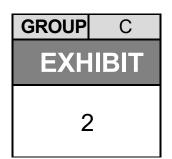


### National Transportation Safety Board Investigative Hearing

Norfolk Southern Railway general merchandise freight train 32N derailment with subsequent hazardous material release and fires, in East Palestine, Ohio, on February 3, 2023



Agency / Organization

### **Department of Transportation**

Title

# Emergency Response Guide (ERG) 2020 Guide 111 Mixed Load/Unidentified Cargo

Docket ID: DCA23HR001

## GUIDE MIXED LOAD/UNIDENTIFIED CARGO

### **POTENTIAL HAZARDS**

### FIRE OR EXPLOSION

- May explode from heat, shock, friction or contamination.
- · May react violently or explosively on contact with air, water or foam.
- May be ignited by heat, sparks or flames.
- · Vapors may travel to source of ignition and flash back.
- Containers may explode when heated.
- Ruptured cylinders may rocket.

### HEALTH

- Inhalation, ingestion or contact with substance may cause severe injury, infection, disease or death.
- High concentration of gas may cause asphyxiation without warning.
- · Contact may cause burns to skin and eyes.
- Fire or contact with water may produce irritating, toxic and/or corrosive gases.
- 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.

### 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 100 meters (330 feet) in all directions.

### **Fire**

• If tank, rail car or tank truck 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.

### MIXED LOAD/UNIDENTIFIED CARGO GUIDE

### **EMERGENCY RESPONSE**

### FIRE

**CAUTION:** Material may react with extinguishing agent.

#### **Small Fire**

• Dry chemical, CO<sub>2</sub>, water spray or regular foam.

### Large Fire

- Water spray, fog or regular foam.
- If it can be done safely, move undamaged containers away from the area around the fire.

### **Fire Involving Tanks**

- · Cool containers with flooding quantities of water until well after fire is out.
- Do not get water inside containers.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

### SPILL OR LEAK

- · Do not touch or walk through spilled material.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- All equipment used when handling the product must be grounded.
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- 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 Spill**

 Pick up with sand or other non-combustible absorbent material and place into containers for later disposal.

### Large Spill

· Dike far ahead of liquid spill for later disposal.

### FIRST AID

- Call 911 or emergency medical service.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air if it can be done safely.
- Give artificial respiration if victim is not breathing.
- Do not perform mouth-to-mouth resuscitation if victim ingested or inhaled the substance; wash face and mouth before giving artificial respiration. Use a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Shower and wash with soap and water.
- Keep victim calm and warm.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.