

HANDLING SULPHURIC ACID CARBOYS

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1. GENERAL

1.01 One of the duties which the truck transportation forces are called upon to perform is the unloading and distribution of carboys of sulphuric acid. As this work is extremely hazardous, the following instructions specify the tools and equipment required and the special precautions to be observed when performing this task.

2. EQUIPMENT REQUIRED

2.01 The following equipment is required when handling carboys that contain or have contained acid:

- Rubber Gloves
- Rubber Apron
- Rubber Boots
- Hand Truck
- Claw Hammer
- Cross-cut Hand Saw
- 6d. Nails (10 pounds)
- Two pieces of Solid Timber,
each 1" x 3" x 6' long
- Boards, 1" x 3" x 12' (as required)
- One Box of Baking Soda (for neutralizing acids)

3. PRECAUTIONS

3.01 Inspect the rubber gloves, boots and apron to determine that they are in good condition and free from breaks or holes.

3.02 Establish precautionary measures by placing standard red flags at each end of the car or string of cars as a warning to train crews that the car is being unloaded and that men are working inside.

3.03 When carboys are loaded in box cars, each tier is boarded securely to prevent movement in transit. When removing these boards make certain that no carboys will fall when the timbering is taken away.

3.04 Inspect the car closely to determine if any acid jars have been broken or spillage has occurred. If such is found, pour baking soda over the area generously.

3.05 When it is necessary to leave a job uncompleted over night, place timbers to secure the remaining contents, lock the doors, and notify the railroad agent that the car is not completely unloaded.

3.06 Do not handle the carboys with any more personal contact than is necessary. Use hand trucks whenever possible, and, when this method is impracticable and carrying the carboys is necessary, nail 1 in. x 3 in. x 6 ft. boards to the sides of the carboys and use them as handles.

3.07 Observe the same personal safety measures in loading empty carboys as are prescribed for use when unloading cars. Start loading at the ends of the car and lay the carboys on their sides with the tops toward the center of the car. Place them in stacks four high and nail a board across the face of each tier. When the loading of the car reaches the doorways from either end of the car, timber bracing shall be placed across the face of each tier and, in addition, bracing in "X" form shall be placed across the entire face of the carboys to prevent any movement of the load when the car is in motion.