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west virginia department of environmental protection

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Environmental Enforcement  
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Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

October 15, 2015


**CERTIFICATION**

**SUBJECT:** St. Marys Refining Company

**APPEAL:** #15-27-EQB




I, Jeremy W. Bandy, Chief Inspector of Environmental Enforcement, Department of Environmental Protection, on behalf of the Director of the Division of Water and Waste Management, in compliance with WV Code, Chapter 22 B-1-7 (e) as amended, do hereby certify that the enclosed is a true and accurate reproduction of the proceedings out of which the appeal arises, including documents in the Director's file relating to the matter in question. Due to reproduction problems, maps, photographs, videos, etc. may have been omitted.

  
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Jeremy W. Bandy  
Chief Inspector

cc: Scott G. Mandirola, Director, DWWM (via email)  
Joe Sizemore, Asst. Chief Inspector, EE - HW/UST-AST (via email)  
Ruth Porter, ERPM1, EE - HW/UST-AST (via email)  
Office of Legal Services

Ref. Id	Owner	Facility Name	County	Tank Label	Owner ID	Status	Reg.Date	Out of Service	Level	Capacity	ZCC	SWPA	ZPC	LofL
2014-0002529	ST MARYS REFINING CO	St Marys Refining Co.	Pleasants	037-0000021	60C	C	10/6/2014		1	10,000				Yes
2014-0002529	ST MARYS REFINING CO	St Marys Refining Co.	Pleasants	037-0000022	60AB	C	10/6/2014		1	10,000				Yes



	<b>Applicant: ST MARYS REFINING CO</b> <b>Reference ID: St Marys Refining Co. St Marys Wv (07/22/2014)</b> <b>Status: ERIS - Closed - issued</b>	<b>Type: AST New</b> <b>Registration #1</b> <b>Permit ID: 2014-0002529</b>
		<b>Printed: Oct. 14, 2015</b> <b>1:38 PM</b>

**Section I: Ownership**

Ownership of Tank(s)			
Tank Owner Name:	<input type="text" value="ST MARYS REFINING CO"/>	<u>Incorrect owner?</u>	
Email Address:	<input type="text" value="stmarys@gomart.com"/>	<u>Incorrect contact information?</u>	
Mailing Address:	<input type="text" value="Po Box 392"/>		
	<input type="text"/>		
City:	<input type="text" value="ST. MARYS"/>	State:	<input type="text" value="West Virginia"/>
Postal Code:	<input type="text" value="26170"/>	Country:	<input type="text" value="United States of America"/>
Telephone/Cellphone:	<input type="text" value="304-684-2200 (###-###-####)"/>		
Fax Number:	<input type="text" value="304-684-2289 (###-###-####)"/>		
Attention:	<input type="text"/>		

**Section V-B: Substance Stored**

Substance Stored			Tank is Currently in use
Compartment	CAS#	Name/Description	Comments
You must enter at least one substance.			
1) <input type="text" value="#1 (ID: 60AB, 10000 gallons)"/>	<input type="text" value="001330-20-7"/>	<input type="text" value="Xylene (mixed)"/>	<input type="text" value="60AB is Gasoline Additive"/>
2) <input type="text" value="#1 (ID: 60AB, 10000 gallons)"/>	<input type="text" value="064771-72-8"/>	<input type="text" value="Paraffins (petroleum), normal C5-20"/>	<input type="text"/>
3) <input type="text" value="#1 (ID: 60AB, 10000 gallons)"/>	<input type="text" value="000100-41-4"/>	<input type="text" value="Ethylbenzene"/>	<input type="text"/>
4) <input type="text" value="#1 (ID: 60AB, 10000 gallons)"/>	<input type="text" value="064742-47-8"/>	<input type="text" value="Distillates (petroleum), hydrotreated light"/>	<input type="text"/>

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Are the contents of this tank considered confidential, protected, or a trade secret under a specific statute, regulation, permit, etc.? If yes, you must attach appropriate documentation to this section of the registration before you can mark if complete.

Yes

Does the content of the tank change?  (Check if yes)

Describe method, frequency, and list other tanks involved

**Section V-B: Substance Stored**

**Substance Stored**

**Tank is Currently in use**

You must enter at least one substance.

	Compartment	CAS#	Name/Description	Comments
1)	#1 (ID: 60C, 10000 gallons)	001330-20-7	Xylene (mixed)	Diesel Additive in 60C
2)	#1 (ID: 60C, 10000 gallons)	000100-41-4	Ethylbenzene	
3)	#1 (ID: 60C, 10000 gallons)	178535-25-6	Benzene, ethylenated, residues, distr. lights	
4)	#1 (ID: 60C, 10000 gallons)	000102-25-0	Benzene, 1,3,5-triethyl-	
5)	#1 (ID: 60C, 10000 gallons)	000091-20-3	Naphthalene	

Are the contents of this tank considered confidential, protected, or a trade secret under a specific statute, regulation, permit, etc.? If yes, you must attach appropriate documentation to this section of the registration before you can mark if complete.

Yes

Does the content of the tank change?  (Check if yes)

Describe method, frequency, and list other tanks involved

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# DMA-641

## Material Safety Data Sheet

### 1. Product and company identification

Product name : DMA-641  
 Material uses : Petrochemical industry: Fuel additive  
 Internal code : IFS0495  
 Supplier : Innospec Fuel Specialties LLC  
 North American Headquarters  
 8375 South Willow Street  
 Littleton  
 Colorado 80124  
 USA

Information contact : 1-800-441-9547

Emergency telephone number

In USA, Canada and North America, 24 hour / 7 day emergency response for Innospec products is provided by the CHEMTREC (R) Emergency Call Center based in the USA  
 toll-free telephone numbers USA : 800 424 9300 Canada, Puerto Rico, Virgin Islands : +1 800 424 9300  
 in case of difficulty using the toll-free number, or for ships at sea, please call +1 703 527 3897

In Europe, Middle East, Africa, Asia Pacific and South America  
 24 hour / 7 day emergency response for Innospec products is provided by the NCEC CARECHEM 24 global network



The main regional centres are listed here in Section 1.

Other local contact numbers for specific language support in Asia Pacific are listed in Section 16

Country information	Emergency telephone number	Location
Europe ( all countries, all languages )	+44 (0) 1235 239 670	London, UK
Middle East, Africa ( Arabic, French, English )	+44 (0) 1235 239 671	Lebanon
Middle East, Africa ( French, Portuguese, English )	+44 (0) 1235 239 670	London, UK
Asia Pacific ( all countries except China )	+65 3158 1074	Singapore
China	+86 10 5100 3036	Beijing, China
South America ( all countries )	+1 215 207 0051	Philadelphia, USA

### 2. Hazards identification

Physical state : Liquid  
 Odor : Mild Amine-like  
 OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
 Emergency overview : **WARNING!**  
 FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. HARMFUL IF INHALED. CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. POSSIBLE CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER, BASED ON ANIMAL DATA.

#### Potential acute health effects

## 2. Hazards identification

- Inhalation : Toxic by inhalation.  
 Ingestion : No known significant effects or critical hazards.  
 Skin : Harmful in contact with skin. Irritating to skin.  
 Eyes : Severely irritating to eyes. Risk of serious damage to eyes.

### Potential chronic health effects

- Carcinogenicity : Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.  
 Mutagenicity : No known significant effects or critical hazards.  
 Teratogenicity : No known significant effects or critical hazards.  
 Developmental effects : No known significant effects or critical hazards.  
 Fertility effects : No known significant effects or critical hazards.  
 Target organs : Contains material which causes damage to the following organs: blood, kidneys, liver, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

### Over-exposure signs/symptoms

- Inhalation : No specific data.  
 Ingestion : No specific data.  
 Skin : Adverse symptoms may include the following:  
 irritation  
 redness  
 Eyes : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness

- Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

Name	CAS number	%
Paraffine (petroleum), normal C5-20	64771-72-6	15 - 30
xylene	1330-20-7	15 - 30
ethylbenzene	100-41-4	0.99 - 4.99
distillates (petroleum), hydrotreated light	64742-47-9	0.99 - 4.99

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

- Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.  
 Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.  
 Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

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## 4. First aid measures

- Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## 5. Fire-fighting measures

- Flammability of the product : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

### Extinguishing media

- Suitable : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable : Do not use water jet.
- In case of fire : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous thermal decomposition products : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

- Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flames, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods for cleaning up

- Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
- Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

- Handling : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

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## 7. Handling and storage

compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

Ingredient	Exposure limits
Paraffins (petroleum), normal C5-20	<p><b>NIOSH REL (United States, 8/2009).</b>            TWA: 5 mg/m<sup>3</sup> 10 hour(s) Form: Mist            STEL: 10 mg/m<sup>3</sup> 15 minute(s) Form: Mist</p>
xylene	<p><b>ACGIH TLV (United States, 2/2010).</b>            TWA: 100 ppm, 0 times per shift, 8 hour(s)            TWA: 434 mg/m<sup>3</sup>, 0 times per shift, 8 hour(s)            STEL: 150 ppm, 0 times per shift, 15 minute(s)            STEL: 551 mg/m<sup>3</sup>, 0 times per shift, 15 minute(s)</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b>            TWA: 100 ppm, 0 times per shift, 8 hour(s)            TWA: 435 mg/m<sup>3</sup>, 0 times per shift, 8 hour(s)            STEL: 150 ppm, 0 times per shift, 15 minute(s)            STEL: 555 mg/m<sup>3</sup>, 0 times per shift, 15 minute(s)</p> <p><b>OSHA PEL (United States, 6/2010).</b>            TWA: 100 ppm, 0 times per shift, 8 hour(s)            TWA: 435 mg/m<sup>3</sup>, 0 times per shift, 8 hour(s)</p>
ethylbenzene	<p><b>ACGIH TLV (United States, 2/2010).</b>            TWA: 100 ppm, 0 times per shift, 8 hour(s)            STEL: 125 ppm, 0 times per shift, 15 minute(s)</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b>            TWA: 100 ppm, 0 times per shift, 8 hour(s)            TWA: 435 mg/m<sup>3</sup>, 0 times per shift, 8 hour(s)            STEL: 125 ppm, 0 times per shift, 15 minute(s)            STEL: 545 mg/m<sup>3</sup>, 0 times per shift, 15 minute(s)</p> <p><b>NIOSH REL (United States, 8/2009).</b>            TWA: 100 ppm, 0 times per shift, 10 hour(s)            TWA: 435 mg/m<sup>3</sup>, 0 times per shift, 10 hour(s)            STEL: 125 ppm, 0 times per shift, 15 minute(s)            STEL: 545 mg/m<sup>3</sup>, 0 times per shift, 15 minute(s)</p> <p><b>OSHA PEL (United States, 6/2010).</b>            TWA: 100 ppm, 0 times per shift, 8 hour(s)            TWA: 435 mg/m<sup>3</sup>, 0 times per shift, 8 hour(s)</p>
distillates (petroleum), hydrotreated light	<p><b>ACGIH TLV (United States, 1/2009), Absorbed through skin.</b>            TWA: 200 mg/m<sup>3</sup>, 0 times per shift, 5 hour(s)</p>

### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

## 8. Exposure controls/personal protection

<b>Engineering measures</b>	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
<b>Hygiene measures</b>	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Personal protection</b>	
<b>Respiratory</b>	: Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Hands</b>	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Eyes</b>	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
<b>Skin</b>	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Environmental exposure controls</b>	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

<b>Physical state</b>	: Liquid
<b>Flash point</b>	: Closed cup: 38°C (100.4°F)
<b>Auto-ignition temperature</b>	: Lowest known value: 200 to 250°C (392 to 482°F) (distillates (petroleum), hydrotrreated light)
<b>Flammable limits</b>	: Greatest known range: Lower: 1% Upper: 7% (xylene)
<b>Color</b>	: Clear, Light Amber
<b>Odor</b>	: Mild Amine-like
<b>pH</b>	: 9.5 to 10.7 [Conc. (% w/w): 1%]
<b>Boiling/condensation point</b>	: 148 to 198°C (298.4 to 388.4°F)
<b>Melting/freezing point</b>	: -42 to -30°C (-43.6 to -22°F)
<b>Specific gravity</b>	: 0.87 [ASTM D 4052]
<b>Density</b>	: 7.24 lbs/gal
<b>Vapor pressure</b>	: <0.7 kPa (<5 mm Hg) (at 20°C)
<b>Vapor density</b>	: Highest known value: 6.5 (Air = 1) (distillates (petroleum), hydrotrreated light). Weighted average: 4.11 (Air = 1)
<b>Evaporation rate</b>	: Highest known value: 0.64 (ethylbenzene) Weighted average: 0.87 compared with butyl acetate
<b>Solubility(ies)</b>	: Insoluble in the following materials: cold water, hot water.



## 10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Gas	Rat	6670 ppm	4 hours
	LD50 Dermal	Rabbit	4320 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Mouse	35500 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapor	Rabbit	4000 ppm	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
distillates (petroleum), hydrotreated light	LC50 Inhalation Vapor	Rat	>5 mg/L	4 hours

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rat	-	-	-
ethylbenzene	Skin - Moderate irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-

### Carcinogenicity

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
xylene	A4	3	-	-	-	-
ethylbenzene	A3	2B	-	-	-	-
distillates (petroleum), hydrotreated light	A3	-	-	-	-	-

## 12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
xylene	Acute LC50 3.3 mg/L	Fish	96 hours
ethylbenzene	Acute EC50 4600 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 7.2 mg/L	Algae	48 hours
	Acute EC50 2.93 mg/L	Daphnia	48 hours
	Acute LC50 4.2 mg/L	Fish	96 hours
	Chronic NOEC 8600 ug/L Fresh water	Daphnia - Daphnia magna - 24 hours	48 hours
distillates (petroleum), hydrotreated light	Acute EC50 >1000 mg/L	Algae	48 hours
	Acute LC50 2200 ug/L Fresh water	Fish - Lepomis macrochirus - 35	4 days

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## 12. Ecological information

	Acute LC50 2800 ug/L. Fresh water	to 75 mm Fish - <i>Oncorhynchus mykiss</i> - 35 to 75 mm	96 hours
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## 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1993	Flammable liquids, n.o.s. (xylene, distillates (petroleum), hydrotreated light)	3	II		<b>Limited quantity</b> Yes  <b>Packaging instruction</b> Passenger aircraft Quantity limitation: 60 L  Cargo aircraft Quantity limitation: 220 L  <b>Special provisions</b> B1, B52, I23, T4, TP1, TP29
IMDG Class	UN1993	FLAMMABLE LIQUID, N.O.S. (xylene, distillates (petroleum), hydrotreated light)	3	III		<b>Emergency schedules (EmS)</b> F-E_S-E_
IATA-DGR Class	UN1993	Flammable liquid, n.o.s. (xylene, distillates (petroleum), hydrotreated light)	3	III		

PG\* : Packing group

Reportable quantity

: CERCLA: Hazardous substances.: xylene: 100 lbs. (45.4 kg); ethylbenzene: 1000 lbs. (454 kg).

Flash point

: Closed cup: 35°C (100.4°F)

## 15. Regulatory information

- HCS Classification** : Combustible liquid  
Toxic material  
Irritating material  
Carcinogen  
Target organ effects
- U.S. Federal regulations** : TSCA 8(a) (UR Exempt/Partial exemption): Not determined  
United States Inventory (TSCA 8(b)): All components are listed or exempted  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: xylene; ethylbenzene; distillates (petroleum), hydrotreated light  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: xylene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; ethylbenzene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; distillates (petroleum), hydrotreated light: Delayed (chronic) health hazard  
Clean Water Act (CWA) 307: ethylbenzene  
Clean Water Act (CWA) 311: xylene; ethylbenzene
- Clean Air Act, Section 112(b) Hazardous Air Pollutants (HAPs)** : Listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	xylene	1330-20-7	15 - 30
	ethylbenzene	100-41-4	0.99 - 4.99
Supplier notification	xylene	1330-20-7	15 - 30
	ethylbenzene	100-41-4	0.99 - 4.99

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: XYLENE; ETHYL BENZENE
- New York** : The following components are listed: Xylene (mixed); Ethylbenzene
- New Jersey** : The following components are listed: XYLENES; BENZENE; DIMETHYL-; ETHYL BENZENE; BENZENE; ETHYL-
- Pennsylvania** : The following components are listed: BENZENE; DIMETHYL-; BENZENE; ETHYL-

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
ethylbenzene	Yes.	No.	41 µg/day (ingestion) 64 µg/day (inhalation)	No.

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## 15. Regulatory information

### International lists

United States inventory (TSCA 8b)	: All components are listed or exempted
Canada inventory	: All components are listed or exempted
Australia inventory (AICS)	: Not determined.
China inventory (IECSC)	: Not determined.
EU inventory	: Not determined.
Japan inventory (ENCS)	: Not determined.
Korea inventory (KECI)	: Not determined.
New Zealand inventory of Chemicals (NZIoC)	: Not determined.
Philippines inventory (PICCS)	: Not determined.

## 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		2
Physical hazards		0

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-8858.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of printing	: 13/10/2011.
Date of issue	: 13/10/2011.
Date of previous issue	: 03/10/2011.
Version	: 1.01

✓ Indicates information that has changed from previously issued version.

Emergency contact numbers for local language support in Asia Pacific region

Country information	Languages supported	Telephone no.:	Location
Australia	English	+61 2 8014 4558	Australia
Bangladesh	Bengali, English	+65 3158 1200	Singapore
China	Mandarin, English	+86 10 5100 3039	Beijing China
India	Hindi, English	+85 3158 1168	Singapore

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

Date of issue : October 13, 2011

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9/19

## 16. Other information

Indonesia (local toll free number)	Bahasa Indonesian, English	00780 3011 0293	Indonesia
Japan	Japanese, English	+81 3 4578 8341	Japan
Korea	Korean, English	+65 3158 1285	Singapore
Malaysia	Bahasa Malaysian, English	+60 3 6207 4347	Malaysia
New Zealand	English	+61 9929 1483	Australia
Pakistan	Urdu, English	+65 3158 1329	Singapore
Philippines	Tagalog, English	+65 3158 1203	Singapore
Sri Lanka	Sinhalese, English	+65 3158 1195	Singapore
Thailand (local toll free number)	Thai, English	001800 1 2086 8761	Thailand
Vietnam	Vietnamese, English	+65 3158 1255	Singapore

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

000012



OLI-9070.x  
Material Safety Data Sheet

1 Company Identification

Innospec Fuel Specialties  
8375 S. Willow Street  
Littleton, CO 80124

Product Information 1-800-441-8547  
In Case of Emergency  
Call Chemtrec 1-800-424-9300

2 Composition / Ingredient Information

<u>Material</u>	<u>CAS Number</u>	<u>%</u>
Proprietary Polymers .....		60-80
*Xylene.....	1030-20-7 .....	20-40
(Ethylbenzene).....	100-41-4 .....	(3-8)
Light Ends of Polyethylbenzene Residue .....	178535-25-6 .....	10-20
(Triethylbenzene) .....	102-25-0 .....	(<4)
(Naphthalene) .....	91-20-3 .....	(<1)

\*Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

3 Hazardous Identification

**Potential Health Effects**

Skin contact may cause skin irritation with discomfort or rash. Xylene can penetrate the skin in amounts capable of causing systemic toxicity. Eye contact may cause eye irritation with discomfort, tearing or blurring of vision. Inhalation of Ethylbenzene may cause irritation of the upper respiratory passages with coughing and discomfort.

Inhalation or ingestion of Xylene or Ethylbenzene may cause nonspecific discomfort, such as nausea, headache, or weakness; or temporary nervous system depression with anesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness.

Inhalation or ingestion of Ethylbenzene may cause abnormal liver or kidney function. Aspiration of Ethylbenzene into the lungs during ingestion or vomiting may lead to chemical pneumonitis.

Ingestion of Xylene or Ethylbenzene may cause gastrointestinal tract irritation. Higher exposure to Xylene may lead to cardiac stress; anemia and other blood changes; respiratory effects; possible liver and kidney damage; or fatality from gross overexposure.

Eye contact with the product ingredients may cause eye irritation with discomfort, tearing, or blurring of vision. Direct exposure may cause skin irritation (redness, swelling). A single prolonged exposure may result in the material being absorbed through the skin in harmful amounts.

In general, overexposure to high atmospheric concentrations of alkyl-substituted aromatics may produce central nervous system depression, headache, dizziness, incoordination, nausea and loss of appetite. Aspiration (liquid enters the lung), may cause lung damage due to chemical pneumonia, a condition caused by petroleum-like solvents.

Minute amounts of petroleum hydrocarbons aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possible death.

Individuals with preexisting diseases of the kidneys or liver may have increased susceptibility to the toxicity of excessive exposures.

#### **Carcinogenicity Information**

Ethylbenzene and Naphthalene have been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). This IARC classification was based upon limited evidence of carcinogenicity to animals and inadequate evidence of carcinogenicity to humans.

## **4 First Aid Measures**

### **Inhalation**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

### **Skin Contact**

Flush skin with water after contact. Wash contaminated clothing before reuse.

### **Eye Contact**

In case of contact immediately, flush eyes with plenty of water for at least 15 minutes. Call a physician.

### **Ingestion**

If swallowed, do not induce vomiting. Allow victim to rinse his mouth and then to drink 2-4 cupsful of water. Never give anything by mouth to an unconscious person. Call a physician.

### **Notes to Physicians**

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400-ml water and mix thoroughly. Administer 5 ml/kg or 350 ml for an average adult.

Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances. Activated charcoal may induce vomiting, but may be given after emesis or lavage to absorb toxic additives. Steroid therapy in mild to moderate cases does not improve outcome. Bacterial pneumonia often occurs after exposure, but prophylactic antibiotics are not indicated and should be reserved for documented bacterial pneumonia.

## **5 Fire Fighting Measures**

### **Flammable Properties**

Flash Point ..... 64°F (34°C)  
Method ..... FMCC  
Flammable Liquid

### **Extinguishing Media**

Water Spray, Foam, Dry Chemical, CO<sub>2</sub>

### **Fire Fighting Instructions**

Wear self-contained breathing apparatus. Wear full protective equipment.

## **6 Accidental Release Measures**

Note: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) SECTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Soak up with sawdust, sand, oil dry or other absorbent material. Remove source of heat, sparks, flame, impact, friction, or electricity. Dike spill. Prevent material from entering sewers, waterways, or low areas.

### **Spill Clean-Up**

Soak up with sawdust, sand, oil dry or other absorbent material.

### **Accidental Release Measures**

Spills are very slippery and should be cleaned up promptly. Unless released material is cleaned up immediately for reprocessing, recycling, or reuse, a release of 100 lbs. may trigger the reporting requirements of CERCLA Section 103.

## **7 Handling and Storage**

### **Handling (Personnel)**

Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

### **Handling (Physical Aspects)**

Keep away from heat, sparks and flames.

### **Storage**

Store in a well-ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations.

## **8 Exposure Controls**

### **Engineering Controls**

Use only with adequate ventilation. Keep container tightly closed.

## Personal Protective Equipment

### Eye/Face Protection

Wear overall chemical splash goggles or safety glasses.

### Respirators

Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

### Protective Clothing

Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, hood and jacket.

## Exposure Limits

### Xylene:

PEL (OSHA) .....	100 ppm, 436 mg/m <sup>3</sup> , 8 hr TWA
TLV (ACGIH) .....	100 ppm, 434 mg/m <sup>3</sup> , 8 hr TWA
	STEL 150 ppm, 651 mg/m <sup>3</sup> , A4; BEI
AEL* (Innospec Fuel Specialties) .....	100 ppm, 8 & 12 hr, TWA, skin
	150 ppm, 15 minute TWA

### Ethylbenzene:

PEL (OSHA) .....	100 ppm, 436 mg/m <sup>3</sup> , 8 hr, TWA
TLV (ACGIH) .....	100 ppm, 434 mg/m <sup>3</sup> , 8 hr, TWA, A3, BEI
	STEL 125 ppm, 543 mg/m <sup>3</sup>
AEL* (Innospec Fuel Specialties) .....	None established

### Naphthalene:

PEL (OSHA) .....	10 ppm, 50 mg/m <sup>3</sup> , 8 hr, TWA
TLV (ACGIH) .....	10 ppm, 52 mg/m <sup>3</sup> , 8 hr TWA, Skin, A4
	STEL 15 ppm, 79 mg/m <sup>3</sup> , A4
AEL* (Innospec Fuel Specialties) .....	None established

The "skin" notation following the exposure guideline refers to the potential for dermal absorption of the material. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposure should be considered.

\* AEL is Innospec Fuel Specialties' acceptable exposure limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

## 9 Physical and Chemical Properties

### Physical Data

Appearance.....	Clear Amber
Form.....	Liquid
Odor.....	Aromatic
Specific Gravity .....	0.947 @ 50/60°F (16/16°C)
Density.....	7.89 lbs./gal. @ 60°F (16°C)
Solubility in water.....	insoluble

## 10 Stability and Reactivity

### Chemical Stability

Stable at normal temperatures and storage conditions.

### Incompatibility

Incompatible with strong oxidizers.

### Decomposition

Decomposes with heat. Hazardous decomposition products include oxides of carbon.

### Polymerization

Will not occur.

## 11 Toxicological Information

### Animal Data

#### Xylene (mixed isomers):

Inhalation 4 hour LC50.....	6,700 ppm in rats
Skin absorption LD50.....	4,320 mg/kg in rabbits
Oral ALD.....	4,500 mg/kg in rats

#### Ethylbenzene:

Inhalation 4 hour LC50.....	>4,000 ppm in rats
Skin absorption LD50.....	~15,000 mg/kg in mice
Oral LD50.....	>3,500 mg/kg in rats

#### Proprietary Polymer (read across data):

Oral LD50.....	>2,000 mg/kg in rats
Dermal LD50.....	>2,000 mg/kg in rabbits
Skin sensitization.....	negative in guinea pigs

#### Naphthalene:

Inhalation 15 minute LC50.....	>0.34 mg/L in rats
Skin Absorption LD50.....	10,000 mg/kg in rabbits
Oral LD50.....	1,780 mg/kg in rats

Dermal absorption of Xylene in animals causes narcosis. Toxic effects described in animals by inhalation include upper respiratory irritation; central nervous system effects; behavioral effects; decreased weight gain; hearing loss; and effects on the blood, liver, kidneys, heart, spleen, lungs and bone marrow. By ingestion, Xylene caused central nervous system effects; decreased body weight and liver effects. Tests of Xylene in animals demonstrate no carcinogenic activity. Xylene does not produce heritable genetic damage in animals or genetic damage in bacterial or mammalian cell cultures. Although abnormal sperm were observed after an interperitoneal injection in rats, Xylene did not produce reproductive effects. Developmental toxicity was observed in animals exposed to Xylene but only at concentrations that were maternally toxic.



## 12 Ecological Information

Proprietary Polymer (read across data):  
LC50, 96 hours, >1,000 mg/L in fish (WAF)  
EC50, 48 hours, >1,000 mg/L in Daphnia (WAF)  
IC50, 72 hours, >1,000 mg/L in algae (WAF)  
IC50, 3 hours, >1,000 mg/L (WAF)

Proprietary Polymer present at <5% (read across data):  
Acute toxicity in fish >100 mg/L

Xylene:  
96 hour LC50 fathead minnow: 27-42 mg/L

## 13 Disposal Considerations

### Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. May be a RCRA hazardous waste due to the ignitability characteristics.

## 14 Shipping Information

### DOT

Proper Shipping Name..... Xylene Solution  
Hazard Class..... 3  
I.D. No. (UN/NA)..... UN 1307  
Packing Group..... III  
Special Information..... Flash Point: 34°C  
Marine Pollutant..... No  
DOT Label(s)..... Flammable Liquid

### IMO

Proper Shipping Name..... Xylene 30% Solution  
Hazard Class..... 3  
I.D. No. (UN)..... 1307  
Packing Group..... III  
Special Information..... Flash Point: 34°C  
Marine Pollutant..... No  
IMO Label..... Flammable Liquid

### Reportable Quantity

Xylene..... 100 lbs.  
Ethylbenzene..... 1000 lbs.

### Shipping Containers

Steel Drums UN1A1/Y100



## 15 US Federal Regulations

TSCA Inventory Status ..... Reported / Included

Title III Hazard Classifications Sections 311, 312

Acute ..... Yes  
Chronic ..... Yes  
Fire ..... Yes  
Reactivity ..... No  
Pressure ..... No

## 16 Other Information

NPCA-HMIS Rating

Health ..... 2\* (Chronic Health Effects)  
Flammability ..... 3  
Reactivity ..... 0

Personal Protection rating to be supplied by user depending on use conditions.

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS:      Ann Marie Savini  
   Innospec Fuel Specialties  
   Newark, DE 19702  
   (800) 441-8547 or  
   (302) 451-1362

From: [den.online@wv.gov](mailto:denonline@wv.gov)  
 To: [Randy\\_Huffman@wv.gov](mailto:Randy_Huffman@wv.gov); [stmarys@gomart.com](mailto:stmarys@gomart.com); [stmarys@gomart.com](mailto:stmarys@gomart.com); [STMARYS@GOMART.COM](mailto:STMARYS@GOMART.COM)  
 Subject: Confirmation of your Aboveground Storage Tank Submission: St Marys Refining Co. St Marys Wv (07/22/2014)  
 Date: Monday, October 06, 2014 10:04:20 AM

Division of Water and Waste Management  
 601 57th Street SE  
 Charleston, WV 25304  
 Phone: (304) 926-0495  
 Fax Number: (304) 926-0463

Earl Ray Tomblin, Governor  
 Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

10/06/2014  
 Aboveground Storage Tank (AST) Registration  
 REF DOC: 2014-0002529

Dear AST Owner,

Thank you for registering your aboveground storage tank(s) with the West Virginia Department of Environmental Protection (DEP).

Your registration submitted to DEP on 08/15/2014, has been reviewed and determined *administratively* complete. Your new DEP Tank Registration Number, the identity of and distance to the nearest groundwater public water supply intake and/or the nearest downstream surface water intake, and other pertinent information is listed below.

Please be advised that the West Virginia Department of Health and Human Resources (DHHR) is currently revising the State's Zone of Critical Concern (ZCC) and Source Water Protection areas. It is not known when this revision will be complete, but as a result of the revision, your tank(s) ZCC and/or Source Water Protection Area (SWPA) status may change. If so, DEP will notify you. You will also be notified of any applicable registration fees once legislative rules establishing the AST fee structure become effective.

TANK REGISTRATION NUMBER	037-00000016
Owner's Description of Tank	502
County Tank is Located	Pleasants
Status of Tank	Currently in use
Identity of and Distance to Nearest WV Groundwater Public Water Supply Intake	SAINT MARYS/WELL NOS: 3 miles
Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(15)? Yes/No	No
Identity of and Distance to WV Nearest Surface Water Downstream Public Water Supply Intake	WVAWC - HUNTINGTON DIST/GUYANDOTTE STATION INTAKE - OHIO RIVER: 162 miles
Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(16)? Yes/No	No

TANK REGISTRATION NUMBER	037-00000017
Owner's Description of Tank	88
County Tank is Located	Pleasants
Status of Tank	Temporarily out of service
Identity of and Distance to Nearest WV Groundwater Public Water Supply Intake	SAINT MARYS/WELL NOS: 3 miles
Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(15)? Yes/No	No
Identity of and Distance to WV Nearest Surface Water Downstream Public Water Supply Intake	WVAWC - HUNTINGTON DIST/GUYANDOTTE STATION INTAKE - OHIO RIVER: 162 miles
Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(16)? Yes/No	No

TANK REGISTRATION NUMBER	037-00000018
Owner's Description of Tank	501
County Tank is Located	Pleasants
Status of Tank	Currently in use
Identity of and Distance to Nearest WV Groundwater Public Water Supply Intake	SAINT MARYS/WELL NOS: 3 miles
Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(15)? Yes/No	No
Identity of and Distance to WV Nearest Surface Water Downstream Public Water Supply Intake	WVAWC - HUNTINGTON DIST/GUYANDOTTE STATION INTAKE - OHIO RIVER: 162 miles
Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(16)? Yes/No	No

000020

c	
<b>TANK REGISTRATION NUMBER 037-0000019</b>	
Owner's Description of Tank	71
County Tank is Located	Pleasants
Status of Tank	Currently in use
Identity of and Distance to Nearest WW Groundwater Public Water Supply Intake	SAINT MARYS/WELL NOS: 3 miles
Tank is in WW Source Water Protection Area (SWPA) as defined in §22-30-3(15)? Yes/No	No
Identity of and Distance to WW Nearest Surface Water Downstream Public Water Supply Intake	WAWC - HUNTINGTON DIST/GUYANDOTTE STATION INTAKE - OHIO RIVER: 162 miles
Tank is in WW Zone of Critical Concern (ZCC) as defined in §22-30-3(16)? Yes/No	No
<b>TANK REGISTRATION NUMBER 037-0000020</b>	
Owner's Description of Tank	73
County Tank is Located	Pleasants
Status of Tank	Temporarily out of service
Identity of and Distance to Nearest WW Groundwater Public Water Supply Intake	SAINT MARYS/WELL NOS: 3 miles
Tank is in WW Source Water Protection Area (SWPA) as defined in §22-30-3(15)? Yes/No	No
Identity of and Distance to WW Nearest Surface Water Downstream Public Water Supply Intake	WAWC - HUNTINGTON DIST/GUYANDOTTE STATION INTAKE - OHIO RIVER: 162 miles
Tank is in WW Zone of Critical Concern (ZCC) as defined in §22-30-3(16)? Yes/No	No
<b>TANK REGISTRATION NUMBER 037-0000021</b>	
Owner's Description of Tank	60C
County Tank is Located	Pleasants
Status of Tank	Currently in use
Identity of and Distance to Nearest WW Groundwater Public Water Supply Intake	SAINT MARYS/WELL NOS: 2 miles
Tank is in WW Source Water Protection Area (SWPA) as defined in §22-30-3(15)? Yes/No	No
Identity of and Distance to WW Nearest Surface Water Downstream Public Water Supply Intake	WAWC - HUNTINGTON DIST/GUYANDOTTE STATION INTAKE - OHIO RIVER: 162 miles
Tank is in WW Zone of Critical Concern (ZCC) as defined in §22-30-3(16)? Yes/No	No
<b>TANK REGISTRATION NUMBER 037-0000022</b>	
Owner's Description of Tank	60AB
County Tank is Located	Pleasants
Status of Tank	Currently in use
Identity of and Distance to Nearest WW Groundwater Public Water Supply Intake	SAINT MARYS/WELL NOS: 2 miles
Tank is in WW Source Water Protection Area (SWPA) as defined in §22-30-3(15)? Yes/No	No
Identity of and Distance to WW Nearest Surface Water Downstream Public Water Supply Intake	WAWC - HUNTINGTON DIST/GUYANDOTTE STATION INTAKE - OHIO RIVER: 162 miles
Tank is in WW Zone of Critical Concern (ZCC) as defined in §22-30-3(16)? Yes/No	No
<b>TANK REGISTRATION NUMBER 037-0000023</b>	
Owner's Description of Tank	72
County Tank is Located	Pleasants
Status of Tank	Temporarily out of service
Identity of and Distance to Nearest WW Groundwater Public Water Supply Intake	SAINT MARYS/WELL NOS: 3 miles
Tank is in WW Source Water Protection Area (SWPA) as defined in §22-30-3(15)? Yes/No	No
Identity of and Distance to WW Nearest Surface Water Downstream Public Water Supply Intake	WAWC - HUNTINGTON DIST/GUYANDOTTE STATION INTAKE - OHIO RIVER: 162 miles
Tank is in WW Zone of Critical Concern (ZCC) as defined in §22-30-3(16)? Yes/No	No

000021

o	
<b>TANK REGISTRATION NUMBER</b>	<b>037-0000024</b>
Owner's Description of Tank	503
County Tank is Located	Pleasants
Status of Tank	Currently in use
Identity of and Distance to Nearest WW Groundwater Public Water Supply Intake	SAINT MARYS/WELL NO5: 3 miles
Tank is in WW Source Water Protection Area (SWPA) as defined in §22-30-3(15)? Yes/No	No
Identity of and Distance to WW Nearest Surface Water Downstream Public Water Supply Intake	WVAWC - HUNTINGTON DIST/GUYANDOTTE STATION INTAKE - OHIO RIVER: 162 miles
Tank is in WW Zone of Critical Concern (ZCC) as defined in §22-30-3(16)? Yes/No	No

<b>TANK REGISTRATION NUMBER</b>	<b>037-0000025</b>
Owner's Description of Tank	89
County Tank is Located	Pleasants
Status of Tank	Temporarily out of service
Identity of and Distance to Nearest WW Groundwater Public Water Supply Intake	SAINT MARYS/WELL NO5: 3 miles
Tank is in WW Source Water Protection Area (SWPA) as defined in §22-30-3(15)? Yes/No	No
Identity of and Distance to WW Nearest Surface Water Downstream Public Water Supply Intake	WVAWC - HUNTINGTON DIST/GUYANDOTTE STATION INTAKE - OHIO RIVER: 162 miles
Tank is in WW Zone of Critical Concern (ZCC) as defined in §22-30-3(16)? Yes/No	No

**KEY:**

**Currently in use:** The tank is operational at this time.

**Temporarily Out of Service:** The tank is currently not in use, but will be used in the future.

**Non-Operational:** The tank is empty, and fluids will not be deposited in or dispensed from the tank on or after June 6, 2014.

**Permanently Out of Service:** The tank is empty, clean, and rendered incapable of holding fluid.

As prescribed in §22-30-4(d), you are required to register any tanks placed into service on or after **June 6, 2014**. In addition, if any change occurs in a tank's status, contents, ownership, or location, you will need to request access to update the tank registration. Please contact Tricia Sizemore at 304.926.0499, extension 1284 or [Tricia.T.Sizemore@wv.gov](mailto:Tricia.T.Sizemore@wv.gov) to have the e-registration made available to you to make changes.

Please note, pursuant to §22-30-6 and §22-30-9, all registered aboveground storage tanks must complete the following and submit to DEP by deadlines shown.

- December 3, 2014 – Spill Prevention Response Plan
- January 1, 2015 – Tank inspection completed and inspection results certified

Both documents are to be submitted through DEP's Electronic Submission System (ESS). This is the same system you used to register your tanks, and will be available for the submittal of these documents in mid-October 2014 following the comment period on the Interpretive Rule (47CSR62). The web link to ESS can be found on DEP's main webpage at [www.dep.wv.gov](http://www.dep.wv.gov).

It should be noted that proposed Interpretive Rule 47CSR62 will directly impact what kind of submittals and documentation will satisfy the above mentioned statutory requirements. More information about the proposed interpretive rule can be found [here](http://www.dep.wv.gov/tanks). Please visit [www.dep.wv.gov/tanks](http://www.dep.wv.gov/tanks) to see the latest information available on the implementation of the AST Program. Again, thank you for registering your tank(s) with the West Virginia DEP.

cc: Tank Operator

Please do not reply to this email.

West Virginia DEP

000022



**From:** [dep\\_online@wv.gov](mailto:dep_online@wv.gov)  
**To:** [stmarvs@gomart.com](mailto:stmarvs@gomart.com)  
**Subject:** AST Tank Tier Determination  
**Date:** Friday, September 04, 2015 9:28:03 AM  
**Attachments:** [ATTACHMENT.pdf](#)

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Division of Water and Waste  
Management  
601 57th Street SE  
Charleston, WV 25304  
Phone: (304) 926-0495  
Fax Number: (304) 926-0463

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet  
Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

September 4, 2015

**Aboveground Storage Tank (AST) Registration**

Dear ST MARYS REFINING CO,

Thank you for registering your aboveground storage tank(s) with the West Virginia Department of Environmental Protection (DEP). Your registration, or your subsequent modification or transfer of ownership, has been reviewed and determined *administratively* complete. Below, DEP is providing you with important information regarding the tank(s).

On March 14, 2015, the 2015 Legislature passed Senate Bill 423 to amend the Aboveground Storage Tank Act. The amended Act became effective June 12, 2015, and places emphasis on the tanks that pose the most risk to human health and the environment. It takes into account size, location and contents of a tank and sets out tiered regulatory requirements. To help you better understand the information we are providing in the table below, please see the attached document. You can also go to [www.dep.wv.gov/tanks](http://www.dep.wv.gov/tanks) for additional information, including information related to the upcoming 2016 Legislative Rule-Making.

TANK REGISTRATION NUMBER	
Tank Tier Determination	Level 1
Reason for Level 1 or Level 2 determination	Capacity
Owner's Description of Tank	502
County Tank is Located	Pleasants
Operational Status of Tank	Currently in use
Identity of and Distance to Nearest	SAINT MARYS well 5

000023

WV Groundwater Public Water Supply Intake	WELL NO5 Distance 3 miles
Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(19)? Yes/No	No
Identity of and Distance to Nearest WV Surface Water Downstream Public Water Supply Intake	WVAWC - HUNTINGTON DIST 40TH STREET - HUNTINGTON GUYANDOTTE STATION INTAKE - OHIO RIVER Distance 162 miles
Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(20)? Yes/No	No
Tank is in WV Zone of Peripheral Concern (ZPC) as defined in §22-30-3(21)? Yes/No	No

<b>TANK REGISTRATION NUMBER</b>	<b>037-00000017</b>
---------------------------------	---------------------

Tank Tier Determination	Level 1
Reason for Level 1 or Level 2 determination	Capacity
Owner's Description of Tank	88
County Tank is Located	Pleasants
Operational Status of Tank	Temporarily Out of Service
Identity of and Distance to Nearest WV Groundwater Public Water Supply Intake	SAINT MARYS well 5 WELL NO5 Distance 3 miles
Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(19)? Yes/No	No
Identity of and Distance to Nearest WV Surface Water Downstream Public Water Supply Intake	WVAWC - HUNTINGTON DIST 40TH STREET - HUNTINGTON GUYANDOTTE STATION INTAKE - OHIO RIVER Distance 162 miles
Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(20)? Yes/No	No
Tank is in WV Zone of Peripheral Concern (ZPC) as defined in §22-30-3(21)? Yes/No	No

<b>TANK REGISTRATION</b>
--------------------------

**NUMBER** 037-0000018

Tank Tier Determination	Level 1
Reason for Level 1 or Level 2 determination	Capacity
Owner's Description of Tank	501
County Tank is Located	Pleasants
Operational Status of Tank	Currently in use
Identity of and Distance to Nearest	SAINT MARYS well 5
WV Groundwater Public Water Supply Intake	WELL NO5 Distance 3 miles
Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(19)? Yes/No	No
Identity of and Distance to Nearest	WVAWC - HUNTINGTON DIST 40TH STREET - HUNTINGTON
WV Surface Water Downstream Public Water Supply Intake	GUYANDOTTE STATION INTAKE - OHIO RIVER Distance 162 miles
Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(20)? Yes/No	No
Tank is in WV Zone of Peripheral Concern (ZPC) as defined in §22-30-3(21)? Yes/No	No

**TANK REGISTRATION NUMBER** 037-0000019

Tank Tier Determination	Level 1
Reason for Level 1 or Level 2 determination	Capacity
Owner's Description of Tank	71
County Tank is Located	Pleasants
Operational Status of Tank	Currently in use
Identity of and Distance to Nearest	SAINT MARYS well 5
WV Groundwater Public Water Supply Intake	WELL NO5 Distance 3 miles
Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(19)? Yes/No	No
Identity of and Distance to Nearest	WVAWC - HUNTINGTON DIST 40TH STREET - HUNTINGTON
WV Surface Water	GUYANDOTTE STATION INTAKE - OHIO RIVER

Downstream Public Water Supply Intake Distance 162 miles

Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(20)?  
Yes/No No

Tank is in WV Zone of Peripheral Concern (ZPC) as defined in §22-30-3(21)? Yes/No No

**TANK REGISTRATION NUMBER 037-00000020**

Tank Tier Determination Level 1

Reason for Level 1 or Level 2 determination Capacity

Owner's Description of Tank 73

County Tank is Located Pleasants

Operational Status of Tank Temporarily Out of Service

Identity of and Distance to Nearest SAINT MARYS well 5

WV Groundwater Public Water Supply Intake WELL NO5 Distance 3 miles

Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(19)? Yes/No No

Identity of and Distance to Nearest WVAWC - HUNTINGTON DIST 40TH STREET - HUNTINGTON  
WV Surface Water GUYANDOTTE STATION INTAKE - OHIO RIVER  
Downstream Public Water Supply Intake Distance 162 miles

Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(20)?  
Yes/No No

Tank is in WV Zone of Peripheral Concern (ZPC) as defined in §22-30-3(21)? Yes/No No

**TANK REGISTRATION NUMBER 037-00000021**

Tank Tier Determination Level 1

Reason for Level 1 or Level 2 determination Contents

Owner's Description of Tank 60C

County Tank is Located Pleasants

Operational Status of Tank Currently in use



Identity of and Distance to Nearest WV Groundwater Public Water Supply Intake SAINT MARYS well 5 WELL NO5 Distance 2 miles  
 Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(19)? Yes/No No  
 Identity of and Distance to Nearest WV Surface Water Downstream Public Water Supply Intake WVAWC - HUNTINGTON DIST 40TH STREET - HUNTINGTON GUYANDOTTE STATION INTAKE - OHIO RIVER Distance 162 miles  
 Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(20)? Yes/No No  
 Tank is in WV Zone of Peripheral Concern (ZPC) as defined in §22-30-3(21)? Yes/No No

**TANK REGISTRATION NUMBER 037-0000022**

Tank Tier Determination Level 1  
 Reason for Level 1 or Level 2 determination Contents  
 Owner's Description of Tank 60AB  
 County Tank is Located Pleasants  
 Operational Status of Tank Currently in use  
 Identity of and Distance to Nearest WV Groundwater Public Water Supply Intake SAINT MARYS well 5 WELL NO5 Distance 2 miles  
 Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(19)? Yes/No No  
 Identity of and Distance to Nearest WV Surface Water Downstream Public Water Supply Intake WVAWC - HUNTINGTON DIST 40TH STREET - HUNTINGTON GUYANDOTTE STATION INTAKE - OHIO RIVER Distance 162 miles  
 Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(20)? Yes/No No  
 Tank is in WV Zone of Peripheral Concern (ZPC) as defined in §22-30-3(21)? Yes/No No

**TANK REGISTRATION NUMBER 037-00090023**

Tank Tier Determination Level 1  
Reason for Level 1 or Level 2 determination Capacity  
Owner's Description of Tank 72  
County Tank is Located Pleasants  
Operational Status of Tank Temporarily Out of Service  
Identity of and Distance to Nearest SAINT MARYS well 5  
WV Groundwater Public Water Supply Intake WELL NO5 Distance 3 miles  
Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(19)? Yes/No No  
Identity of and Distance to Nearest WVAWC - HUNTINGTON DIST 40TH STREET - HUNTINGTON  
WV Surface Water Downstream Public Water Supply Intake GUYANDOTTE STATION INTAKE - OHIO RIVER Distance 162 miles  
Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(20)? Yes/No No  
Tank is in WV Zone of Peripheral Concern (ZPC) as defined in §22-30-3(21)? Yes/No No

**TANK REGISTRATION NUMBER 037-00000024**

Tank Tier Determination Level 1  
Reason for Level 1 or Level 2 determination Capacity  
Owner's Description of Tank 503  
County Tank is Located Pleasants  
Operational Status of Tank Currently in use  
Identity of and Distance to Nearest SAINT MARYS well 5  
WV Groundwater Public Water Supply Intake WELL NO5 Distance 3 miles  
Tank is in WV Source Water Protection Area (SWPA) as defined in §22-30-3(19)? Yes/No No  
Identity of and Distance to WVAWC - HUNTINGTON DIST

Nearest WV Surface Water Downstream Public Water Supply Intake	40TH STREET - HUNTINGTON GUYANDOTTE STATION INTAKE - OHIO RIVER Distance 162 miles
Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(20)? Yes/No	No
Tank is in WV Zone of Peripheral Concern (ZPC) as defined in §22-30- 3(21)? Yes/No	No

<b>TANK REGISTRATION NUMBER</b>	<b>037-00000025</b>
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Tank Tier Determination	Level 1
Reason for Level 1 or Level 2 determination	Capacity
Owner's Description of Tank	89
County Tank is Located	Pleasants
Operational Status of Tank	Temporarily Out of Service
Identity of and Distance to Nearest WV Groundwater Public Water Supply Intake	SAINT MARYS well 5 WELL NO5 Distance 3 miles
Tank is in WV Source Water Protection Area (SWPA) as defined in §22- 30-3(19)? Yes/No	No
Identity of and Distance to Nearest WV Surface Water Downstream Public Water Supply Intake	WVAWC - HUNTINGTON DIST 40TH STREET - HUNTINGTON GUYANDOTTE STATION INTAKE - OHIO RIVER Distance 162 miles
Tank is in WV Zone of Critical Concern (ZCC) as defined in §22-30-3(20)? Yes/No	No
Tank is in WV Zone of Peripheral Concern (ZPC) as defined in §22-30- 3(21)? Yes/No	No

You may view a map of the ZCC, ZPC and SWPA coverage areas by going to [tagis.dep.wv.gov/WVWaterPlan](http://tagis.dep.wv.gov/WVWaterPlan) and completing the following steps:

- 1. Click Agree
- 2. Click GIS Layers
- 3. Check DHHR Source Water Protection Area

- a. Click the arrow beside the DHHR Source Water Box
- b. Check Sublayer SB423 SWPA, SB423 ZCC and/or SB423 ZPC
- 4. To Search:
  - a. You may search on an address using the search tool at the top right of page, or
  - b. You may click the Red "bulls-eye" icon, at the top middle of page
    - At the top of the bulls-eye pop-up box, you can choose to find a location by address (mailbox icon) or coordinates (pushpin icon).

Be aware, the West Virginia Department of Health and Human Resources (DHHR) recently revised the State's Zones of Critical Concern (ZCC). So, if DEP provided you with information in the past about your tanks being in or out of a Zone of Critical Concern, the current information may differ as the boundaries of the above-mentioned areas have changed.

Pursuant to §22-30-9, the operator and/or owner of Level 1 and Level 2 regulated ASTs must submit a spill prevention and response plan or the equivalent to DEP for each registered aboveground storage tank by December 9, 2015 . Guidance can be found at [www.dep.wv.gov/tanks](http://www.dep.wv.gov/tanks). If you have already submitted a spill prevention and response plan or equivalent to DEP for each registered aboveground storage tank, you have already met this submittal requirement, and do not have to resubmit.

**Please do not reply to this email.**

West Virginia DEP

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west virginia department of environmental protection

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Division of Water and Waste Management  
 601 57<sup>th</sup> Street SE  
 Charleston, WV 25304  
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Earl Ray Tomblin, Governor  
 Randy C. Huffman, Cabinet Secretary  
 www.dep.wv.gov

### **AST ACT DEFINITION OF AN ABOVEGROUND STORAGE TANK:**

“Aboveground storage tank” or “tank” or “AST” means a device made to contain an accumulation of more than 1,320 gallons of fluids that are liquid at standard temperature and pressure, which is constructed primarily of nonearthen materials, including concrete, steel, plastic or fiberglass reinforced plastic, which provide structural support, more than 90% of the capacity of which is above the surface of the ground, and includes all ancillary pipes and dispensing systems up to the first point of isolation. This includes stationary devices which are permanently affixed, and mobile devices which remain in one location on a continuous basis for 365 or more days. A device meeting this definition containing hazardous waste subject to regulation under 40 C. F. R. Parts 264 and 265, exclusive of tanks subject to regulation under 40 C. F. R. § 265.201 is included in this definition but is not a regulated tank.

The following categories of devices are not Aboveground Storage Tanks (ASTs), as defined in the Act:

1. Shipping containers that are subject to state or federal laws or regulations governing the transportation of hazardous materials, including, but not limited to, railroad freight cars subject to federal regulation under the Federal Railroad Safety Act, 49 U. S. C. §§20101-2015, as amended, including, but not limited to, federal regulations promulgated thereunder at 49 C. F. R. Parts 172, 173 or 174;
2. Barges or boats subject to federal regulation under the United States Coast Guard, United States Department of Homeland Security, including, but not limited to, federal regulations promulgated at C. F. R. 1, *et seq.* or subject to other federal law governing the transportation of hazardous materials;
3. Swimming pools;
4. Process vessels;
5. Devices containing drinking water for human or animal consumption, surface water or groundwater, demineralized water, noncontact cooling water or water stored for fire or emergency purposes;
6. Devices containing food or food-grade materials used for human or animal consumption and regulated under the Federal Food, Drug and Cosmetic Act (21 U. S. C. §301-392);
7. Except when located in a zone of critical concern, a device located on a farm, the contents of which are used exclusively for farm purposes and not for commercial distribution;
8. Devices holding wastewater that is being actively treated or processed (e.g., clarifier, chlorine contact chamber, batch reactor, etc.);
9. Empty tanks held in inventory or offered for sale;
10. Pipeline facilities, including gathering lines, regulated under the Natural Gas Pipeline Safety Act of 1968 or the Hazardous Liquid Pipeline Safety Act of 1979, or an intrastate pipeline facility regulated by the West Virginia Public Service Commission or otherwise regulated under any state

law comparable to the provisions of either the Natural Gas Pipeline Safety Act of 1968 or the Hazardous Liquid Pipeline Safety Act of 1979;

11. Liquid traps, atmospheric and pressure vessels, or associated gathering lines related to oil or gas production and gathering operations; and
12. Electrical equipment such as transformers, circuit breakers and voltage regulator transformers.

**REGULATED LEVEL 1 ABOVEGROUND STORAGE TANK:**

- An AST located within a zone of critical concern, source water protection area, public surface water influenced groundwater supply source area, or any AST system designated by the secretary as a level 1 regulated tank; or
- An AST that contains substances defined in section 101(14) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) as a “hazardous substance” (42 U. S. C. § 9601(14)); or is on EPA’s “Consolidated List of Chemicals Subject to the Emergency Planning and Community Right to Know Act (EPCRA), CERCLA, and §112(r) of the Clean Air Act (CAA)” (known as “the List of Lists”) as provided by 40 C. F. R. §§ 355, 372, 302, and 68 in a concentration of one percent or greater regardless of the AST’s location, except ASTs containing petroleum are not “level 1 regulated tanks” based solely upon containing constituents recorded on the CERCLA lists; or,
- An AST with a capacity of 50,000 gallons or more, regardless of its contents or location.

**REGULATED LEVEL 2 ABOVEGROUND STORAGE TANK** is an AST that is located within a zone of peripheral concern that is not a level 1 regulated tank.

**ALL OTHER ABOVEGROUND STORAGE TANKS** must comply with the following two AST Act requirements, which are in addition to any other existing regulatory requirements (e.g., SPCC, WV Groundwater Protection Act, etc.):

- To be registered with DEP
- To be labeled with the following information:
  - the tank registration number, once it has been issued by the West Virginia Department of Environmental Protection;
  - the emergency contact telephone number for the owner or operator of the tank; and
  - the telephone number for the DEP’s Spill Reporting Hotline, which is 1-800-642-3074.

*(DEP is recommending that AST labels or markings be placed at least 3 feet above ground level, and be clearly visible and legible from a public roadway, public right-of-way or from outside the containment area. Also, the lettering should be high-contrast colors, and should be at least 1 ½ inches in height or larger. If signs are used instead of labels, it is recommended they be at least 18” x 24” in size. Labels or markings should be kept clearly visible and legible at all times.)*

**KEY TO TANK STATUS:**

<b>C</b>	<b>Currently in Use</b> -- The tank is operational at this time
<b>T</b>	<b>Temporarily Out of Service</b> -- means a tank that may contain material but that is not currently in use receiving or dispensing fluid for one <u>year</u> , but whose active use is intended in the future
<b>N</b>	<b>Non-Operational</b> -- The tank is empty, and fluids will not be deposited in or dispensed from the tank on or after June 6, 2015. (A tank that met the definition of currently in use or temporarily out of service on or after June 6, 2015 cannot have its status changed to non-operational.)

<b>P</b>	<b>Permanently Out of Service -- The tank is empty, clean, and rendered incapable of holding fluid</b>
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## LIST OF LISTS

### Consolidated List of Chemicals Subject to the Emergency Planning and Community Right- To-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act

- EPCRA Section 302 Extremely Hazardous Substances
- CERCLA Hazardous Substances
- EPCRA Section 313 Toxic Chemicals
- CAA 112(r) Regulated Chemicals for Accidental Release Prevention



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## LIST OF LISTS

### **Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act**

This consolidated chemical list includes chemicals subject to reporting requirements under the Emergency Planning and Community Right-to-Know Act (EPCRA), also known as Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and section 112(r) of the Clean Air Act (CAA). This consolidated list does not include all hazardous chemicals subject to the reporting requirements in EPCRA sections 311 and 312, for which material safety data sheets (MSDS) must be developed under the Hazard Communication Standard (29 CFR 1910.1200). These hazardous chemicals are identified by broad criteria, rather than by enumeration. There are over 500,000 products that satisfy the criteria. See 40 CFR Part 370 for more information. This consolidated list has been prepared to help firms handling chemicals determine whether they need to submit reports under sections 302 and 313 of EPCRA and determine if releases of chemicals are reportable under section 102 and 103 of CERCLA and section 304 of EPCRA. It will also help firms determine whether they will be subject to accident prevention regulations under CAA section 112(r). Separate lists are also provided of Resource Conservation and Recovery Act (RCRA) waste streams and unlisted hazardous wastes, of radionuclides reportable under CERCLA and of definitions or explanation of chemical categories listed under EPCRA section 313 and CERCLA. These lists should be used as a reference tool, not as a definitive source of compliance information. Compliance information for EPCRA is published in the Code of Federal Regulations (CFR), 40 CFR parts 355, 370, and 372. Compliance information for CERCLA is published in 40 CFR part 302 and for CAA section 112(r) is published in 40 CFR part 68.

The chemicals on the consolidated list are ordered both by the Chemical Abstracts Service (CAS) registry number and alphabetically. Categories of chemicals which generally do not have CAS registry numbers, but which are cited under CERCLA, have Not Applicable (N.A.) listed in place of the CAS number. If the category of chemical is an EPCRA section 313, then the section 313 category code is also included in the CAS number column.

The lists include chemicals referenced under five federal statutory provisions, discussed below. More than one chemical name may be listed for one CAS number because the same chemical may appear on different lists under different names. For example, for CAS number 8001-35-2, the names toxaphene (from the section 313 list), camphechlor (from the section 302 list), and camphene, octachloro-(from the CERCLA list) all appear on this consolidated list. The chemical names on the consolidated lists generally are those names used in the regulatory programs developed under EPCRA, CERCLA, and CAA section 112(r), but each chemical may have other synonyms that do not appear on these lists.

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
N-Nitrosodiethanolamine	1116-54-7			1		U173	
Propane sultone	1120-71-4			10	313	U193	
1,3-Propane sultone	1120-71-4			10	X	U193	
Nitrocyclohexane	1122-60-7	500	500				
Pyridine, 4-nitro-, 1-oxide	1124-33-0	500/10,000	500				
Metolcarb	1129-41-5	100/10,000	1,000	1,000		P190	
Cycloate	1134-23-2				313		
Decabromodiphenyl oxide	1163-19-5				313		
Ferric ammonium citrate	1185-57-5			1,000			
Dichlobenil	1194-65-6			100			
Xylenol	1300-71-6			1,000			
Arsenic pentoxide	1303-28-2	100/10,000	1	1	313c	P011	
Arsenic disulfide	1303-32-8			1	313c		
Arsenic trisulfide	1303-33-9			1	313c		
Cadmium oxide	1306-19-0	100/10,000	100		313c		
Antimony trioxide	1309-64-4			1,000	313c		
Potassium hydroxide	1310-58-3			1,000			
Sodium hydroxide	1310-73-2			1,000			
Molybdenum trioxide	1313-27-5				313		
Thorium dioxide	1314-20-1				313		
Thallic oxide	1314-32-5			100	313c	P113	
Vanadium pentoxide	1314-62-1	100/10,000	1,000	1,000	313c	P120	
Sulfur phosphide	1314-80-3			100		U189	
Zinc phosphide	1314-84-7	500	100	100	313c	P122	
Zinc phosphide (conc. <= 10%)	1314-84-7	500	100	100	313c	U249	
Zinc phosphide (conc. > 10%)	1314-84-7	500	100	100	313c	P122	
Lead sulfide	1314-87-0			10	313c		
2,4,5-T amines	1319-72-8			5,000			
Cresol (mixed isomers)	1319-77-3			100	313	U052	
2,4-D Esters	1320-18-9			100	X		
2,4-D propylene glycol butyl ether ester	1320-18-9			100	313		
Nitrotoluene	1321-12-6			1,000			
Arsenic trioxide	1327-53-3	100/10,000	1	1	313c	P012	
Arsenous oxide	1327-53-3	100/10,000	1	1	313c	P012	
Xylene (mixed isomers)	1330-20-7			100	313	U239	
Zinc borate	1332-07-6			1,000	313c		
Asbestos (friable)	1332-21-4			1	313		
Hydrogen	1333-74-0						10,000
Sodium bifluoride	1333-83-1			100			
Lead subacetate	1335-32-6			10	313c	U146	
Hexachloronaphthalene	1335-87-1				313		
Ammonium hydroxide	1336-21-6			1,000	X		
PCBs	1336-36-3			1	X		
Polychlorinated biphenyls	1336-36-3			1	313		
Methyl ethyl ketone peroxide	1338-23-4			10		U160	
Naphthenic acid	1338-24-5			100			
Ammonium bifluoride	1341-49-7			100			

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Ethane, 1,1'-thiobis[2-chloro-	505-60-2	500	500		X		
Ethanethiol	75-08-1						10,000
Ethane, 1,1,2-trichloro-1,2,2,-trifluoro-	76-13-1				X		
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester	30558-43-1			5,000		U394	
Ethanimidothioic acid, N-[[methylamino)carbonyl]	16752-77-5	500/10,000	100	100		P066	
Ethanol, 1,2-dichloro-, acetate	10140-87-1	1,000	1,000				
Ethanol, 2-ethoxy-	110-80-5			1,000	X	U359	
Ethanol, 2,2'-oxybis-, dicarbamate	5952-26-1			5,000		U395	
Ethene	74-85-1				X		10,000
Ethene, bromotrifluoro-	598-73-2						10,000
Ethene, chloro-	75-01-4			1	X	U043	10,000
Ethene, chlorotrifluoro-	79-38-9						10,000
Ethene, 1,1-dichloro-	75-35-4			100	X	U078	10,000
Ethene, 1,1-difluoro-	75-38-7						10,000
Ethene, ethoxy-	109-92-2						10,000
Ethene, fluoro-	75-02-5						10,000
Ethene, methoxy-	107-25-5						10,000
Ethene, tetrafluoro-	116-14-3						10,000
Ethion	563-12-2	1,000	10	10			
Ethoprop	13194-48-4	1,000	1,000		313		
Ethoprophos	13194-48-4	1,000	1,000		X		
2-Ethoxyethanol	110-80-5			1,000	313	U359	
2-(1-(Ethoxyimino) butyl)-5-(2-(ethylthio)propyl)-3-hydroxyl-2-cyclohexen-1-one	74051-80-2				X		
2-((Ethoxyl((1-methylethyl)amino]phosphinothioyl]oxy) benzoic acid 1-methylethyl ester	25311-71-1				X		
Ethyl acetate	141-78-6			5,000		U112	
Ethyl acetylene	107-00-6						10,000
Ethyl acrylate	140-88-5			1,000	313	U113	
3-((Ethylamino)methoxyphosphinothioyl]oxy)-2-butenoic acid, 1-methylethyl ester	31218-83-4				X		
Ethylbenzene	100-41-4			1,000	313		
Ethylbis(2-chloroethyl)amine	538-07-8	500	500				
Ethyl carbamate	51-79-6			100	X	U238	
Ethyl chloride	75-00-3			100	X		10,000
Ethyl chloroformate	541-41-3				313		
Ethyl-2-(((4-chloro-6-methoxyprimidin-2-yl)amino)carbonyl)amino)sulfonyl)benzoate	90982-32-4				X		
Ethyl cyanide	107-12-0	500	10	10		P101	10,000
Ethyl dipropylthiocarbamate	759-94-4				313		
Ethylene	74-85-1				313		10,000
Ethylenebisdithiocarbamic acid, salts and esters	N171				313		

NAME	CAS/313 Category Codes	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
Methyl isothiocyanate	556-61-6	500	500		313		
2-Methylacetonitrile	75-86-5	1,000	10	10	313	P069	
Methyl mercaptan	74-93-1	500	100	100	313s	U153	10,000
Methylmercuric dicyanamide	502-39-6	500/10,000	500		313c		
Methyl methacrylate	80-62-6			1,000	313	U162	
N-Methylolacrylamide	924-42-5				313		
Methyl parathion	298-00-0	100/10,000	100	100	313	P071	
Methyl phenkapton	3735-23-7	500	500				
Methyl phosphonic dichloride	676-97-1	100	100				
2-Methylpropene	115-11-7						10,000
2-Methylpyridine	109-06-8			5,000	313	U191	
N-Methyl-2-pyrrolidone	872-50-4				313		
Methyl tert-butyl ether	1634-04-4			1,000	313		
Methyl thiocyanate	556-64-9	10,000	10,000				20,000
Methylthiouracil	56-04-2			10		U164	
Methyltrichlorosilane	75-79-6	500	500				5,000
Methyl vinyl ketone	78-94-4	10	10				
Metiram	9006-42-2				313		
Metolcarb	1129-41-5	100/10,000	1,000	1,000		P190	
Metribuzin	21087-64-9				313		
Mevinphos	7786-34-7	500	10	10	313		
Mexacarbate	315-18-4	500/10,000	1,000	1,000		P128	
Michler's ketone	90-94-8				313		
Mitomycin C	50-07-7	500/10,000	10	10		U010	
Molinate	2212-67-1				313		
Molybdenum trioxide	1313-27-5				313		
Monochloropentafluoroethane	76-15-3				313		
Monocrotophos	6923-22-4	10/10,000	10				
Monoethylamine	75-04-7			100			10,000
Monomethylamine	74-89-5			100			10,000
Monuron	150-68-5				313		
Muscimol	2763-96-4	500/10,000	1,000	1,000		P007	
Mustard gas	505-60-2	500	500		313		
Myclobutanil	88671-89-0				313		
Nabam	142-59-6				313		
Naled	300-76-5			10	313		
Naphthalene	91-20-3			100	313	U165	
1,5-Naphthalene diisocyanate	3173-72-6				313#		
1-Naphthalenol, methylcarbamate	63-25-2			100	X	U279	
Naphthenic acid	1338-24-5			100			
1,4-Naphthoquinone	130-15-4			5,000		U166	
alpha-Naphthylamine	134-32-7			100	313	U167	
beta-Naphthylamine	91-59-8			10	313	U168	
Nickel	7440-02-0			100	313		
Nickel ammonium sulfate	15699-18-0			100	313c		
Nickel carbonyl	13463-39-3	1	10	10	313c	P073	1,000
Nickel chloride	7718-54-9			100	313c		
Nickel chloride	37211-05-5			100	313c		
Nickel Compounds	N495			&	313		
Nickel cyanide	557-19-7			10	313c	P074	
Nickel hydroxide	12054-48-7			10	313c		