

SAFETY DATA SHEET

1. Identification

1. Identification				
Product identifier	TOLUENE, VERITAS® ULTIMATE			
Other means of identification				
Product code	5577			
CAS number	108-88-3			
Synonyms	METHYLBENZENE			
Recommended use	•	professional, scientific and technical activities: other professional, scientific and technical activities solvent technical function of substance		
Recommended restrictions	None known.			
Manufacturer/Importer/Supp	olier/Distributor informatio	on		
Manufacturer				
Company name Address	GFS Chemicals, Inc. 800 Kaderly Drive Columbus, OH 43228 United States			
Telephone	Phone Toll Free Fax	740-881-5501 800-858-9682 740-881-5989		
Website E-mail	www.gfschemicals.com service@gfschemicals.com			
Emergency phone number	Emergency Assistance	Chemtrec 800-4	24-9300	
2. Hazard(s) identificati	on			
Physical hazards	Flammable liquids		Category 2	
Health hazards	Acute toxicity, oral		Category 4	
	Skin corrosion/irritation		Category 2	
	Serious eve damage/eve irr	itation	Category 2A	

	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 1A
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		



Signal word Hazard statement

Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. May damage fertility or the unborn child. Toxic to aquatic life. Toxic 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. Use explosion-proof electrical/ventilating/lighting equipment. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment.
Response	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. 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. If exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage. If eye irritation persists: Get medical advice/attention.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
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	None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
TOLUENE	METHYLBENZENE	108-88-3	100

*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. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. 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 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	5
Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may

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	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapor.
6. Accidental release mea	Isures
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). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Should not be released into the environment. Clean up in accordance with all applicable regulations. Large Spills: Dike the spilled material, where this is possible. 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: 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. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

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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 taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. 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
Conditions for safe storage, including any incompatibilities	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. 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 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). Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/pe	rsonal protection

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-2 (29 Material	CFR 1910.100	00) Type		Va	lue	
TOLUENE (CAS 108-88-3)		Ceilin	g	300) ppm	
		TWA		200) ppm	
US. ACGIH Threshold Limit Values Material		Туре		Va	lue	
TOLUENE (CAS 108-88-3)		TWA		20 ppm		
US. NIOSH: Pocket Guid Material	le to Chemical	Hazard Type	-	Va	lue	
TOLUENE (CAS 108-88-3)		STEL		560) mg/m3	
				150	150 ppm	
		TWA		375	5 mg/m3	
				100) ppm	
logical limit values						
ACGIH Biological Expos						
Material	Value		Determinant	Specimen	Sampling Time	
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	*	
* - For sampling details, pl	ease see the sou	urce docu	iment.			
oosure guidelines						
US - California OELs: Sk	in designation	I				
TOLUENE (CAS 108-88-3)			Can be absorbed through the skin.			

US - Minnesota Haz Subs: Skin designation applies

TOLUENE (CAS 108-88-3) Skin designation applies. Appropriate engineering 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, controls 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 and safety shower. Individual protection measures, such as personal protective equipment Eye/face protection Chemical goggles are recommended. Skin protection Hand protection Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other If engineering controls do not maintain airborne concentrations below recommended exposure **Respiratory protection** limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor cartridge. **Thermal hazards** Wear appropriate thermal protective clothing, when necessary. **General hygiene** Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the considerations material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

· ·	
Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Aromatic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-138.82 °F (-94.9 °C)
Initial boiling point and boiling range	231.08 °F (110.6 °C)
Flash point	40.0 °F (4.4 °C) Closed Cup 60.8 °F (16.0 °C) Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	1.3 %
Flammability limit - upper (%)	7 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	3.1
Relative density	Not available.
Solubility(ies)	
Solubility (water)	0.7 g/l at 74°F
Partition coefficient (n-octanol/water)	2.73
Auto-ignition temperature	896 °F (480 °C)
Decomposition temperature	Not available.
Viscosity	Not available.

Other information	
Density	0.86 g/cm3 estimated at 20 °C
Dynamic viscosity	0.27 mPa.s (212 °F (100 °C))
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Flash point class	Flammable IB
Heat of combustion (NFPA 30B)	28.4 kJ/g
Kinematic viscosity	0.3127 mm ² /s estimated
Molecular formula	C7-H8
Molecular weight	92.14 g/mol
Oxidizing properties	Not oxidizing.
Percent volatile	100 %
Specific gravity	0.86 at 20 °C
Surface tension	28.93 mN/m (68 °F (20 °C))
VOC	100 %

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	Keep away from heat, hot surfaces, 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	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

May be fatal if swallowed and enters airways.

Product	Species	Test Results
TOLUENE (CAS 108-88-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	12120 mg/kg
Inhalation		
LC50	Mouse	5320 mg/l, 8 Hours
		400 mg/l, 24 Hours
	Rat	26700 mg/l, 1 Hours
Oral		
LD50	Rat	2600 - 7500 mg/kg
		5000 mg/kg
		2.6 g/kg
Other		5. 5
LD50	Rat	1960 mg/kg

Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization	on and a second s		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogenicity to humans.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
TOLUENE (CAS 108-88-3) OSHA Specifically Regulate	3 Not classifiable as to carcinogenicity to humans. ed Substances (29 CFR 1910.1001-1052)		
Not regulated. US. National Toxicology Pr Not listed.	ogram (NTP) Report on Carcinogens		
Reproductive toxicity	May damage fertility or the unborn child.		
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.		
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	May be fatal if swallowed and enters airways.		
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.		
12. Ecological informatio	n		
Ecotoxicity	Toxic to aquatic life with long lasting effects.		

Ecoloxicity Toxic to aquatic life with long lasting en		aqualic life with long lasting effects.	
Product		Species	Test Results
TOLUENE (CAS 108-88-3)	1		
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

Persistence and degradability None known.

Bioaccumulative potential

Partition coefficient n-o	ctanol / water (log Kow)
2.73	
Mobility in soil	No data available.
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
US RCRA Hazardous Waste	U List: Reference	
TOLUENE (CAS 108-88-3)	U220	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

14. Transport information

DOT **UN number** UN1294 UN proper shipping name Toluene Transport hazard class(es) Class 3 Subsidiary risk _ 3 Label(s) Packing group Π Special precautions for Read safety instructions, SDS and emergency procedures before handling. user **Special provisions** IB2, T4, TP1 **Packaging exceptions** 150 **Packaging non bulk** 202 **Packaging bulk** 242 ΙΑΤΑ **UN number** UN1294 UN proper shipping name Toluene Transport hazard class(es) Class 3 Subsidiary risk -Packing group Π **Environmental hazards** No **ERG Code** 3L Special precautions for Read safety instructions, SDS and emergency procedures before handling. user **Other information** Passenger and cargo Allowed with restrictions. aircraft Cargo aircraft only Allowed with restrictions. IMDG **UN number** UN1294 UN proper shipping name TOLUENE Transport hazard class(es) Class 3 Subsidiary risk Packing group Π **Environmental hazards** Marine pollutant No. EmS F-E, S-D Special precautions for Read safety instructions, SDS and emergency procedures before handling. user Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code DOT



ΤΔΤΔ·	IMDG
	TUDO



IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

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)

Listed.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

TOLUENE (CAS 108-88-3)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Aspiration hazard Hazard not otherwise classified (HNOC)

SARA 313 (TRI reporting)

Chemical name		CAS number	% by wt.
TOLUENE		108-88-3	100
Other federal regulations			
Clean Air Act (CAA) Sectio	n 112 Hazardous Air P	ollutants (HAPs) Lis	st
TOLUENE (CAS 108-88-3)		
Clean Air Act (CAA) Sectio	n 112(r) Accidental Re	elease Prevention (4	0 CFR 68.130)
Not regulated.			
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Hazardous substance Priority pollutant Toxic pollutant		
Safe Drinking Water Act (SDWA)	1 mg/l 1 mg/l		
Drug Enforcement Adu and Chemical Code Nu		t 2, Essential Chem	icals (21 CFR 1310.02(b) and 1310.04(f)(2)
TOLUENE (CAS 108-	88-3)	6594	
Drug Enforcement Adr	ninistration (DEA). Lis	t 1 & 2 Exempt Che	mical Mixtures (21 CFR 1310.12(c))
TOLUENE (CAS 108-	88-3)	35 %WV	
DEA Exempt Chemical	Mixtures Code Numbe	er	
TOLUENE (CAS 108-	88-3)	594	
US state regulations			

California Proposition 65

WARNING: This product can expose you to TOLUENE, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Developmental toxin

Listed: January 1, 1991

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

TOLUENE (CAS 108-88-3)

TOLUENE (CAS 108-88-3)

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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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 Revision date Version #	February-19-2014 August-02-2018 02
Disclaimer	The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. GFS Chemicals, Inc. 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.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.