### SAFETY DATA SHEET



#### 1. Identification

**Product identifier BTEX Mixture** 

Other means of identification

M-BTEX1M2 Item

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** 

Toll Free 800-452-9994 **Telephone** 

Direct 610-692-3026

Website www.chemservice.com info@chemservice.com E-mail

Chemtrec US 800-424-9300 **Emergency phone number** 

> 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 Reproductive toxicity Category 2 Specific target organ toxicity, single exposure Category 1 Specific target organ toxicity, repeated Category 1

exposure

**Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** 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.

**Precautionary statement** Prevention

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

Material name: BTEX Mixture M-BTEX1M2 Version #: 02 Revision date: 09-06-2016 Issue date: 07-28-2014

protection/face protection.

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.

0.88% of the mixture consists of component(s) of unknown acute oral toxicity. 0.9% of the mixture consists of component(s) of unknown acute dermal toxicity. 0.9% of the mixture consists of component(s) of unknown acute inhalation toxicity.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	name Common name and synonyms		%	
Methanol		67-56-1	99.88	
Benzene		71-43-2	0.02	
Ethylbenzene		100-41-4	0.02	
m-Xylene		108-38-3	0.02	
o-Xylene		95-47-6	0.02	
p-Xylene		106-42-3	0.02	
Toluene		108-88-3	0.02	

#### 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

Ingestion

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. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without

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.

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 Material name: BTEX Mixture
 SDS US

 M-BTEX1M2
 Version #: 02
 Revision date: 09-06-2016
 Issue date: 07-28-2014
 2 / 15

## 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

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures 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 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.

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. 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.

**Environmental precautions** 

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.

# 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. 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).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	5 ppm	
	TWA	1 ppm	
JS. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.10	000)	
Components	Туре	Value	
Ethylbenzene (CAS	PEL	435 mg/m3	
100-41-4)			
		100 ppm	
Methanol (CAS 67-56-1)	PEL	260 mg/m3	
		200 ppm	
m-Xylene (CAS 108-38-3)	PEL	435 mg/m3	
		100 ppm	
o-Xylene (CAS 95-47-6)	PEL	435 mg/m3	
		100 ppm	
p-Xylene (CAS 106-42-3)	PEL	435 mg/m3	
		100 ppm	
US. OSHA Table Z-2 (29 CFR 1910	•		
Components	Туре	Value	
Benzene (CAS 71-43-2)	Ceiling	25 ppm	
	TWA	10 ppm	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
,	TWA	0.5 ppm	
Ethylbenzene (CAS	TWA	20 ppm	
100-41-4)			
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
m-Xylene (CAS 108-38-3)	STEL	150 ppm	
	TWA	100 ppm	
o-Xylene (CAS 95-47-6)	STEL	150 ppm	
	TWA	100 ppm	
o-Xylene (CAS 106-42-3)	STEL	150 ppm	
	TWA	100 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	1 ppm	
,	TWA	0.1 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
Methanol (CAS 67-56-1)	STEL	325 mg/m3	
•		250 ppm	
	TWA		

Material name: BTEX Mixture

M-BTEX1M2 Version #: 02 Revision date: 09-06-2016 Issue date: 07-28-2014

Components	Туре	Value	
		200 ppm	
m-Xylene (CAS 108-38-3)	STEL	655 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
o-Xylene (CAS 95-47-6)	STEL	655 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
p-Xylene (CAS 106-42-3)	STEL	655 mg/m3	
,		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	
,		150 ppm	
	TWA	375 mg/m3	

100 ppm

#### **Biological limit values**

ACGIH Biological Exposu Components	ıre Indices Value	Determinant	Specimen	Sampling Time
Benzene (CAS 71-43-2)	25 μg/g	S-Phenylmerca pturic acid	Creatinine in urine	*
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
m-Xylene (CAS 108-38-3)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
o-Xylene (CAS 95-47-6)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
p-Xylene (CAS 106-42-3)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

#### US - California OELs: Skin designation

Benzene (CAS 71-43-2)

Methanol (CAS 67-56-1)

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

#### US - Minnesota Haz Subs: Skin designation applies

Methanol (CAS 67-56-1)

Toluene (CAS 108-88-3)

Skin designation applies.
Skin designation applies.

#### US - Tennessee OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

#### US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2)

Can be absorbed through the skin.

Methanol (CAS 67-56-1)

Can be absorbed through the skin.

#### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Material name: BTEX Mixture sps us

M-BTEX1M2 Version #: 02 Revision date: 09-06-2016 Issue date: 07-28-2014

### Appropriate engineering

controls

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.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Chemical re

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapor cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Physical stateLiquid.FormLiquid.

ColorNot available.OdorNot available.Odor thresholdNot available.pHNot 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 applicable.

Upper/lower flammability or explosive 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 densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 867.2 °F (464 °C) estimated

Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 0.7866 g/cm3 estimated

**Explosive properties** Not explosive.

Flammability class Flammable IB estimated

Oxidizing properties

Percent volatile

Specific gravity

VOC (Weight %)

Not oxidizing.

100 % estimated

0.79 estimated

100 % estimated

#### 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardousHazardous polymerization does not occur.

reactions

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 contactToxic in contact with skin.Eye contactCauses serious eye irritation.

**Ingestion** Toxic if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

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
Benzene (CAS 71-43-2)		

-

Acute Dermal

LD50 Guinea pig; Rabbit > 9.4 ml/kg, 24 Hours

Inhalation

LC50 Mouse 9980 ppm

Vapor

LC50 Rat 43767 mg/m3, 4 Hours

13700 ppm, 4 Hours

LC50 Rat 10000 ppm, 7 Hours

Oral

LD50 Mouse 4700 mg/kg

Rat > 2000 mg/kg

Ethylbenzene (CAS 100-41-4)

Acute Dermal

LD50 Rabbit 17800 mg/kg

17.8 ml/kg, 24 Hours

Inhalation

Vapor

LC50 Mouse > 8000 ppm, 20 Minutes

Rat 4000 ppm

 Material name: BTEX Mixture
 SDS US

 M-BTEX1M2
 Version #: 02
 Revision date: 09-06-2016
 Issue date: 07-28-2014
 7 / 15

Components	Species	Test Results
Oral	D-4	0500 mm/le
LD50	Rat	3500 mg/kg
Methanol (CAS 67-56-1)		
<u>Acute</u> Dermal		
LD50	Rabbit	15800 mg/kg
Inhalation		5 5
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
m-Xylene (CAS 108-38-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	12126 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i> LC50	Mouse	5267 ppm, 6 Hours
2000	Rat	6700 ppm, 4 Hours
	rec	5984 ppm, 6 Hours
Oral		3304 ppm, o riours
LD50	Mouse	1590 mg/kg
	Rat	6631 mg/kg
o-Xylene (CAS 95-47-6)		3 3
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 ml/kg, 4 Hours
		> 43 g/kg
Inhalation		
LC50	Mouse	4595 ppm, 6 Hours
	Rat	6350 ppm, 4 Hours
Vapor		
LC50	Rat	4330 ppm, 6 Hours
Oral	Maria	F0F4 #
LD50	Mouse	5251 mg/kg
	Rat	3523 mg/kg

Material name: BTEX Mixture sps us

Components	Species	Test Results
		10 ml/kg
p-Xylene (CAS 106-42-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 ml/kg, 4 Hours
		> 43 g/kg
Inhalation		
LC50	Mouse	3907 ppm, 6 Hours
Vapor		
LC50	Rat	5922 ppm, 4 Hours
		4591 ppm, 6 Hours
Oral		•••
LD50	Mouse	1590 mg/kg
	Rat	3523 mg/kg
Toluene (CAS 108-88-3)		55 <u>2</u> 5 mg ng
Acute		
<u>Dermal</u>		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
		14.1 ml/kg
Inhalation		
LC50	Mouse	5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
	Nat	
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
Vapor		
LC50	Rat	25.7 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
		2.6 g/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Causes serious eye irritation.

**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

Benzene (CAS 71-43-2) 1 Carcinogenic to humans.

Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

m-Xylene (CAS 108-38-3)

o-Xylene (CAS 95-47-6)

p-Xylene (CAS 106-42-3)

Toluene (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.

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

Benzene (CAS 71-43-2) Known To Be Human Carcinogen.

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

Benzene (CAS 71-43-2)

Cance

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.

	' '	3 1 1	8 8
Components		Species	Test Results
Benzene (CAS 71-43-2	2)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	8.76 - 15.6 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	7.2 - 11.7 mg/l, 96 hours
Ethylbenzene (CAS 10	00-41-4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
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
m-Xylene (CAS 108-38	8-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	2.81 - 5 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.4 mg/l, 96 hours
o-Xylene (CAS 95-47-	6)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.78 - 2.51 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	5.59 - 11.6 mg/l, 96 hours
p-Xylene (CAS 106-42	2-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	3.55 - 6.31 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.6 mg/l, 96 hours
Toluene (CAS 108-88-	-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours

<sup>\*</sup> 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** 

M-BTEX1M2 Version #: 02 Revision date: 09-06-2016 Issue date: 07-28-2014

Material name: BTEX Mixture

Partition coefficient n-octanol / water (log Kow)

2.13 Benzene Ethylbenzene 3.15 Methanol -0.773.2 m-Xylene o-Xylene 3.12 p-Xylene 3.15 Toluene 2.73

No data available. Mobility in soil

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.

Dispose in accordance with all applicable regulations. Local disposal 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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### 14. Transport information

DOT

UN1230 **UN number** 

UN proper shipping name

Transport hazard class(es)

Methanol, solution (Methanol RQ = 5006 LBS)

3 Class Subsidiary risk 3 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IB2, T7, TP2 Special provisions

Packaging exceptions 150 Packaging non bulk 202 Packaging bulk 242

IATA

**UN** number UN1230

**UN** proper shipping name Methanol solution (Methanol)

Transport hazard class(es)

Class

Subsidiary risk 6.1(PGI, II)

П **Packing group Environmental hazards** No. **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo Allowed.

aircraft

Cargo aircraft only Allowed.

**IMDG** 

**UN** number UN1230

UN proper shipping name METHANOL SOLUTION (Methanol)

Transport hazard class(es)

Class 3

Subsidiary risk 6.1(PGI, II)

Packing group Ш

Material name: BTEX Mixture

**Environmental hazards** 

Marine pollutant No. EmS F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

DOT



#### IATA; IMDG



#### 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

 Benzene (CAS 71-43-2)
 Listed.

 Ethylbenzene (CAS 100-41-4)
 Listed.

 Methanol (CAS 67-56-1)
 Listed.

 m-Xylene (CAS 108-38-3)
 Listed.

 o-Xylene (CAS 95-47-6)
 Listed.

 p-Xylene (CAS 106-42-3)
 Listed.

 Toluene (CAS 108-88-3)
 Listed.

SARA 304 Emergency release notification

Not regulated.

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

Benzene (CAS 71-43-2) Cancer

Central nervous system

Blood Aspiration Skin Eve

respiratory tract irritation

Flammability

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Material name: BTEX Mixture

M-BTEX1M2 Version #: 02 Revision date: 09-06-2016 Issue date: 07-28-2014

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Methanol	67-56-1	99.88	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Methanol (CAS 67-56-1) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

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

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

## Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Toluene (CAS 108-88-3) 6594

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3) 35 %WV

#### **DEA Exempt Chemical Mixtures Code Number**

Toluene (CAS 108-88-3) 594

#### **US** state regulations

#### US - New Jersey RTK - Substances: Listed substance

Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Methanol (CAS 67-56-1) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

#### US - Pennsylvania RTK - Hazardous Substances: Special hazard

Benzene (CAS 71-43-2)

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

## US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Methanol (CAS 67-56-1) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3)

p-Aylerie (CAS 100-42-3

Toluene (CAS 108-88-3)

#### **US. Massachusetts RTK - Substance List**

Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Methanol (CAS 67-56-1) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

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

Benzene (CAS 71-43-2)

Material name: BTEX Mixture

Ethylbenzene (CAS 100-41-4) Methanol (CAS 67-56-1) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

#### US. Pennsylvania RTK - Hazardous Substances

Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Methanol (CAS 67-56-1) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Methanol (CAS 67-56-1) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

#### **US. Rhode Island RTK**

Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4) Methanol (CAS 67-56-1) m-Xylene (CAS 108-38-3) o-Xylene (CAS 95-47-6) p-Xylene (CAS 106-42-3) Toluene (CAS 108-88-3)

#### **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

Benzene (CAS 71-43-2) Listed: February 27, 1987 Ethylbenzene (CAS 100-41-4) Listed: June 11, 2004

#### US - California Proposition 65 - CRT: Listed date/Developmental toxin

 Benzene (CAS 71-43-2)
 Listed: December 26, 1997

 Methanol (CAS 67-56-1)
 Listed: March 16, 2012

 Toluene (CAS 108-88-3)
 Listed: January 1, 1991

#### US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3) Listed: August 7, 2009

#### US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997

#### 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)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
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

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

· ...

\*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** 07-28-2014 **Revision date** 09-06-2016

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.

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**Revision Information** 

This document has undergone significant changes and should be reviewed in its entirety.