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May 2, 2025

Mark Johnston Assistant Chief Deputy Regulatory Services Division Oregon State Fire Marshal 3565 Trelstad Ave. SE Salem, OR 97317 Osfm.serc@osfm.oregon.gov

Re: Department of Transportation's Hazardous Materials: Oil Spill Response Plans and Information Sharing for High-Hazard Flammable Trains (FAST Act) final rule, 84 Fed. Reg. 6910 (February 28, 2019)

Dear Mr. Johnston:

Pursuant to the above referenced regulation, railroads are required to provide to State Emergency Response Commissions (SERC) and Tribal Emergency Response Commissions with High Hazard Flammable Train (HHFT) reports for areas where HHFTs are operated. An HHFT is defined as a train transporting 35 cars in total, or 20 cars consecutively, that contain covered flammable liquids, notably crude oil and ethanol. Additionally, carriers are required to provide "reports when there is a material change in the volume (+/- 25%) of those trains."

The attached report, which is compliant with this regulation, provides:

- 1. A reasonable estimate of the number of HHFTs that the railroad expects to operate each week, through each county within the State or through each tribal jurisdiction;
- 2. The potential routes over which the HHFTs will operate;
- 3. A description of the hazardous materials being transported and applicable emergency response information:
- 4. An HHFT point of contact:
- 5. Description of relevant Oil Spill Response Plan Response Zone and contact information for the carrier's Qualified Individual (QI).

BE ADVISED, this report is provided pursuant to 49 CFR § 174.312, administered by the United States Department of Transportation (DOT). This regulation requires railroads to provide certain information about high-hazard flammable trains (HHFTs) to emergency



response authorities. Receiving agencies "shall further distribute the information to the appropriate local authorities at their request." 49 CFR § 174.312(a). In the Fixing America's Surface Transportation (FAST) Act of 2015, Congress acknowledged the need to prevent the release of this information to unauthorized persons. Thus, 49 CFR § 174.312(c)(3) provides an avenue for railroads to indicate that the data reported is "security sensitive or proprietary and exempt from public disclosure."

The data provided in this report is security-sensitive. This determination is based on documented activities and aspirations of foreign terrorist groups and domestic extremists as well as threat assessments, analyses, and bulletins produced by federal government law enforcement and security agencies, notably the Federal Bureau of Investigation (FBI), multiple components of the Department of Homeland Security (DHS), including the Transportation Security Administration (TSA), and the interagency National Counterterrorism Center (NCTC). Further distribution should be limited to those with a need to know. Publication will exacerbate risks to security and public safety.

In the event that you are asked to disclose or provide this information via an open records or other request to which your or another agency believes this information is responsive, BNSF requires that you immediately notify me at 817-352-3652 or by email <a href="mailto:Patrick.Brady@bnsf.com">Patrick.Brady@bnsf.com</a> so that BNSF can determine whether legal or other action to prevent disclosure is appropriate.

If there is a State or Tribal agent or agency which is more appropriate to receive this report, please email me with that contact information.

Sincerely,

Patrick Brady General Director

Hazardous Materials Safety

BNSF Railway

Enclosure

cc: Jeff Briggs, Gen Dir Homeland Security, BNSF

## **HHFT Train Transport in Oregon by County**

### Oregon

County	Crude	Ethanol	Other
DESCHUTES	0	0	0-1
JEFFERSON	0	0	0-1
KLAMATH	0	0	0-1
MULTNOMAH	1-4	0	2-5
WASCO	0	0	0-1



Warning: This report is provided pursuant to 49 CFR § 174.312, administered by the United States Department of Transportation (DOT). This regulation requires railroads to provide certain information to the appropriate local authorities at their request." 49 CFR § 174.312(a). In the Fixing
America's Surface Transportation (FAST) Act of 2015, Congress acknowledged the need to prevent the release of this information to unauthorized persons. Thus, 49 CFR § 174.312(c)(3) provides an avenue for railroads to indicate surface security sensitive or proprietary and exempt from public disclosure."

The data provided in this report is security-sensitive. This determination is based on documented activities and applications of foreign terrorist groups and domestic extremists as well as threat asserting sensitive. It is determination for the Department of Hameland Security (DHS), including the Transportation Security Administration (TSA), and the interagency National Counterterrorism Center (NCTC). Further distribution should be limited to those with a need to know. Publication will exceed to those with a need to know. Publication will exceed to the control of the public safety.



### SENSITIVE SECURITY INFORMATION (SSI) AND TRADE SECRET/BUSINESS CONFIDENTIAL INFORMATION – DO NOT DISCLOSE

**Period:** Q4 2024

State: OR

STCC	UN/NA ID Number	Proper Shipping Name	DOT Hazard Class
4810560	1993	WASTE FLAMMABLE LIQUIDS, N.O.S.	3
4906333	1202	DIESEL FUEL	3
4907265	2055	STYRENE MONOMER, STABILIZED	3
4907439	3295	HYDROCARBONS, LIQUID, N.O.S.	3
4908105	1090	ACETONE	3
4908125	1131	CARBON DISULFIDE	3
4908175	1203	GASOLINE	3
4908177	1203	GASOLINE	3
4908178	1203	GASOLINE	3
4908179	3475	ETHANOL AND GASOLINE MIXTURE	3
4908180	3475	ETHANOL AND GASOLINE MIXTURE	3
4908183	1208	HEXANES	3
4908188	1262	OCTANES	3
4909152	1987	ALCOHOLS, N.O.S.	3
4909205	1219	ISOPROPANOL	3
4909215	1863	FUEL, AVIATION, TURBINE ENGINE	3
4909230	1230	METHANOL	3
4909305	1294	TOLUENE	3
4909382	1268	PETROLEUM DISTILLATES, N.O.S.	3
4910185	1993	FLAMMABLE LIQUIDS, N.O.S.	3
4910191	1267	PETROLEUM CRUDE OIL	3
4910535	1993	FLAMMABLE LIQUIDS, N.O.S.	3
4912043	2053	METHYL ISOBUTYL CARBINOL	3
4912185	1202	HEATING OIL, LIGHT	3
4912186	1202	DIESEL FUEL	3

### SENSITIVE SECURITY INFORMATION (SSI) AND TRADE SECRET/BUSINESS CONFIDENTIAL INFORMATION - DO NOT DISCLOSE

4912210	1202	DIESEL FUEL	3
4912285	3295	HYDROCARBONS, LIQUID, N.O.S.	3
4912498	1993	DIESEL FUEL	3
4913001	1993	COMBUSTIBLE LIQUID,N.O.S.	CL
4913333	1993	COMBUSTIBLE LIQUID, N.O.S.	CL
4914040	1993	COMBUSTIBLE LIQUID, N.O.S.	CL
4914109	1993	COMBUSTIBLE LIQUID,N.O.S.	CL
4914110	1202	GAS OIL	CL
4914131	1202	DIESEL FUEL	CL
4914164	1993	FUEL OIL	CL
4914170	1993	DIESEL FUEL	CL
4914849	1993	COMBUSTIBLE LIQUID,N.O.S.	CL
4915378	1993	COMBUSTIBLE LIQUID, N.O.S.	CL

WARNING: This record contains Sensitive Security Information that is controlled under 49 CFR parts 15 and 1520. No part of this record may be disclosed to persons without a "need to know", as defined in 49 CFR parts 15 and 1520, except with the written permission of the Administrator of the Transportation Security Administration or the Secretary of Transportation. Unauthorized release may result in civil penalty or other action. For U.S. government agencies, public disclosure is governed by 5 U.S.C. 552 and 49 CFR parts 15 and 1520.

## GUIDE FLAMMABLE LIQUIDS 127 (WATER-MISCIBLE)

### **POTENTIAL HAZARDS**

### FIRE OR EXPLOSION

HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.

CAUTION: Ethanol (UN1170) can burn with an invisible flame. Use an alternate method of detection (thermal camera, broom handle, etc.)

- · Vapors may form explosive mixtures with air.
- · Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks, etc.).
- Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a (P) may polymerize explosively when heated or involved in a fire.
- · Runoff to sewer may create fire or explosion hazard.
- · Containers may explode when heated.
- · Many liquids will float on water.

### HEALTH

- Inhalation or contact with material may irritate or burn skin and eyes.
- · Fire may produce irritating, corrosive and/or toxic gases.
- · Vapors may cause dizziness or asphyxiation, especially when in closed or confined areas.
- Runoff from fire control or dilution water may cause environmental contamination.

### **PUBLIC SAFETY**

- CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Keep unauthorized personnel away.
- · Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering, but only if properly trained and equipped.

### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing provides thermal protection but only limited chemical protection.

### **EVACUATION**

### Immediate precautionary measure

Isolate spill or leak area for at least 50 meters (150 feet) in all directions.

### Large Spill

Consider initial downwind evacuation for at least 300 meters (1000 feet).

### Fire

 If tank, rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

## FLAMMABLE LIQUIDS (WATER-MISCIBLE)

### GUIDE 127

### **EMERGENCY RESPONSE**

### FIRE

CAUTION: The majority of these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

CAUTION: For fire involving UN1170, UN1987 or UN3475, alcohol-resistant foam should be used.

CAUTION: Ethanol (UN1170) can burn with an invisible flame. Use an alternate method of detection (thermal camera, broom handle, etc.)

### **Small Fire**

• Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

### Large Fire

- · Water spray, fog or alcohol-resistant foam.
- · Avoid aiming straight or solid streams directly onto the product.
- If it can be done safely, move undamaged containers away from the area around the fire.

### Fire Involving Tanks, Rail Tank Cars or Highway Tanks

- Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks in direct contact with flames.
- For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

### SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- All equipment used when handling the product must be grounded.
- · Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- · Prevent entry into waterways, sewers, basements or confined areas.
- A vapor-suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- · Use clean, non-sparking tools to collect absorbed material.

### Large Spill

- Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor, but may not prevent ignition in closed spaces.

### FIRST AID

Refer to the "General First Aid" section.

### Specific First Aid:

- · Wash skin with soap and water.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.



In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping paper and/or the "ERAP" section.

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# GUIDE FLAMMABLE LIQUIDS 128 (WATER-IMMISCIBLE)

### **POTENTIAL HAZARDS**

### FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- · Vapors may form explosive mixtures with air.
- · Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks, etc.).
- Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a (P) may polymerize explosively when heated or involved in a fire.
- · Runoff to sewer may create fire or explosion hazard.
- · Containers may explode when heated.
- · Many liquids will float on water.
- Substance may be transported hot.
- For hybrid vehicles, GUIDE 147 (lithium ion or sodium ion batteries) or GUIDE 138 (sodium batteries) should also be consulted.
- · If molten aluminum is involved, refer to GUIDE 169.

### HEALTH

**CAUTION:** Petroleum crude oil (UN1267) may contain **TOXIC** hydrogen sulphide gas.

- · Inhalation or contact with material may irritate or burn skin and eyes.
- Fire may produce irritating, corrosive and/or toxic gases.
- · Vapors may cause dizziness or asphyxiation, especially when in closed or confined areas.
- · Runoff from fire control or dilution water may cause environmental contamination.

### **PUBLIC SAFETY**

- CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- · Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering, but only if properly trained and equipped.

### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing provides thermal protection **but only limited chemical protection**.

### **EVACUATION**

### Immediate precautionary measure

• Isolate spill or leak area for at least 50 meters (150 feet) in all directions.

### Large Spill

· Consider initial downwind evacuation for at least 300 meters (1000 feet).

### Fire

 If tank, rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

## FLAMMABLE LIQUIDS (WATER-IMMISCIBLE)

### GUIDE 128

### **EMERGENCY RESPONSE**

### FIRE

CAUTION: The majority of these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective.

#### Small Fire

 Dry chemical, CO<sub>2</sub>, water spray or regular foam. If regular foam is ineffective or unavailable, use alcohol-resistant foam.

### Large Fire

- Water spray, fog or regular foam. If regular foam is ineffective or unavailable, use alcohol-resistant foam.
- · Avoid aiming straight or solid streams directly onto the product.
- If it can be done safely, move undamaged containers away from the area around the fire.

### Fire Involving Tanks, Rail Tank Cars or Highway Tanks

- Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- For petroleum crude oil, do not spray water directly into a breached tank car. This can lead to a dangerous boil over.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks in direct contact with flames.
- For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

### SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- All equipment used when handling the product must be grounded.
- · Do not touch or walk through spilled material.
- · Stop leak if you can do it without risk.
- · Prevent entry into waterways, sewers, basements or confined areas.
- · A vapor-suppressing foam may be used to reduce vapors.
- · Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean, non-sparking tools to collect absorbed material.

### Large Spill

- · Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor, but may not prevent ignition in closed spaces.

### **FIRST AID**

Refer to the "General First Aid" section.

### Specific First Aid:

- · Wash skin with soap and water.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.



In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping paper and/or the "ERAP" section.

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## GUIDE FLAMMABLE LIQUIDS 129 (WATER-MISCIBLE/NOXIOUS)

### **POTENTIAL HAZARDS**

### FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- · Vapors may form explosive mixtures with air.
- · Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks, etc.).
- Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a (P) may polymerize explosively when heated or involved in a fire.
- · Runoff to sewer may create fire or explosion hazard.
- · Containers may explode when heated.
- · Many liquids will float on water.

### HEALTH

- May cause toxic effects if inhaled or absorbed through skin.
- · Inhalation or contact with material may irritate or burn skin and eyes.
- · Fire will produce irritating, corrosive and/or toxic gases.
- · Vapors may cause dizziness or asphyxiation, especially when in closed or confined areas.
- Runoff from fire control or dilution water may cause environmental contamination.

### **PUBLIC SAFETY**

- CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- · Keep unauthorized personnel away.
- · Stay upwind, uphill and/or upstream.
- · Ventilate closed spaces before entering, but only if properly trained and equipped.

### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing provides thermal protection but only limited chemical protection.

### **EVACUATION**

### Immediate precautionary measure

Isolate spill or leak area for at least 50 meters (150 feet) in all directions.

#### Large Spil

· Consider initial downwind evacuation for at least 300 meters (1000 feet).

#### Fire

 If tank, rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

# FLAMMABLE LIQUIDS GUIDE (WATER-MISCIBLE/NOXIOUS) 129

### **EMERGENCY RESPONSE**

### FIRE

CAUTION: The majority of these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

### Small Fire

- Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.
- Do not use dry chemical extinguishers to control fires involving nitromethane (UN1261) or nitroethane (UN2842).

### Large Fire

- · Water spray, fog or alcohol-resistant foam.
- Avoid aiming straight or solid streams directly onto the product.
- If it can be done safely, move undamaged containers away from the area around the fire.

### Fire Involving Tanks, Rail Tank Cars or Highway Tanks

- Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- · Cool containers with flooding quantities of water until well after fire is out.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks in direct contact with flames.
- For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

### SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- · All equipment used when handling the product must be grounded.
- · Do not touch or walk through spilled material.
- · Stop leak if you can do it without risk.
- · Prevent entry into waterways, sewers, basements or confined areas.
- A vapor-suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean, non-sparking tools to collect absorbed material.

### Large Spill

- · Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor, but may not prevent ignition in closed spaces.

### FIRST AID

### Refer to the "General First Aid" section.

### Specific First Aid:

- Wash skin with soap and water.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.



In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping paper and/or the "ERAP" section.

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### GUIDE FLAMMABLE LIQUIDS (WATER-IMMISCIBLE/NOXIOUS) 130

### **POTENTIAL HAZARDS**

### FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- · Vapors may form explosive mixtures with air.
- · Vapors may travel to source of ignition and flash back.
- · Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks, etc.).
- · Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a (P) may polymerize explosively when heated or involved in a fire.
- · Runoff to sewer may create fire or explosion hazard.
- Containers may explode when heated.
- · Many liquids will float on water.

### HEALTH

- May cause toxic effects if inhaled or absorbed through skin.
- · Inhalation or contact with material may irritate or burn skin and eyes.
- Fire will produce irritating, corrosive and/or toxic gases.
- Vapors may cause dizziness or asphyxiation, especially when in closed or confined areas.
- Runoff from fire control or dilution water may cause environmental contamination.

### **PUBLIC SAFETY**

- CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Keep unauthorized personnel away.
- · Stay upwind, uphill and/or upstream.
- · Ventilate closed spaces before entering, but only if properly trained and equipped.

### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing provides thermal protection but only limited chemical protection.

### EVACUATION

### Immediate precautionary measure

Isolate spill or leak area for at least 50 meters (150 feet) in all directions.

· Consider initial downwind evacuation for at least 300 meters (1000 feet).

#### Fire

 If tank, rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

### GUIDE FLAMMABLE LIQUIDS (WATER-IMMISCIBLE/NOXIOUS)

130

### **EMERGENCY RESPONSE**

### FIRE

CAUTION: The majority of these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

### Small Fire

• Dry chemical, CO<sub>2</sub>, water spray or regular foam. If regular foam is ineffective or unavailable, use alcohol-resistant foam.

### Large Fire

- Water spray, fog or regular foam. If regular foam is ineffective or unavailable, use alcohol-resistant foam.
- · Avoid aiming straight or solid streams directly onto the product.
- If it can be done safely, move undamaged containers away from the area around the fire.

### Fire Involving Tanks, Rail Tank Cars or Highway Tanks

- Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- · Cool containers with flooding quantities of water until well after fire is out.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stav away from tanks in direct contact with flames.
- For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible. withdraw from area and let fire burn.

### SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- All equipment used when handling the product must be grounded.
- · Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- · Prevent entry into waterways, sewers, basements or confined areas.
- A vapor-suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean, non-sparking tools to collect absorbed material.

### Large Spill

- · Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor, but may not prevent ignition in closed spaces.

### FIRST AID

### Refer to the "General First Aid" section.

### Specific First Aid:

- · Wash skin with soap and water.
- · In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.

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# GUIDE FLAMMABLE LIQUIDS - TOXIC 131

### **POTENTIAL HAZARDS**

### HEALTH

- TOXIC; may be fatal if inhaled, ingested or absorbed through skin.
- Inhalation or contact with some of these materials will irritate or burn skin and eyes.
- Methyl chloroacetate (UN2295) is an eye irritant/lachrymator (causes flow of tears).
- · Fire will produce irritating, corrosive and/or toxic gases.
- Vapors may cause dizziness or asphyxiation, especially when in closed or confined areas.
- Runoff from fire control or dilution water may cause environmental contamination.

### FIRE OR EXPLOSION

HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.

### CAUTION: Methanol (UN1230) will burn with an invisible flame. Use an alternate method of detection (thermal camera, broom handle, etc.)

- · Vapors may form explosive mixtures with air.
- · Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks, etc.).
- · Vapor explosion and poison hazard indoors, outdoors or in sewers.
- Those substances designated with a (P) may polymerize explosively when heated or involved in a fire.
- · Runoff to sewer may create fire or explosion hazard.
- · Containers may explode when heated.
- · Many liquids will float on water.

### **PUBLIC SAFETY**

- CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- · Keep unauthorized personnel away.
- · Stay upwind, uphill and/or upstream.
- · Ventilate closed spaces before entering, but only if properly trained and equipped.

### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that is specifically recommended by the manufacturer when there is NO RISK OF FIRE.
- Structural firefighters' protective clothing provides thermal protection but only limited chemical protection.

### **EVACUATION**

### Immediate precautionary measure

Isolate spill or leak area for at least 50 meters (150 feet) in all directions.

### Spill

- For highlighted materials: see Table 1 Initial Isolation and Protective Action Distances.
- For non-highlighted materials: increase the immediate precautionary measure distance, in the downwind direction, as necessary.

#### Fire

 If tank, rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

# FLAMMABLE LIQUIDS - TOXIC GUIDE 131

### **EMERGENCY RESPONSE**

### FIRE

CAUTION: The majority of these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

CAUTION: Methanol (UN1230) will burn with an invisible flame. Use an alternate method of detection (thermal camera, broom handle, etc.)

#### Small Fire

• Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

### Large Fire

- · Water spray, fog or alcohol-resistant foam.
- If it can be done safely, move undamaged containers away from the area around the fire.
- · Dike runoff from fire control for later disposal.
- · Avoid aiming straight or solid streams directly onto the product.

### Fire Involving Tanks, Rail Tank Cars or Highway Tanks

- Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks in direct contact with flames.
- For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

### SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- All equipment used when handling the product must be grounded.
- · Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- · A vapor-suppressing foam may be used to reduce vapors.

### Small Spill

- Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
- Use clean, non-sparking tools to collect absorbed material.

### Large Spill

- Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor, but may not prevent ignition in closed spaces.

### FIRST AID

Refer to the "General First Aid" section.

### Specific First Aid:

- · Wash skin with soap and water.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.



In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping paper and/or the "ERAP" section.

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# GUIDE FLAMMABLE LIQUIDS - CORROSIVE 132

### **POTENTIAL HAZARDS**

### FIRE OR EXPLOSION

- Flammable/combustible material.
- · May be ignited by heat, sparks or flames.
- · Vapors may form explosive mixtures with air.
- · Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks, etc.).
- · Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a (P) may polymerize explosively when heated or involved in a fire.
- · Runoff to sewer may create fire or explosion hazard.
- · Containers may explode when heated.
- · Many liquids will float on water.

### HEALTH

- · May cause toxic effects if inhaled or ingested.
- · Contact with substance may cause severe burns to skin and eyes.
- · Fire will produce irritating, corrosive and/or toxic gases.
- Vapors may cause dizziness or asphyxiation, especially when in closed or confined areas.
- Runoff from fire control or dilution water may cause environmental contamination.

### **PUBLIC SAFETY**

- CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- · Keep unauthorized personnel away.
- · Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering, but only if properly trained and equipped.

### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that is specifically recommended by the manufacturer when there is NO RISK OF FIRE.
- Structural firefighters' protective clothing provides thermal protection but only limited chemical protection.

### EVACUATION

### Immediate precautionary measure

Isolate spill or leak area for at least 50 meters (150 feet) in all directions.

### Spill

- For highlighted materials: see Table 1 Initial Isolation and Protective Action Distances.
- For non-highlighted materials: increase the immediate precautionary measure distance, in the downwind direction, as necessary.

### Fire

 If tank, rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

## FLAMMABLE LIQUIDS - CORROSIVE GUIDE

### **EMERGENCY RESPONSE**

### FIRE

· Some of these materials may react violently with water.

### **Small Fire**

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

### Large Fire

- · Water spray, fog or alcohol-resistant foam.
- If it can be done safely, move undamaged containers away from the area around the fire.
- · Dike runoff from fire control for later disposal.
- · Do not get water inside containers.

### Fire Involving Tanks, Rail Tank Cars or Highway Tanks

- Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- · Cool containers with flooding quantities of water until well after fire is out.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks in direct contact with flames.
- For massive fire, use unmanned master stream devices or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

### SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- · All equipment used when handling the product must be grounded.
- · Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- · A vapor-suppressing foam may be used to reduce vapors.
- · Absorb with earth, sand or other non-combustible material.
- For **hydrazine**, absorb with DRY sand or inert absorbent (vermiculite or absorbent pads).
- Use clean, non-sparking tools to collect absorbed material.

### Large Spill

- Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor, but may not prevent ignition in closed spaces.

### FIRST AID

### Refer to the "General First Aid" section.

### Specific First Aid:

- For corrosives, in case of contact, immediately flush skin or eyes with running water for at least 30 minutes. Additional flushing may be required.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.



In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping paper and/or the "ERAP" section.

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## GUIDE SUBSTANCES - TOXIC AND/OR CORROSIVE 155 (FLAMMABLE/WATER-SENSITIVE)

### **POTENTIAL HAZARDS**

### FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- · Vapors form explosive mixtures with air: indoors, outdoors and sewers explosion hazards.
- Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks, etc.).
- · Vapors may travel to source of ignition and flash back.
- Those substances designated with a (P) may polymerize explosively when heated or involved in a fire.
- · Substance will react with water (some violently) releasing flammable, toxic or corrosive gases and runoff.
- · Corrosives in contact with metals may evolve flammable hydrogen gas.
- Containers may explode when heated or if contaminated with water.

### HEALTH

- TOXIC and/or CORROSIVE; inhalation, ingestion or contact (skin, eyes) with vapors, dusts or substance
  may cause severe injury, burns or death.
- Bromoacetates and chloroacetates are extremely irritating/lachrymators (cause eye irritation and flow of tears).
- Reaction with water or moist air may release toxic, corrosive or flammable gases.
- · Reaction with water may generate much heat that will increase the concentration of fumes in the air.
- · Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause environmental contamination.

### **PUBLIC SAFETY**

- CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- · Keep unauthorized personnel away.
- · Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering, but only if properly trained and equipped.

### PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that is specifically recommended by the manufacturer when there is NO RISK OF FIRE.
- Structural firefighters' protective clothing provides thermal protection but only limited chemical protection.

### EVACUATION

### Immediate precautionary measure

 Isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.

#### Spill

- For highlighted materials: see Table 1 Initial Isolation and Protective Action Distances.
- For non-highlighted materials: increase the immediate precautionary measure distance, in the downwind direction, as necessary.

### Fire

 If tank, rail tank car or highway tank is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

## SUBSTANCES - TOXIC AND/OR CORROSIVE (FLAMMABLE/WATER-SENSITIVE)

### GUIDE 155

### **EMERGENCY RESPONSE**

### FIRE

• Note: Most foams will react with the material and release corrosive/toxic gases.

### CAUTION: For Acetyl chloride (UN1717), use CO<sub>2</sub> or dry chemical only.

• CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

### Large Fire

- · Water spray, fog or alcohol-resistant foam.
- FOR CHLOROSILANES, DO NOT USE WATER; use alcohol-resistant foam.
- If it can be done safely, move undamaged containers away from the area around the fire.
- · Avoid aiming straight or solid streams directly onto the product.

### Fire Involving Tanks, Rail Tank Cars or Highway Tanks

- Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles.
- · Do not get water inside containers.
- · Cool containers with flooding quantities of water until well after fire is out.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks in direct contact with flames.

### SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- All equipment used when handling the product must be grounded.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- · A vapor-suppressing foam may be used to reduce vapors.
- FOR CHLOROSILANES, use alcohol-resistant foam to reduce vapors.
- · DO NOT GET WATER on spilled substance or inside containers.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Prevent entry into waterways, sewers, basements or confined areas.

#### Small Spil

- Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
- Use clean, non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal.

### FIRST AID

### Refer to the "General First Aid" section.

### Specific First Aid:

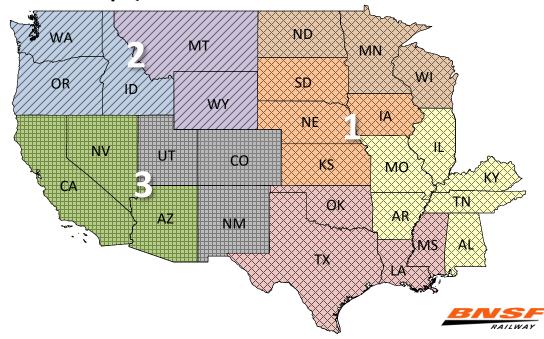
For corrosives, in case of contact, immediately flush skin or eyes with running water for at least 30 minutes. Additional flushing may be required.



In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping paper and/or the "ERAP" section.

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### **BNSF HAZMAT REGION/QUALIFIED INDIVIDUAL MAP**



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## PHMSA Response Zones



RZ 1



RZ 2



RZ3

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