

Distributor Commerce Industrial Chemicals 5611 W. Woolworth Avenue Milwaukee, WI 53218 (414) 353-3630 fax (414) 353-3752

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name:

XYLENE

Manufacturer Information:

Sunoco, Inc. (R&M)

Product Use:

Solvent

Emergency Phone Numbers:

Chemtrec

(800) 424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount (Vol%)
M-XYLENE	108-38-3	0 - 46
P-XYLENE	106-42-3	0 - 20
ETHYL BENZENE	100-41-4	0 - 19
O-XYLENE	95-47-6	0 - 15
TOLUENE	108-88-3	0 - 0.5
BENZENE	71-43-2	0 - 0.01

EXPOSURE GUIDELINES (SEE SECTION 15 FOR ADDITIONAL EXPOSURE LIMITS)

	CAS No.	Governing Body	Exposure Limits		
Limit for the product	1330-20-7	ACGIH	STEL	150	ppm
Limit for the product	1330-20-7	ACGIH	TWA	100	ppm
Limit for the product	1330-20-7	OSHA	TWA	100	ppm
BENZENE	71-43-2	ACGIH	STEL	2.5	ppm
BENZENE	71-43-2	OSHA	STEL	5	ppm
BENZENE	71-43-2	ACGIH	TWA	0.5	ppm
BENZENE	71-43-2	OSHA	TWA	1	ppm
ETHYL BENZENE	100-41-4	ACGIH	STEL	125	ppm
ETHYL BENZENE	100-41-4	ACGIH	TWA	100	ppm
ETHYL BENZENE	100-41-4	OSHA	TWA	100	ppm
M-XYLENE	108-38-3	ACGIH	STEL	150	ppm
M-XYLENE	108-38-3	ACGIH	TWA	100	ppm
M-XYLENE -	108-38-3	OSHA	TWA	100	ppm
O-XYLENE	95-47-6	ACGIH	STEL	150	ppm

O-XYLENE	95-47-6	ACGIH	TWA	100	ppm
O-XYLENE	95-47-6	OSHA	TWA	100	ppm
P-XYLENE	106-42-3	ACGIH	STEL	150	ppm
P-XYLENE	106-42-3	ACGIH	TWA	100	ppm
P-XYLENE	106-42-3	OSHA	TWA	100	ppm
TOLUENE	108-88-3	NIOSH	STEL	150	ppm
TOLUENE	108-88-3	ACGIH	TWA	20	ppm
TOLUENE	108-88-3	OSHA	TWA	200	ppm

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Danger! Flammable liquid and vapor. Harmful if inhaled. Overexposure may cause nervous system effects. May cause serious disturbances of heart rhythm. May cause skin irritation. Causes eye irritation. Causes respiratory tract irritation. Harmful or fatal if swallowed. Pulmonary aspiration hazard. While ingesting or vomiting, may enter lungs and produce damage.

Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

-	<u>Health</u>	<u>Fire</u>	Reactivity	PPI
NFPA	2	3	0	
HMIS	2	3	0	Χ

POTENTIAL HEALTH EFFECTS

PRE-EXISTING MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

The following diseases or disorders may be aggravated by exposure to this product: skin, eye, liver, kidney, nervous system, respiratory system, lung (asthma-like conditions),

INHALATION

High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness and even death). Repeated overexposure has caused a hearing loss in laboratory animals. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Solvent "huffing/sniffing" (abuse) or intentional prolonged overexposure to high levels of vapors can produce abnormal behavior, convulsions, hallucinations, delerium, nervous system damage, serious disturbances of heart rhythm and sudden death. Prolonged or repeated exposure may cause liver and kidney damage. See Section 15 for additional information.

LC50 (mg/l): no data LC50 (mg/m3): no data

LC50 (ppm): 26800

SKIN

May be absorbed through the skin in harmful amounts. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Prolonged or repeated skin contact may cause irritation.

Draize Skin Score: no data Out of 8.0

LD50 (mg/kg): 2000

EYES

Causes eve irritation.

INGESTIÓN

Moderately toxic. Irritating to mouth, throat, and stomach. May produce central nervous system effects, which includes dizziness, loss of balance and coordination, unconsciousness, coma and even death. Harmful or fatal if swallowed. Pulmonary aspiration hazard. While ingesting or vomiting, may enter lungs and produce damage. See Section 15 for additional information.

LD50 (q/kq): 4.3

4. FIRST AID MEASURES

INHALATION

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Get immediate medical attention.

SKIN

Wash with soap and water for 20 minutes. Get medical attention if irritation develops or persists. Wash clothing before reuse. Injection injuries may not appear serious at first but within a few hours, without proper treatment, the area will become swollen, discolored and extremely painful. See Section 15 for additional information.

EYES

Flush eye with water for 20 minutes. Get medical attention.

INGESTION

Do not induce vomiting! Do not give liquids! Get medical attention immediately.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray; Regular foam; Dry chemical; Carbon dioxide;

FIRE FIGHTING INSTRUCTIONS

Use water spray to cool fire exposed tanks and containers. Wear structural fire fighting gear.

FLAMMABLE PROPERTIES

	Typical	Minimum	Maximum	Text Result	Units	Method
Flash Point			<u> </u>	79 TAG C.C.	F	N/A
Autoignition Temperature	870				F	N/A
Lower Explosion Limit	1.1				/ %	N/A
Upper Explosion Limit	6.6		1		%	N/A

6. ACCIDENTAL RELEASE MEASURES

Prevent ignition, stop leak and ventilate the area. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Vapor can be controlled using a water fog. Water streams should not be directed to the liquid as this will cause the liquid to boil and generate more vapor. Keep personnel upwind from leak. Use appropriate personal protective equipment as stated in Section 8 of this MSDS. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container.

7. HANDLING AND STORAGE

HANDLING

Use only in a well-ventilated area. Ground and bond containers when transferring material. Avoid breathing (dust, vapor, mist, gas). Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling. Never siphon by mouth.

STORAGE

Keep away from heat, sparks, and flame. Store in a cool dry place. NFPA class IC storage. Flash point is greater than 73 degrees F and less than 100 degrees F. Consult NFPA and / or OSHA codes for additional information.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult With a Health and Safety Professional for Specific Selections

ENGINEERING CONTROLS

Use with adequate ventilation. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Use explosion-proof ventilation equipment.

PERSONAL PROTECTION

EYE PROTECTION

Splash proof chemical goggles are recommended to protect against the splash of product.

GLOVES or HAND PROTECTION

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Protective gloves are recommended to protect against contact with product. Polyvinyl alcohol; Viton; Safety 4H; Teflon;

RESPIRATORY PROTECTION

Concentration in air determines the level of respiratory protection needed. Use only NIOSH certified respiratory equipment. Half-mask air purifying respirator with organic vapor cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable for exposures to fifty (50) times the exposure limit. Exposure should not exceed the cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

OTHER

Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required. The following materials are acceptable for use as protective clothing: Polyvinyl alcohol (PVA); Viton; Polyurethane; Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Remove contaminated clothing and wash before reuse. For non-fire emergencies, positive pressure SCBA and structural firefighter's protective clothing will provide only limited protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Property	Typical	Units	Text Result	Reference
Appearance		N/A	COLORLESS LIQUID.	
Boiling Point		F	278 TO 290	
Bulk Density		lb/gal	no data	
Melting Point		F	MINUS 53	
Molecular Weight		g/mole	no data	
Octanol/Water Coefficient		N/A	no data	
pН		N/A	no data	
Specific Gravity	0.87	N/A		
Solubility In Water		wt %	NIL	
Odor		N/A	SWEET, PLEASANT.	
Odor Threshold		ppm	no data	
Vapor Pressure	9	mmHg		@ 25 C
Viscosity (F)		SUS	no data	
Viscosity (C)		CsT	no data	
% Volatile	100	wt %		

10. STABILITY AND REACTIVITY

STABILITY

Stable

CONDITIONS TO AVOID

Avoid static discharge

• INCOMPATIBILITY

Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS

Combustion may produce carbon monoxide, carbon dioxide and other asphyxiants.

HAZARDOUS POLYMERIZATION

Will not polymerize.

11. ECOLOGICAL INFORMATION

No data available

12. DISPOSAL CONSIDERATIONS

Follow federal, state and local regulations. This material is a RCRA hazardous waste. Do not flush material to drain or storm sewer. Contract to authorized disposal service.

13. TRANSPORT INFORMATION

Governing Body	<u>Mode</u>	Proper Shippir	ng Name	
DOT	Ground	Xylene		
IATA	Air	Xylene		
IMDG	Marine	Xylene		
Governing Body	<u>Mode</u>	Hazard Class	UN/NA No.	<u>Label</u>
DOT	Ground	3 (Flammable	1307	
		liquid)	.00.	
IATA	Air	•	1307	

14. REGULATORY INFORMATION

Regulatory List	Component	CAS No.
ACGIH - Occupational Exposure Limits - Carcinogens	XYLENE	1330-20-7
ACGIH - Occupational Exposure Limits - TWAs	XYLENE	1330-20-7
ACGIH - Short Term Exposure Limits	XYLENE	1330-20-7
CAA (Clean Air Act) - HON Rule - Organic HAPs	XYLENE	1330-20-7
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	XYLENE	1330-20-7
CAA - 1990 Hazardous Air Pollutants	XYLENE	1330-20-7
CERCLA/SARA - Haz Substances and their RQs	XYLENE	1330-20-7
CERCLA/SARA - Haz Substances and their RQs	XYLENE	1330-20-7
CERCLA/SARA - Haz Substances and their RQs	XYLENE	1330-20-7
CERCLA/SARA - Section 313 - Emission Reporting	XYLENE	1330-20-7
CWA (Clean Water Act) - Hazardous Substances	XYLENE	1330-20-7
IARC - Group 3 (not classifiable)	XYLENE	1330-20-7
Inventory - Australia (AICS)	XYLENE	1330-20-7
Inventory - Canada - Domestic Substances List	XYLENE	1330-20-7
Inventory - China	XYLENE	1330-20-7
Inventory - European EINECS Inventory	XYLENE	1330-20-7
Inventory - Japan - (ENCS)	XYLENE	1330-20-7
Inventory - Korea - Existing and Evaluated	XYLENE	1330-20-7
Inventory - Philippines Inventory (PICCS)	XYLENE	1330-20-7
Inventory - TSCA - Sect. 8(b) Inventory	XYLENE	1330-20-7
Massachusetts - Right To Know List	XYLENE	1330-20-7
New Jersey - Department of Health RTK List	XYLENE	1330-20-7
New Jersey - Env Hazardous Substances List	XYLENE	1330-20-7

New Jersey - Special Hazardous Substances	XYLENE	1330-20-7
OSHA - Final PELs - Time Weighted Averages	XYLENE	1330-20-7
Pennsylvania - RTK (Right to Know) List	XYLENE	1330-20-7
ACGIH - Occupational Exposure Limits - Carcinogens	BENZENE	71-43-2
ACGIH - Occupational Exposure Limits - Carcinogens	ETHYL BENZENE	100-41-4
ACGIH - Occupational Exposure Limits - Carcinogens	M-XYLENE	108-38-3
ACGIH - Occupational Exposure Limits - Carcinogens	O-XYLENE	95-47-6
	P-XYLENE	
ACGIH - Occupational Exposure Limits - Carcinogens		106-42-3
ACGIH - Occupational Exposure Limits - Carcinogens	TOLUENE	108-88-3
ACGIH - Occupational Exposure Limits - TWAs	BENZENE	71-43-2
ACGIH - Occupational Exposure Limits - TWAs	ETHYL BENZENE	100-41-4
ACGIH - Occupational Exposure Limits - TWAs	M-XYLENE	108-38-3
ACGIH - Occupational Exposure Limits - TWAs	O-XYLENE	95-47-6
ACGIH - Occupational Exposure Limits - TWAs	P-XYLENE	106-42-3
ACGIH - Occupational Exposure Limits - TWAs	TOLUENE	108-88-3
ACGIH - Short Term Exposure Limits	BENZENE	71-43-2
ACGIH - Short Term Exposure Limits	ETHYL BENZENE	100-41-4
ACGIH - Short Term Exposure Limits	M-XYLENE	108-38-3
ACGIH - Short Term Exposure Limits	O-XYLENE	95-47 - 6
ACGIH - Short Term Exposure Limits	P-XYLENE	106-42-3
ACGIH - Skin Absorption Designation	BENZENE	71-43-2
ACGIH - Skin Absorption Designation	TOLUENE	108-88-3
CAA (Clean Air Act) - HON Rule - Organic HAPs	BENZENE	71-43-2
CAA (Clean Air Act) - HON Rule - Organic HAPs	ETHYL BENZENE	100-41-4
CAA (Clean Air Act) - HON Rule - Organic HAPs	M-XYLENE	108-38-3
CAA (Clean Air Act) - HON Rule - Organic HAPs	O-XYLENE	95-47-6
	P-XYLENE	106-42-3
CAA (Clean Air Act) - HON Rule - Organic HAPs		
CAA (Clean Air Act) - HON Rule - Organic HAPs	TOLUENE	108-88-3
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	BENZENE	71-43-2
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	ETHYL BENZENE	100-41-4
CAA (Class Air Ast) HON Puls COCMI Chemicale	M-XYLENE	108-38-3
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals		
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	O-XYLENE	95-47-6
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	P-XYLE NE	106-42-3
	TOLUENE	108-88-3
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals		
CAA - 1990 Hazardous Air Pollutants	BENZENE	71-43-2
CAA - 1990 Hazardous Air Pollutants	ETHYL BENZENE	100-41-4
	M-XYLENE	108-38-3
CAA - 1990 Hazardous Air Pollutants		
CAA - 1990 Hazardous Air Pollutants	O-XYLENE	95-47-6
CAA - 1990 Hazardous Air Pollutants	P-XYLENE	106-42-3
CAA - 1990 Hazardous Air Pollutants	TOLUENE	108-88-3
	BENZENE	71-43-2
California - Prop. 65 - Developmental Toxicity		
California - Prop. 65 - Developmental Toxicity	TOLUENE	108-88-3
California - Prop. 65 - Reproductive - Male	BENZENE	71-43-2
California - Proposition 65 - Carcinogens List	BENZENE	71-43-2
California - Proposition 65 - Carcinogens List	ETHYL BENZENE	100-41-4
Canada - WHMIS - Ingredient Disclosure	BENZENE	71-43-2
Canada - WHMIS - Ingredient Disclosure	ETHYL BENZENE	100-41-4
		108-38-3
Canada - WHMIS - Ingredient Disclosure	M-XYLENE	
Canada - WHMIS - Ingredient Disclosure	O-XYLENE	95-47-6
Canada - WHMIS - Ingredient Disclosure	P-XYLENE	106-42-3
	TOLUENE	108-88-3
Canada - WHMIS - Ingredient Disclosure		
CERCLA/SARA - Haz Substances and their RQs	BENZENE	71-43-2
CERCLA/SARA - Haz Substances and their RQs	BENZENE	71-43-2
CERCLA/SARA - Haz Substances and their RQs	BENZENE	71-43-2
	ETHYL BENZENE	100-41-4
CERCLA/SARA - Haz Substances and their RQs		
CERCLA/SARA - Haz Substances and their RQs	ETHYL BENZENE	100-41-4
CERCLA/SARA - Haz Substances and their RQs	ETHYL BENZENE	100-41-4
	M-XYLENE	108-38-3
CERCLA/SARA - Haz Substances and their RQs		
CERCLA/SARA - Haz Substances and their RQs	M-XYLENE	108-38-3
CERCLA/SARA - Haz Substances and their RQs	M-XYLENE	108-38-3
CERCLA/SARA - Haz Substances and their RQs	O-XYLENE	95-47-6
	O-XYLENE	95-47-6
CERCLA/SARA - Haz Substances and their RQs	O-VILCINE	
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CERCLA/SARA - Haz Substances and their RQs	O-XYLENE	95-47-6
CERCLA/SARA - Haz Substances and their RQs	P-XYLENE	106-42-3
CERCLA/SARA - Haz Substances and their RQs	P-XYLENE	106-42-3
CERCLA/SARA - Haz Substances and their RQs	P-XYLENE	106-42-3
CERCLA/SARA - Haz Substances and their RQs	TOLUENE	108-88-3
CERCLA/SARA - Haz Substances and their RQs	TOLUENE	108-88-3
CERCLA/SARA - Haz Substances and their RQs	TOLUENE	108-88-3
CERCLA/SARA - Section 313 - Emission Reporting	BENZENE	71-43-2
CERCLA/SARA - Section 313 - Emission Reporting	ETHYL BENZENE	100-41-4
CERCLA/SARA - Section 313 - Emission Reporting	M-XYLENE	108-38-3
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CERCLA/SARA - Section 313 - Emission Reporting	O-XYLENE	95-47-6
CERCLA/SARA - Section 313 - Emission Reporting	P-XYLENE	106-42-3
CERCLA/SARA - Section 313 - Emission Reporting	TOLUENE	108-88-3
CWA (Clean Water Act) - Hazardous Substances	BENZENE	71-43-2
CWA (Clean Water Act) - Hazardous Substances	ETHYL BENZENE	100-41-4
CWA (Clean Water Act) - Hazardous Substances	M-XYLENE	108-38 - 3
CWA (Clean Water Act) - Hazardous Substances	O-XYLENE	95-47-6
CWA (Clean Water Act) - Hazardous Substances	P-XYLENE	106-42-3
CWA (Clean Water Act) - Hazardous Substances	TOLUENE	108-88-3
CWA (Clean Water Act) - Priority Pollutants	BENZENE	71-43-2
CWA (Clean Water Act) - Priority Pollutants	ETHYL BENZENE	100-41-4
CWA (Clean Water Act) - Priority Pollutants	TOLUENE	108-88-3
	BENZENE	71-43-2
CWA (Clean Water Act) - Toxic Pollutants		
CWA (Clean Water Act) - Toxic Pollutants	ETHYL BENZENE	100-41-4
CWA (Clean Water Act) - Toxic Pollutants	TOLUENE	108-88-3
IARC - Group 1 (carcinogenic to humans)	BENZENE	71-43-2
IARC - Group 2B (Possibly carcinogenic to humans)	ETHYL BENZENE	100-41-4
	M-XYLENE	108-38-3
IARC - Group 3 (not classifiable)		
IARC - Group 3 (not classifiable)	O-XYLENE	95-47-6
IARC - Group 3 (not classifiable)	P-XYLENE	106-42-3
IARC - Group 3 (not classifiable)	TOLUENE	108-88-3
Inventory - Australia (AICS)	BENZENE	71-43-2
Inventory - Australia (AICS)	ETHYL BENZENE	100-41-4
	M-XYLENE	108-38-3
Inventory - Australia (AICS)		
Inventory - Australia (AICS)	O-XYLENE	95-47-6
Inventory - Australia (AICS)	P-XYLE NE	106-42-3
Inventory - Australia (AICS)	TOLUENE	108-88-3
Inventory - Canada - Domestic Substances List	BENZENE	71-43-2
Inventory - Canada - Domestic Substances List	ETHYL BENZENE	100-41-4
Inventory - Canada - Domestic Substances List		
Inventory - Canada - Domestic Substances List	M-XYLENE	108-38-3
Inventory - Canada - Domestic Substances List	O-XYLENE	95-47-6
Inventory - Canada - Domestic Substances List	P-XYL ENE	106-42-3
Inventory - Canada - Domestic Substances List	TOLUENE	108-88-3
→	BENZENE	71-43-2
Inventory - China	ETHYL BENZENE	100-41-4
Inventory - China		
Inventory - China	M-XYLENE	108-38-3
Inventory - China	O-XYLENE	95-47-6
Inventory - China	P-XYLENE	106-42-3
Inventory - China	TOLUENE	108-88-3
	BENZENE	71-43-2
Inventory - European EINECS Inventory		100-41-4
Inventory - European EINECS Inventory	ETHYL BENZENE	
Inventory - European EINECS Inventory	M-XYLENE	108-38-3
Inventory - European EINECS Inventory	O-XYLENE	95-47-6
Inventory - European EINECS Inventory	P-XYLENE	106-42-3
Inventory - European EINECS Inventory	TOLUENE	108-88-3
	BENZENE	71-43-2
Inventory - Japan - (ENCS)		100-41-4
Inventory - Japan - (ENCS)	ETHYL BENZENE	
Inventory - Japan - (ENCS)	M-XYLENE	108-38-3
Inventory - Japan - (ENCS)	O-XYLENE	95-47-6
Inventory - Japan - (ENCS)	P-XYLENE	106-42-3
Inventory - Japan - (ENCS)	TOLUENE	108-88-3
Inventory - Saparr - (ENOS) Inventory - Korea - Existing and Evaluated	BENZENE	71-43-2
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Inventory - Korea - Existing and Evaluated Inventory - Philippines Inventory (PICCS) Inventory - Thilippines Inventory (PICCS) Inventory - TSCA - Sect. 8(b) Inventory Inventory - TSCA - Se
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New Jersey - Env Hazardous Substances List TOLUENE 108-88-3
New Jersey - auction nozardous audstances
New Jersey - Special Hazardous Substances ETHYL BENZENE 100-41-4
New Jersey - Special Hazardous Substances M-XYLENE 108-38-3
New Jersey - Special Hazardous Substances O-XYLENE 95-47-6
New Jersey - Special Hazardous Substances P-XYLENE 106-42-3
New Jersey - Special Hazardous Substances TOLUENE 108-88-3
NTP - Report on Carcinogens - Known Carcinogens BENZENE 71-43-2
OSHA - Final PELs - Ceiling Limits BENZENE 71-43-2
OSHA - Final PELs - Ceiling Limits TOLUENE 108-88-3
OSHA - Final PELs - Short Term Exposure Limits OSHA - Final PELs - Short Term Exposure Limits BENZENE 71-43-2
OSHA - Final PELs - Time Weighted Averages BENZENE 71-43-2
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Pennsylvania - RTK (Right to Know) List TOLUENE 108-88-3
Pennsylvania - RTK - Special Hazardous Substances BENZENE 71-43-2
TSCA - Sect. 12(b) - Export Notification P-XYLENE 106-42-3 TSCA - Section 4 - Chemical Test Rules P-XYLENE 106-42-3
100/1 Cooker 1 Chambar 100 the contract
TSCA - Section 8(a) - PAIR Reporting List P-XYLENE 106-42-3