# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** 2.1 VOC Industrial Epoxy Sealer Black

Other means of identification

Product code MFI-590B (all sizes) Recommended use Primer Sealer None known. **Recommended restrictions** 

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

MFI Systems™ a division of Teknol Inc. Company name

**Address** 5751 N. Webster Street

Dayton, Ohio 45414

**United States** 

**TECH SUPPORT Telephone** 

> **SALES** 937-890-6547 **PHONE** 800-257-6547

937-890-6547

Website www.mfisystems.com

E-mail info@rubber-seal.net

EMERGENCY 24 Hrs. 800-424-9300 **Emergency phone number** 

(Chemtrec)

# 2. Hazard(s) identification

**Physical hazards** Flammable liquids Category 2 **Health hazards** Acute toxicity, oral Category 4 Acute toxicity, dermal Category 4 Acute toxicity, inhalation Category 3 Serious eye damage/eye irritation Category 2A Sensitization, skin Category 1 Carcinogenicity Category 2 Specific target organ toxicity, repeated Category 1 exposure

**Environmental hazards** Hazardous to the aquatic environment, acute

Hazardous to the aquatic environment,

long-term hazard

Not classified. **OSHA** defined hazards

Label elements



Signal word Danger

Highly flammable liquid and vapor. Harmful if swallowed. Harmful in contact with skin. May cause **Hazard statement** an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. Suspected of causing

cancer. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life.

Category 2

Category 3

Harmful to aquatic life with long lasting effects.

#### **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. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

If swallowed: Call a poison center/doctor if you feel unwell. 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 skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash 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

84.2% of the mixture consists of component(s) of unknown acute oral toxicity. 85.13% of the mixture consists of component(s) of unknown acute dermal toxicity. 54.68% of the mixture consists of component(s) of unknown acute inhalation toxicity. 80.68% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 79.28% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
parachlorobenzotriflouride		98-56-6	25 - < 45
Barium Sulfate		7727-43-7	5 - < 25
Talc		14807-96-6	5 - < 25
Xylene		1330-20-7	5 - < 15
Acetone		67-64-1	0 - < 10
4-4-Isopropylidene Phenol Epich		25068-38-6	0 - < 5
Butyl Cellosolve/Glycol Ether EB		111-76-2	0 - < 5
Methyl Isobutyl Ketone		108-10-1	0 - < 5
Carbon Black		1333-86-4	0< 1
Crystalline Quartz		14808-60-7	0< 1
Ethylbenzene		100-41-4	0< 1
Glycol Ether PM Acetate		108-65-6	0< 1
N-Butyl Acetate		123-86-4	0< 1
Silicon dioxide		112945-52-5	0< 1
Other components below reportable level	s		10 - < 20

<sup>\*</sup>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	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. 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

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

**General information** 

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

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.

Take off all contaminated clothing immediately. 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

Water fog. Foam. 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.

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. Prevent product from entering drains. 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 release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. 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. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. 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. Avoid release to the environment. 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	Form
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
,		1000 ppm	
Barium Sulfate (CAS 7727-43-7)	PEL	5 mg/m3	Respirable fraction
ŕ		15 mg/m3	Total dust.
Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)	PEL	240 mg/m3	
,		50 ppm	
Carbon Black (CAS 1333-86-4)	PEL	3.5 mg/m3	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
,		100 ppm	
Methyl Isobutyl Ketone (CAS 108-10-1)	PEL	410 mg/m3	
,		100 ppm	
N-Butyl Acetate (CAS 123-86-4)	PEL	710 mg/m3	
,		150 ppm	
Xylene (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	
US. OSHA Table Z-3 (29 CFR 1910	.1000)		
Components	Туре	Value	Form
Crystalline Quartz (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
·		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
Silicon dioxide (CAS 112945-52-5)	TWA	0.8 mg/m3	
•		20 mppcf	

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# **US. OSHA Table Z-3 (29 CFR 1910.1000)**

US. OSHA Table Z-3 (29 CFR 1910 Components	Type	Value	Form
Talc (CAS 14807-96-6)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.
		20 mppcf	•
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Value	es		·
Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Barium Sulfate (CAS 7727-43-7)	TWA	5 mg/m3	Inhalable fraction.
Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)	TWA	20 ppm	
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Crystalline Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Methyl Isobutyl Ketone (CAS 108-10-1)	STEL	75 ppm	
	TWA	20 ppm	
N-Butyl Acetate (CAS	STEL	200 ppm	
123-86-4)			
	TWA	150 ppm	
Гalc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
· · · · · · · · · · · · · · · · · · ·			
	STEL	150 ppm	
	STEL TWA	150 ppm 100 ppm	
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher	TWA mical Hazards		Form
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components	TWA mical Hazards Type	100 ppm  Value	Form
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components	TWA mical Hazards	100 ppm  Value  590 mg/m3	Form
Xylene (CAS 1330-20-7)  JS. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)	TWA mical Hazards Type TWA	100 ppm  Value  590 mg/m3 250 ppm	
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS	TWA mical Hazards Type	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3	Respirable.
Xylene (CAS 1330-20-7)  JS. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)	TWA mical Hazards Type TWA TWA	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3  10 mg/m3	
Kylene (CAS 1330-20-7)  JS. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol	TWA mical Hazards Type TWA	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3  10 mg/m3 24 mg/m3	Respirable.
Acetone (CAS 1330-20-7)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)	TWA mical Hazards Type  TWA  TWA  TWA	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3 10 mg/m3 24 mg/m3 5 ppm	Respirable.
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)	TWA mical Hazards Type TWA TWA TWA TWA	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3  10 mg/m3 24 mg/m3 5 ppm 0.1 mg/m3	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7)	TWA mical Hazards Type  TWA  TWA  TWA	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3 10 mg/m3 24 mg/m3 5 ppm	Respirable.
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7) Ethylbenzene (CAS	TWA mical Hazards Type TWA TWA TWA TWA	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3  10 mg/m3 24 mg/m3 5 ppm 0.1 mg/m3	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7) Ethylbenzene (CAS	TWA mical Hazards Type TWA TWA TWA TWA TWA TWA	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3  10 mg/m3 24 mg/m3  5 ppm 0.1 mg/m3 0.05 mg/m3	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7) Ethylbenzene (CAS	TWA mical Hazards Type TWA TWA TWA TWA TWA TWA	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3  10 mg/m3 24 mg/m3  5 ppm 0.1 mg/m3 0.05 mg/m3 545 mg/m3	Respirable. Total
Acetone (CAS 1330-20-7)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7)  Ethylbenzene (CAS	TWA mical Hazards Type  TWA  TWA  TWA  TWA  TWA  TWA  TWA  TW	Value  590 mg/m3 250 ppm 5 mg/m3 10 mg/m3 24 mg/m3 5 ppm 0.1 mg/m3 0.05 mg/m3 545 mg/m3 125 ppm 435 mg/m3	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7) Ethylbenzene (CAS 100-41-4)  Methyl Isobutyl Ketone	TWA mical Hazards Type  TWA  TWA  TWA  TWA  TWA  TWA  TWA  TW	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3 10 mg/m3 24 mg/m3 5 ppm 0.1 mg/m3 0.05 mg/m3 545 mg/m3	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7)  Ethylbenzene (CAS 100-41-4)  Methyl Isobutyl Ketone (CAS 108-10-1)	TWA mical Hazards Type  TWA  TWA  TWA  TWA  TWA  TWA  TWA  TW	100 ppm  Value  590 mg/m3 250 ppm 5 mg/m3  10 mg/m3 24 mg/m3  5 ppm 0.1 mg/m3  0.05 mg/m3  545 mg/m3  125 ppm 435 mg/m3 100 ppm	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7) Ethylbenzene (CAS 100-41-4)  Methyl Isobutyl Ketone	TWA mical Hazards Type  TWA  TWA  TWA  TWA  TWA  TWA  TWA  TW	Value  590 mg/m3 250 ppm 5 mg/m3 10 mg/m3 24 mg/m3 5 ppm 0.1 mg/m3 0.05 mg/m3 545 mg/m3 125 ppm 435 mg/m3 100 ppm 300 mg/m3 75 ppm	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7) Ethylbenzene (CAS 100-41-4)  Methyl Isobutyl Ketone	TWA mical Hazards Type  TWA  TWA  TWA  TWA  TWA  TWA  TWA  STEL  TWA  STEL	Value  590 mg/m3 250 ppm 5 mg/m3 10 mg/m3 24 mg/m3 5 ppm 0.1 mg/m3 0.05 mg/m3 545 mg/m3 125 ppm 435 mg/m3 100 ppm 300 mg/m3 75 ppm 205 mg/m3	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7)  Ethylbenzene (CAS 100-41-4)  Methyl Isobutyl Ketone (CAS 108-10-1)	TWA mical Hazards Type  TWA  TWA  TWA  TWA  TWA  TWA  TWA  STEL  TWA  STEL	Value  590 mg/m3 250 ppm 5 mg/m3 10 mg/m3 24 mg/m3 5 ppm 0.1 mg/m3 0.05 mg/m3 545 mg/m3 125 ppm 435 mg/m3 100 ppm 300 mg/m3 75 ppm	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7)  Ethylbenzene (CAS 100-41-4)  Methyl Isobutyl Ketone (CAS 108-10-1)	TWA mical Hazards Type  TWA  TWA  TWA  TWA  TWA  TWA  STEL  TWA  STEL  TWA	Value  590 mg/m3 250 ppm 5 mg/m3 10 mg/m3 24 mg/m3 5 ppm 0.1 mg/m3 0.05 mg/m3 545 mg/m3 125 ppm 435 mg/m3 100 ppm 300 mg/m3 75 ppm 205 mg/m3 50 ppm 950 mg/m3	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7) Ethylbenzene (CAS 100-41-4)  Methyl Isobutyl Ketone	TWA mical Hazards Type  TWA  TWA  TWA  TWA  TWA  TWA  STEL  TWA  STEL  TWA  STEL  TWA  STEL	Value  590 mg/m3 250 ppm 5 mg/m3 10 mg/m3 24 mg/m3 5 ppm 0.1 mg/m3 0.05 mg/m3 545 mg/m3 125 ppm 435 mg/m3 100 ppm 300 mg/m3 75 ppm 205 mg/m3 50 ppm 950 mg/m3	Respirable. Total
Xylene (CAS 1330-20-7)  US. NIOSH: Pocket Guide to Cher Components  Acetone (CAS 67-64-1)  Barium Sulfate (CAS 7727-43-7)  Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)  Carbon Black (CAS 1333-86-4)  Crystalline Quartz (CAS 14808-60-7)  Ethylbenzene (CAS 100-41-4)  Methyl Isobutyl Ketone (CAS 108-10-1)	TWA mical Hazards Type  TWA  TWA  TWA  TWA  TWA  TWA  STEL  TWA  STEL  TWA	Value  590 mg/m3 250 ppm 5 mg/m3 10 mg/m3 24 mg/m3 5 ppm 0.1 mg/m3 0.05 mg/m3 545 mg/m3 125 ppm 435 mg/m3 100 ppm 300 mg/m3 75 ppm 205 mg/m3 50 ppm 950 mg/m3	Respirable. Total

US. NIOSH: Pocket Guide to Chemical Hazards					
Components	Туре	Value	Form		
Silicon dioxide (CAS 112945-52-5)	TWA	6 mg/m3			
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.		
US. Workplace Environmental Ex	cposure Level (WEEL) Guides				
Components	Туре	Value			
Glycol Ether PM Acetate (CAS 108-65-6)	TWA	50 ppm			

#### **Biological limit values**

Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	
Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*	
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*	
Methyl Isobutyl Ketone (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine	*	
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*	

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

#### **Exposure guidelines**

US - California OELs: Skin designation

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)

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

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2) Skin designation applies.

US - Tennessee OELs: Skin designation

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2) Can be absorbed through the skin.

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

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)

Can be absorbed through the skin.

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 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.

Contaminated work clothing should not be allowed out of the workplace.

#### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.
Color Black
Odor Solvent.
Odor threshold Not available.
pH Not available.

 $\begin{array}{ll} \textbf{Melting point/freezing point} & -138.46 \ ^{\circ}\text{F} \ (-94.7 \ ^{\circ}\text{C}) \ \text{estimated} \\ \textbf{Initial boiling point and boiling} & 132.89 \ ^{\circ}\text{F} \ (56.05 \ ^{\circ}\text{C}) \ \text{estimated} \\ \end{array}$ 

range

Flash point -4.0 °F (-20.0 °C) estimated

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

2.6 % estimated

(%)

Flammability limit - upper

12.8 % estimated

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 26.21 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 869 °F (465 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Density2.04 g/cm3 estimatedFlammability classFlammable IB estimatedPercent volatile49.9 w/w % By Weight61.21 v/v % By Volume

Specific gravity 2.04 estimated

**VOC (Weight %)** 1.15 lb/gal (Actual VOC - With Water With Exempts)

2.09 lb/gal (Regulatory VOC - Less Water Less Exempts)
137.62 g/L (Actual VOC - With Water With Exempts)
250.85 g/L (Regulatory VOC - Less Water Less Exempts)

#### 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 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 acids. Acids. Strong oxidizing agents. Aluminum. Halogens. Phosphorus.

**Hazardous decomposition** 

products

reactions

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure by

inhalation.

**Skin contact** Harmful in contact with skin. May cause an allergic skin reaction.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

**Eye contact** Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Toxic if inhaled. Harmful in contact with skin. Harmful if swallowed. May cause an allergic skin

reaction.

**Species Test Results** Components Acetone (CAS 67-64-1) Acute **Dermal** LD50 Rabbit 20000 mg/kg 20 ml/kg Inhalation LC50 Rat 76 mg/l, 4 Hours 50.1 mg/l, 8 Hours Oral LD50 Mouse 3000 mg/kg Rabbit 5340 mg/kg Rat 5800 mg/kg Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2) **Acute Dermal** LD50 Rabbit 400 mg/kg Inhalation LC50 Mouse 700 ppm, 7 Hours Rat 450 ppm, 4 Hours Oral LD50 Guinea pig 1.2 g/kg Mouse 1.2 g/kg Rabbit 0.32 g/kg Rat 560 mg/kg Carbon Black (CAS 1333-86-4) Acute Oral LD50 Rat > 8000 mg/kg Ethylbenzene (CAS 100-41-4) **Acute Dermal** LD50 Rabbit 17800 mg/kg

Material name: 2.1 VOC Industrial Epoxy Sealer Black
MFI-590B (all sizes) Version #: 01 Issue date: 06-21-2016

Components	Species	Test Results
Oral		
LD50	Rat	3500 mg/kg
Methyl Isobutyl Ketone (CAS 1	08-10-1)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 16000 mg/kg
Inhalation		
LC50	Rat	8.2 mg/l, 4 Hours
Oral		
LD50	Rat	2080 mg/kg
N-Butyl Acetate (CAS 123-86-4	4)	
<u>Acute</u>		
Inhalation		
LC50	Wistar rat	160 mg/l, 4 Hours
Oral		
LD50	Rat	14000 mg/kg
Silicon dioxide (CAS 112945-5	2-5)	
<u>Acute</u>		
Oral		
LD50	Mouse	> 15000 mg/kg
	Rat	> 22500 mg/kg
Xylene (CAS 1330-20-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg

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

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)

3 Not classifiable as to carcinogenicity to humans.

Carbon Black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Crystalline Quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

Ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans. Methyl Isobutyl Ketone (CAS 108-10-1) 2B Possibly carcinogenic to humans.

Silicon dioxide (CAS 112945-52-5) 3 Not classifiable as to carcinogenicity to humans. 3 Not classifiable as to carcinogenicity to humans. Xylene (CAS 1330-20-7)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

Crystalline Quartz (CAS 14808-60-7)

Known To Be Human Carcinogen.

Reproductive toxicity

Components in this product have been shown to cause birth defects and reproductive disorders in

laboratory animals.

Specific target organ toxicity -

single exposure

Not classified.

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. May be harmful if absorbed

through skin. Prolonged inhalation may be harmful.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged exposure may cause chronic effects.

# 12. Ecological information

Ecotoxicity	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
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Components		Species	Test Results
Acetone (CAS 67-64-1	)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Barium Sulfate (CAS 7	727-43-7)		
Aquatic			
Crustacea	EC50	Tubificid worm (Tubifex tubifex)	28.61 - 38.03 mg/l, 48 hours
Butyl Cellosolve/Glyco	l Ether EB (CAS 1	11-76-2)	
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 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
Methyl Isobutyl Ketone	e (CAS 108-10-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	492 - 593 mg/l, 96 hours
N-Butyl Acetate (CAS	123-86-4)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	17 - 19 mg/l, 96 hours
Xylene (CAS 1330-20-	-7)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 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

#### Partition coefficient n-octanol / water (log Kow)

Acetone	-0.24
Butyl Cellosolve/Glycol Ether EB	0.83
Ethylbenzene	3.15
Methyl Isobutyl Ketone	1.31
N-Butyl Acetate	1.78
Xylene	3.12 - 3.2

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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow **Disposal instructions** 

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. 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

The following transportation information is provided based on the manufacturer's interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking, and labeling prior to offering for transport.

DOT

**UN** number UN1263

**UN proper shipping name** Paint related material including paint thinning, drying, removing, or reducing compound

Transport hazard class(es)

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

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

149, B52, IB2, T4, TP1, TP8, TP28 Special provisions

150 Packaging exceptions 173 Packaging non bulk Packaging bulk 242

IATA

**UN** number UN1263

**UN proper shipping name** 

Transport hazard class(es)

**Class** 3 Subsidiary risk П Packing group **Environmental hazards** No. **ERG Code** 

Other information

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

Paint related material (including paint thinning or reducing compounds)

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only Allowed.

**IMDG** 

**UN** number UN1263

**UN** proper shipping name PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid

lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards** 

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

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

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.

One or more components are not listed on TSCA.

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

Not regulated.

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

Acetone (CAS 67-64-1)	Listed.
Barium Sulfate (CAS 7727-43-7)	Listed.
Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)	Listed.
Ethylbenzene (CAS 100-41-4)	Listed.
Methyl Isobutyl Ketone (CAS 108-10-1)	Listed.
N-Butyl Acetate (CAS 123-86-4)	Listed.
Xylene (CAS 1330-20-7)	Listed.

#### SARA 304 Emergency release notification

Not regulated.

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

Not listed.

#### 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

# SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

#### SARA 313 (TRI reporting)

CAS number	% by wt.
1330-20-7	5 - < 15
111-76-2	0 - < 5
108-10-1	0 - < 5
	1330-20-7 111-76-2

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Ethylbenzene100-41-40< 1</td>

#### Other federal regulations

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

Ethylbenzene (CAS 100-41-4)

Methyl Isobutyl Ketone (CAS 108-10-1)

Xylene (CAS 1330-20-7)

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

Not regulated.

Safe Drinking Water Act Not

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

Acetone (CAS 67-64-1) 6532 Methyl Isobutyl Ketone (CAS 108-10-1) 6715

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

Acetone (CAS 67-64-1) 35 %WV Methyl Isobutyl Ketone (CAS 108-10-1) 35 %WV

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

Acetone (CAS 67-64-1) 6532 Methyl Isobutyl Ketone (CAS 108-10-1) 6715

#### **US state regulations**

#### 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))

Acetone (CAS 67-64-1)

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)

Carbon Black (CAS 1333-86-4) Crystalline Quartz (CAS 14808-60-7)

Ethylbenzene (CAS 100-41-4)

Methyl Isobutyl Ketone (CAS 108-10-1)

Talc (CAS 14807-96-6) Xylene (CAS 1330-20-7)

# US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Barium Sulfate (CAS 7727-43-7)

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)

Carbon Black (CAS 1333-86-4)

Crystalline Quartz (CAS 14808-60-7)

Ethylbenzene (CAS 100-41-4)

Methyl Isobutyl Ketone (CAS 108-10-1)

N-Butyl Acetate (CAS 123-86-4)

Silicon dioxide (CAS 112945-52-5)

Talc (CAS 14807-96-6)

Xylene (CAS 1330-20-7)

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

Acetone (CAS 67-64-1)

Barium Sulfate (CAS 7727-43-7)

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)

Carbon Black (CAS 1333-86-4)

Crystalline Quartz (CAS 14808-60-7)

Ethylbenzene (CAS 100-41-4)

Methyl Isobutyl Ketone (CAS 108-10-1)

N-Butyl Acetate (CAS 123-86-4)

Talc (CAS 14807-96-6)

Xylene (CAS 1330-20-7)

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

Acetone (CAS 67-64-1)

Barium Sulfate (CAS 7727-43-7)

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)

Carbon Black (CAS 1333-86-4) Crystalline Quartz (CAS 14808-60-7) Ethylbenzene (CAS 100-41-4) Methyl Isobutyl Ketone (CAS 108-10-1)

N-Butyl Acetate (CAS 123-86-4) Silicon dioxide (CAS 112945-52-5)

Talc (CAS 14807-96-6) Xylene (CAS 1330-20-7)

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

Acetone (CAS 67-64-1)

Butyl Cellosolve/Glycol Ether EB (CAS 111-76-2)

Ethylbenzene (CAS 100-41-4)

Methyl Isobutyl Ketone (CAS 108-10-1)

N-Butyl Acetate (CAS 123-86-4)

Xylene (CAS 1330-20-7)

#### **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

Carbon Black (CAS 1333-86-4)

Crystalline Quartz (CAS 14808-60-7)

Ethylbenzene (CAS 100-41-4)

Methyl Isobutyl Ketone (CAS 108-10-1)

Listed: February 21, 2003

Listed: October 1, 1988

Listed: June 11, 2004

Listed: November 4, 2011

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

Inventory name

Methyl Isobutyl Ketone (CAS 108-10-1) Listed: March 28, 2014

#### **International Inventories**

Country(s) or region

		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	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	No

<sup>\*</sup>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** 06-21-2016

Version # 01

**Disclaimer** MFI Systems cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

SDS US

On inventory (yes/no)\*