

SAFETY DATA SHEET

1. Identification

1. Identification			
Product identifier	p-XYLENE, 99%		
Other means of identification			
Product code	5477		
Synonyms	1,4-Dimethylbenzene * 4-XYLENE		
Recommended use	professional, scientific and technica	al activities: other professional, scientific and technical activities	
Recommended restrictions	None known.		
Manufacturer/Importer/Suppl	ier/Distributor information		
Manufacturer			
Company name Address	GFS Chemicals, Inc. P.O. Box 245 Powell, OH 43065 United States		
Telephone		ł0-881-5501	
-		00-858-9682	
		40-881-5989	
Website	www.gfschemicals.com		
E-mail	service@gfschemicals.com		
Emergency phone number	Emergency Assistance Ch	emtrec 800-424-9300	
2. Hazard(s) identificatio	n		
Physical hazards	Flammable liquids	Category 3	
Health hazards	Acute toxicity, dermal	Category 4	
	Acute toxicity, inhalation	Category 4	
	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 2	
	Specific target organ toxicity, repeated exposure	ated Category 1	
	Aspiration hazard	Category 1	
Environmental hazards	Hazardous to the aquatic environm hazard	ent, acute Category 2	
	Hazardous to the aquatic environm long-term hazard	ent, Category 2	
OSHA defined hazards	Not classified.		
Label elements			
		¥2	
Signal word	Danger		
Hazard statement	skin. Causes skin irritation. Causes	e fatal if swallowed and enters airways. Harmful in contact with serious eye irritation. Harmful if inhaled. Causes damage to ited exposure. Toxic to aquatic life. Toxic to aquatic life with	
Precautionary statement			
Ducastica	Kana autor fuana haat/anaulua/anau	flammer /het en uferene . Ne en elvine . Kenn en heinen hieleth.	

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

Prevention

Response	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. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Collect spillage.
Storage	Store in a well-ventilated place. Keep cool. 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	%
p-XYLENE	1,4-Dimethylbenzene	106-42-3	100
-	4-XYLENE		

*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. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. 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	Abdominal pain. Dizziness. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Irritation of nose and throat. 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 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 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. Flammable liquid and vapor.

6 Accidental release measures

V. Accidental release me	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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. The product is immiscible with water and will spread on the water surface. 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. Prevent entry into waterways, sewers, basements or confined areas.
	Large Spills: Stop leak if you can do so without risk. Use water spray to reduce vapors or divert vapor cloud drift. 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. Clean contaminated surface thoroughly. Clean up in accordance with all applicable regulations. 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	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. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Wash contaminated clothing before reuse.
	For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".
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

US. ACGIH Threshold Limit Values			
Material	Туре	Value	
p-XYLENE (CAS 106-42-3)	STEL	150 ppm	
	TWA	100 ppm	

US. NIOSH: Pocket Guid Material	Туре		Va	lue
p-XYLENE (CAS 106-42-3)	STEL			5 mg/m3
				0 ppm
	TWA			5 mg/m3
			100) ppm
iological limit values US. ACGIH. BEIs. Biologi	ical Exposuro Indisos			
Material	Value	Determinant	Specimen	Sampling Time
p-XYLENE (CAS 106-42-3)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
* - For sampling details, ple	ase see the source docu	iment.		
Appropriate engineering controls	changes per hour) s use process enclosu levels below recomm	hould be used. Ver res, local exhaust v nended exposure lin acceptable level. I	itilation rates sho entilation, or oth mits. If exposure	Good general ventilation (typically 10 air ould be matched to conditions. If applicable, her engineering controls to maintain airborne e limits have not been established, maintain es and emergency shower must be available
ndividual protection measu	res, such as personal	protective equip	ment	
Eye/face protection	Chemical respirator	with organic vapor	cartridge and fu	II facepiece.
Skin protection				
Hand protection	Wear appropriate ch	emical resistant glo	oves.	
Other	Wear appropriate ch	nemical resistant clo	othing. Use of ar	impervious apron is recommended.
Respiratory protection	Chemical respirator	with organic vapor	cartridge and fu	II facepiece.
Thermal hazards	Wear appropriate th	ermal protective cl	othing, when ne	cessary.
General hygiene considerations		al and before eating	g, drinking, and/	nal hygiene measures, such as washing after or smoking. Routinely wash work clothing
9. Physical and chemic	al properties			
Appearance	Clear.			
Physical state	Liquid.			
Form	Liquid.			
Color	Colorless.			
)dor	Aromatic.			
Ddor threshold	Not available.			
Н	Not available.			
Melting point/freezing point	: 55.85 °F (13.25 °C)			

Initial boiling point and boiling range	280.81 °F (138.23 °C)
Flash point	77.0 °F (25.0 °C) Closed Cup
Evaporation rate	Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits Flammability limit - lower Not available

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	1.18 kPa at 25 °C
Vapor density	3.7
Relative density	Not available.
Solubility(ies) Solubility (water)	0.2 g/l

	Insoluble in water
Partition coefficient (n-octanol/water)	3.2
Auto-ignition temperature	982.4 °F (528 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.861 g/cm3 estimated at 20 °C
Dynamic viscosity	0.65 mPa.s
Flammability class	Flammable IC estimated
Flash point class	Flammable IC
Kinematic viscosity	0.7527 mm ² /s estimated
Molecular formula	C8H10
Molecular weight	106.16 g/mol
Percent volatile	100 %
Specific gravity	0.86 at 20 °C
VOC (Weight %)	100 %

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. 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	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	Harmful in contact with skin. Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	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	Abdominal pain. Dizziness. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Irritation of nose and throat. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters airways. Harmful if inhaled. Harmful in contact with skin
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Product	Species	Test Results	
p-XYLENE (CAS 106-42-3)			
Acute			
Inhalation			
LC50	Mouse	3900 ppm, 6 Hours	
		3900 mg/l, 6 Hours	
Other			
LD50	Rat	3.8 mg/kg	
* Estimates for product ma	y be based on additional component data not	shown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		

Respiratory or skin sensitization	n
Respiratory sensitization	Not available.
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	Possible cancer hazard based on tests with laboratory animals.
IARC Monographs. Overall	Evaluation of Carcinogenicity
p-XYLENE (CAS 106-42-3)	3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
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	May be fatal if swallowed and enters airways.
Chronic effects	Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Product		Species	Test Results
p-XYLENE (CAS 106-42-3	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

* 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 Not available.

Partition coefficient n-octanol / water (log Kow)

3.15	
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow 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.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

UN1307
Xylenes, MARINE POLLUTANT
3
-
3
III

Environmental hazards	
Marine pollutant	Yes
Special precautions for	Read safety instructions, SDS and emergency procedures before handling.
user	Read Survey instructions, 525 and emergency procedures before hundning.
Special provisions	B1, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242
IATA	
UN number	UN1307
UN proper shipping name	Xylenes
Transport hazard class(es)	•
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	3L
Special precautions for	Read safety instructions, SDS and emergency procedures before handling.
user	Read safety instructions, 505 and emergency procedures before nandning.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1307
UN proper shipping name	XYLENES, MARINE POLLUTANT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
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	



FLAMMABLE

3

IATA; IMDG

Marine pollutant



DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations	This product is a "Hazardo 29 CFR 1910.1200. All components are on the		ed by the OSHA Hazard Communication Standard, tory List.
TSCA Section 12(b) Expo	ort Notification (40 CFR 70	7, Subpt. D)	
Not regulated. CERCLA Hazardous Subs	tance List (40 CFR 302.4)		
p-XYLENE (CAS 106-42 SARA 304 Emergency rel		Listed.	
Not regulated.			
Superfund Amendments and	Reauthorization Act of 19	86 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely haz	ardous substance		
Not listed.			
SARA 311/312 Hazardous chemical	Yes		
SARA 313 (TRI reporting	1)		
Chemical name		CAS number	% by wt
p-XYLENE		106-42-3	100
p-XYLENE Other federal regulations		106-42-3	100
Other federal regulations Clean Air Act (CAA) Sect	ion 112 Hazardous Air Poll		100
Other federal regulations Clean Air Act (CAA) Sect p-XYLENE (CAS 106-42		utants (HAPs) List	
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Country(s) or region	Inventory name	On inventory (yes/no)*
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
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	June-22-2015
Version #	01
Disclaimer	GFS Chemicals 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	Product and Company Identification: Synonyms Composition / Information on Ingredients: Disclosure Overrides Physical & Chemical Properties: Multiple Properties Transport Information: Proper Shipping Name/Packing Group HazReg Data: North America