritation Not available Respiratory or skin sensitization Causes serious eye irritation- Respiratory or skin sensitization This product is not expected to cause skin sensitization- Gern cell mutagenicity Not available Skin sensitization This product is not expected to cause skin sensitization- Gern cell mutagenicity Sus	LD50	Guinea pig		3556 mg/kg
Rabbit 1826 mg/kg Rat 2131 mg/kg Methyl chloride (CAS 74-87-3) - Acute 6300 mg/m3 Inhalation LC50 - LC50 - 6300 mg/m3, Hours 3000 ppm, 4 Hours 2200 ppm, 6 Hours - 6.3 mg/l, 7 Hours 2200 ppm, 6 Hours - 6.3 mg/l, 7 Hours - - 7600 ppm, 30 Minutes - - 7000 ppm, 4 Hours - - Shin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious ope damage/epe Cause serious eye irritation. Respiratory or skin sensitization - - Germ cell mutagenicity Not available to indicat product or any comporents present at greater than 0.1% are mutagenic or genotoxic. - </td <td></td> <td>Hamster</td> <td></td> <td>8555 mg/kg</td>		Hamster		8555 mg/kg
Rat 213 mg/mg Acute 6300 mg/m3 Inhalation 6300 mg/m3, 7 Hours LC50 - 6300 mg/m3, 7 Hours LC50 Mouse 6300 mg/m3, 7 Hours LC50 Mouse 6300 mg/m3, 7 Hours LC50 Rat 3000 pg/m, 4 Hours 2000 pg/m, 6 Hours 6.3 mg/l, 7 Hours Acute 6.3 mg/l, 7 Hours LC50 Rat 73600 pg/m, 30 Minutes F33 pg/m, 1 Hours 5133 pg/m, 1 Hours 2000 pg/m, 4 Hours 53 mg/l, 4 Hours Draf Rat 1800 mg/mg Variation Prolonged skin contact may cause temporary inritation. Sprious eye damage/eye Causes serious eye irritation. Skin sensitization This product is not expected to cause skin sensitization. Germ cell mutagenicity Noi davailable to indicatE product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity Noi dasailable to indicatE product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity Noi dasailable to indicatE product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcrinogenicity Noi dasailable		Mouse		4100 mg/kg
Methyl chloride (CAS 74-87-3) Acute inhalation LC50 Acute Solon gr/m3 Acute Ac		Rabbit		1826 mg/kg
Acute Inhalation LC50-6300 mg/m3LC50-6300 mg/m3, 7 HoursLC50Mouse6300 mg/m3, 7 HoursMouse3000 ppm, 4 Hours200 ppm, 6 Hours200 ppm, 6 Hours6.3 mg/l, 7 Hours6.3 mg/l, 7 Hours4.6 mg/l, 6 HoursFat73600 ppm, 30 Minutes5133 ppm, 1 Hours5133 ppm, 1 Hours200 ppm, 4 Hours5.3 mg/l, 4 Hours5100 ppm, 4 Hours5.3 mg/l, 4 Hours200 ppm, 4 Hours5.3 mg/l, 4 Hours201 ptRat1800 mg/kg* Estimates for product may based on additional component data not shown.Skin corrosion/irritationProlonged skin contact may cause temporary irritation.Serious eye damage/eye irritationCauses serious eye irritation.Respiratory sensitizationNot available.Skin sensitizationNot available.Skin sensitizationNot available.Suspected of causing cancer.Integrate or genotoxic.CarcinogenicitySuspected of causing cancer.I,1,2,2-TetrachtoroetherSi Sossibly carcinogenicity to humans. Not classifiable as to carcino		Rat		2131 mg/kg
Inhalation LC50 - Goom Gind Gind Gind Gind Gind Gind Gind Gind	Methyl chloride (CAS 74-87-3)			
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		Suspected of damaging fertility	v or the unborn child	
single exposure	Specific target organ toxicity -			
Specific target organ toxicity - Causes damage to organs through prolonged or repeated exposure. repeated exposure	Specific target organ toxicity -	Causes damage to organs through prolonged or repeated exposure.		
Aspiration hazard Not available.		Not available.		
-	-	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. Causes		
12. Ecological information	12. Ecological information			
-	•	The product is not classified as environmentally hazardous. However, this does not exclude the		

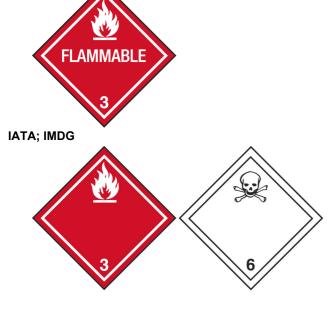
)-34-5)))	Water flea (Daphnia magna) Sheepshead minnow (Cyprinodon variegatus) Inland silverside (Menidia beryllina) Sheepshead minnow (Cyprinodon variegatus)	16 - 35 mg/l, 48 hours 4.7 - 32 mg/l, 96 hours 480 mg/l, 96 hours 4.6 - 11 mg/l, 96 hours
)	Sheepshead minnow (Cyprinodon variegatus) Inland silverside (Menidia beryllina) Sheepshead minnow (Cyprinodon	4.7 - 32 mg/l, 96 hours 480 mg/l, 96 hours
)	Sheepshead minnow (Cyprinodon variegatus) Inland silverside (Menidia beryllina) Sheepshead minnow (Cyprinodon	4.7 - 32 mg/l, 96 hours 480 mg/l, 96 hours
)	Inland silverside (Menidia beryllina) Sheepshead minnow (Cyprinodon	
)	Sheepshead minnow (Cyprinodon	
)	Sheepshead minnow (Cyprinodon	
		4.6 - 11 mg/l, 96 hours
		4.6 - 11 mg/l, 96 hours
		4.6 - 11 mg/l, 96 hours
)		
)		
)		
	Bluegill (Lepomis macrochirus)	4.1 - 4.9 mg/l, 96 hours
D	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
)	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
)	Inland silverside (Menidia beryllina)	270 mg/l, 96 hours
sed on ad	dditional component data not shown.	
	vailable on the degradability of this product.	
No data available.		
vater (log	g Kow)	
	2.39	
	1.79	
2.4 2.89 -0.77		
0.91		
No data available.		
No other adverse environmental effects (e.g. ozone depletion, photoch potential, endocrine disruption, global warming potential) are expected		
tions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This may and its container must be disposed of as hazardous waste. Do not allow this material to dra sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or upplies.		te. Do not allow this material to drain inf
container. Dispose of contents/container in accordance with local/regional/national/internati regulations.		
pose in a	accordance with all applicable regulations.	
		en the user, the producer and the waste
st: Refer	rence	
	U076	
7)	U037	
Chlorobenzene (CAS 108-90-7) Methanol (CAS 67-56-1)		
	U045	
	posal coi st: Refe i &S 79-34- (4-3) 7) ;pose of i	(4-3) U076 U225 7) U037 U154

productsproduct residues. This material and its container must be disposed of in a safe manner (see:
Disposal instructions).Contaminated packagingEmpty containers should be taken to an approved waste handling site for recycling or disposal.
Since emptied containers may retain product residue, follow label warnings even after container is
emptied.

14. Transport information

DOT

DOT	
UN number	UN1230
UN proper shipping name	Methanol, solution
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II
	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
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1(PGI, II)
Packing group	
Environmental hazards	No.
ERG Code	3L
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo	Allowed.
aircraft	Allowed.
Cargo aircraft only	Allowed.
IMDG	,
UN number	UN1230
UN proper shipping name	METHANOL SOLUTION
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1(PGI, II)
Packing group	
Environmental hazards	
Marine pollutant	No.
EmS	F-E. S-D
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not available.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	



15. Regulatory information

d Communication
-

Material name: Volatiles System Performance Check Mix-8260/CLP 198 Version #: 01 Issue date: 10-10-2014 Methyl chloride (CAS 74-87-3)

US. Rhode Island RTK

1,1,2,2-Tetrachloroethane (CAS 79-34-5) 1,1-Dichloroethane (CAS 75-34-3) Bromoform (CAS 75-25-2) Chlorobenzene (CAS 108-90-7) Methanol (CAS 67-56-1) Methyl chloride (CAS 74-87-3)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

•		
1,1,2,2-Tetrachloroethane (CAS 79-34-5)	Listed: July 1, 1990	
1,1-Dichloroethane (CAS 75-34-3)	Listed: January 1, 1990	
Bromoform (CAS 75-25-2)	Listed: April 1, 1991	
US - California Proposition 65 - CRT: Listed d	ate/Developmental toxin	
Methanol (CAS 67-56-1)	Listed: March 16, 2012	
Methyl chloride (CAS 74-87-3)	Listed: March 10, 2000	
US - California Proposition 65 - CRT: Listed date/Male reproductive toxin		
Methyl chloride (CAS 74-87-3)	Listed: August 7, 2009	

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
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	10-10-2014
Version #	01
NFPA ratings	Health: 2 Flammability: 3 Instability: 0

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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