



U.S. Department  
of Transportation

**Research and  
Special Programs  
Administration**

400 Seventh Street, S.W.  
Washington, D.C. 20590

**AUG 14 2001**

DOT-E 11434  
(FOURTH REVISION)

**EXPIRATION DATE: July 31, 2003**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Fisher Scientific Chemical Division  
Fair Lawn, NJ
2. PURPOSE AND LIMITATION:
  - a. This exemption authorizes tank cars containing hazardous materials identified in paragraph 6, to remain standing with unloading connections attached when no product is being transferred, provided that a minimal level of monitoring, as specified in this exemption is maintained. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
  - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.302(c); § 174.67 (i) and (j) in that tank cars are not allowed to stand with unloading connections attached after unloading, except as specified herein.
5. BASIS: This exemption is based on the application of Fisher Scientific Chemical Division dated June 1, 2001, submitted in accordance with § 107.109 and additional information dated June 25, 2001, submitted in accordance with § 107.105.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

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Proper Shipping Name/ Hazardous Materials Description	Hazard Class/ Division	Identi- fication Number	Packing Group
Acetone	3	UN1090	II
Chloroform	6.1	UN1888	III
Dichloromethane	6.1	UN1593	III
Ethanol or Ethyl Alcohol	3	UN1170	II/III
Flammable liquids, n.o.s.	3	UN1993	I/II/III
Hexanes	3	UN1208	II
Isopropanol or isopropyl alcohol	3	UN1219	II
Methanol or methyl alcohol	3	UN1230	II
Petroleum distillates, n.o.s. or Petroleum products, n.o.s.	3	UN1268	I/II/III
Toluene	3	UN1294	II
Xylenes	3	UN1307	II/III

7. SAFETY CONTROL MEASURES:

a. Prescribed packagings are DOT Specification tank cars authorized for the material specified.

b. The facility operator must provide equipment capable of securing access to the portion of track on which unloading is to be conducted. This equipment must be placed in an effective location to prevent entry by other rail equipment. Derails, lined and locked switches, portable bumper blocks, or other methods which provide an equivalent level of security may be used to satisfy this requirement.

c. The facility operator must designate an employee responsible for on-site monitoring of the transfer facility in the absence of the unloader. The designated employee must be made familiar with the nature and properties of the product contained in the tank car, procedures to be followed in the event of an emergency; and, in the event of an emergency, have the ability and authority to take responsive actions.

d. When a signalling system is used (including a monitoring system or a sensing device), the system must be capable of alerting the designated employee in the event of an emergency and providing immediate notification of any monitoring system malfunction. If the monitoring system does not have self-monitoring capability, the designated employee must check the monitoring system hourly for proper operation. (For recommendations on the selection, installation and maintenance of signalling systems, see NFPA 72-Installation, Maintenance and Use of Protective Signalling Systems.)

e. In the absence of the unloader:

- (1) the tank car and facility shutoff valves must be secured in the closed position;
- (2) no product may be transferred; and
- (3) the requirements of § 174.67(a)(2) and (3) apply.

f. The transfer facility shutoff valve must be located as close as practicable to the point of connection between the transfer system and the tank car and in a manner that will minimize the release of product in the event of hose rupture or separation. The facility operator must take appropriate steps to prevent rupture of transfer hoses due to product expansion (i.e. liquid expansion chambers or hoses with an increased minimum burst pressure rating).

8. SPECIAL PROVISIONS:

a. The facility operator must have written safety procedures on file at each location that uses this exemption. The facility operator must instruct each employee performing any function under this exemption on the contents of these procedures and ensure compliance with them. The written procedures must contain at least the following:

- (1) A physical description of the facility including the address and hours of operation.
- (2) A drawing of the transfer facility showing natural and manmade barriers, locations of protective equipment (i.e. derail and caution sign), locations of emergency equipment and locations of signalling equipment.

- (3) Procedures for monitoring the transfer facility [see paragraphs 7(a) and (b)].
- (4) Information on the contents of the tank car including:
  - (i) chemical or common name of the product
  - (ii) health and physical hazards involved in handling the product
  - (iii) emergency and first-aid procedures
- (5) Procedures for securing the transfer facility and protective equipment including derail, switch locks, tank car brakes, caution sign and wheel blocks.
- (6) Equipment available for employee safety and procedures for using the equipment.
- (7) Procedures and limitations for movement of tank cars in the vicinity of the transfer facility.
- (8) Testing and maintenance of system components including signalling systems.
- (9) Training requirements for designated employees responsible for monitoring the transfer facility.
- (10) Procedural steps in the event of an emergency, including names and phone numbers of key personnel and public agencies to contact.
- (11) Procedures for reviewing incidents to determine whether the written procedures require revision or modification to prevent future occurrences and amending those procedures when the review necessitates changes.

b. The facility operator must establish and maintain liaison with fire, police and other appropriate public officials to learn the responsibilities and resources of each governmental agency that may be called upon to respond to an emergency involving the tank car and transfer facility and acquaint the officials with the facility's capabilities and procedures in the event of an emergency.

c. MARKING: The marking requirements of § 172.302(c) are waived.

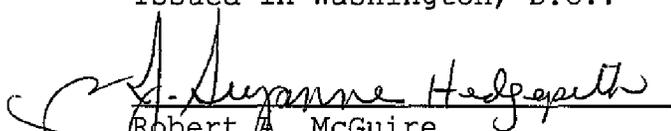
9. MODES OF TRANSPORTATION AUTHORIZED: Rail freight.
10. MODAL REQUIREMENTS: None as a requirement of this exemption.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
  - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8 who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must also inform the AAHMS, in writing, as soon as practicable of any incidents involving the package and shipments made under the exemption.

Issued in Washington, D.C.:

  
Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

AUG 14 2001  
(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.  
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, SW, Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

PO: Schoonover/alb

