

Hydrogen Peroxide Tank Truck Delivery

Technical Data Sheet

Introduction

Solvay Chemicals, Inc. is dedicated to the safe delivery of hydrogen peroxide. The Driver Certificate Program ensures that only qualified hydrogen peroxide drivers deliver product to our customers and that deliveries are made in a safe manner. The following is a summary of our program and the key areas of a safe delivery. Please contact the Solvay Chemicals Logistics Department for any additional information.

Driver Certification

The Driver Certificate Program involves three parts:

1. Attendance at an annual Driver Training presentation by Solvay Chemicals covering proper delivery instruction, operation of the equipment, and the hazards of hydrogen peroxide.
2. A passing grade on an annual written test.
3. For a new driver, hands-on training by a Certified Driver on a minimum of two hydrogen peroxide deliveries.

Pre-Trip Inspection

Before leaving the Solvay Chemicals facility with a loaded trailer of hydrogen peroxide, the driver performs a pre-trip inspection.

- The driver verifies that the trailer is safe for transport.
- The driver verifies that the required personal protective equipment (PPE), any special fittings (adapters, extra hoses), and the shipping papers are on the trailer.

Customer Check-In

Upon arrival at the customer site, the driver checks with the site personnel for:

- Any special PPE requirements.
- The meaning of alarm signals.
- The location of the storage tank.

Personal Protective Equipment (PPE)

Solvay Chemicals requires the following PPE when handling hydrogen peroxide:

- Chemical-splash goggles.
- Hard hat with brim.
- Chemical resistant rubber gloves.
- Chemical resistant rubber boots.
- A slicker suit or full-length raincoat.
- A face shield is optional.

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Safe Set-Up

Prior to making the actual delivery, the driver verifies that the site is safe for delivering hydrogen peroxide.

1. The customer must approve the unloading of the hydrogen peroxide ensuring that the area is safe, the correct storage tank is used, and there is enough capacity in the tank for delivery.
2. The driver checks the location and operation of the safety shower and eyewash.
3. A water hose must be nearby. The driver will not unload without water.
4. The storage tank and fill line must be marked "Hydrogen Peroxide". Hydrogen peroxide is never pumped into a pipeline except for the fill line.
5. Any combustible debris must be removed to minimize the potential for a fire.
6. The driver checks the sight glass or other tank level device to ensure there is enough capacity in the storage tank.
7. The customer determines the proper drain location for any residual hydrogen peroxide.

Proper Unloading

- The driver performs the actual unloading.
- The driver is observant for leaks.
- The driver ensures that the proper storage tank is filled by tracing the fill line to the tank.
- The driver may move away from the immediate rear of the trailer, but he must remain within 25 feet of the trailer and the pump and delivery hose must be in view at all times.
- The driver may remove his goggles, hard hat, and gloves if he is away from the immediate rear of the trailer, but he must be prepared to put it back on in case of an emergency.

Clean-Up

The driver ends the unloading by ensuring that no residual hydrogen peroxide is present and the equipment is properly secured.

1. The driver clears the piping and hose of hydrogen peroxide by using the onboard nitrogen system.
2. Any hydrogen peroxide left in the system is drained into a bucket, diluted and disposed of into the approved drain.
3. The area is inspected for spills, and any spilled product is diluted and rinsed to an appropriate drain.
4. The driver secures the customer's tank by closing the sight glass valve and replacing the plug in the fill line.
5. The driver secures the trailer.

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Post Trip Summary

1. The driver completes the paperwork.
2. The customer signs the shipping papers and is given a copy.
3. The driver notes any problems on his pre-trip inspection form. This is returned to Solvay Chemicals for action.

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Please use the following guide to observe our deliveries and fax to: 713-525-7880.

Date: _____

Customer: _____ Location: _____

Order Number: _____ Trailer Number: _____

	OK	COMMENTS
OK COMMENTS CUSTOMER CHECK-IN		
1. Special PPE requirements	_____	_____
2. Alarm signals	_____	_____
3. Location of the storage tank	_____	_____
PERSONAL PROTECTIVE EQUIPMENT		
1. Chemical-splash goggles	_____	_____
2. Hard hat with brim	_____	_____
3. Chemical resistant rubber gloves	_____	_____
4. Chemical resistant rubber boots	_____	_____
5. Slicker suit or full-length raincoat	_____	_____
6. Face shield (optional)	_____	_____
SAFE SET-UP		
1. Customer approved unloading	_____	_____
2. Safety shower, eyewash, water hose checked	_____	_____
3. Storage tank and fill line marked "Hydrogen Peroxide"	_____	_____
4. Site checked for debris	_____	_____
5. Customer determined drain location	_____	_____
6. Sight glass checked	_____	_____
PROPER UNLOADING		
1. Hose inspected and connected to fill line	_____	_____
2. Flow traced	_____	_____
3. Leaks checked	_____	_____
4. Driver remained in area	_____	_____
CLEAN-UP		
1. Hoses purged with nitrogen	_____	_____
2. Hoses drained into bucket	_____	_____
3. Hydrogen peroxide disposed of properly	_____	_____
4. Spills rinsed	_____	_____
5. Sight glass valve closed	_____	_____
POST TRIP SUMMARY		
1. Shipping papers signed and copy distributed	_____	_____
2. Problems noted on pre-trip inspection form	_____	_____
GENERAL COMMENTS		
Trailer: _____		
Driver: _____		
Other: _____		

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Storage and Handling

- Store hydrogen peroxide in the original vented container, upright, in a cool, ventilated area where it is protected from damage, or in bulk storage tanks made from approved alloys of aluminum or stainless steel.
- Do not store other chemicals, fuels, or combustible materials near hydrogen peroxide.
- Never return unused hydrogen peroxide to the storage container.
- When empty, rinse all peroxide containers thoroughly with clean water before discarding.
- Use only approved material for pumps, piping, and hoses.

Safety

- Persons working with hydrogen peroxide should be familiar with personal protective equipment, first aid measures and the proper safety and handling procedures. Consult the Material Safety Data Sheet (MSDS) for appropriate information.
- Prevent accidental decomposition by keeping the product free of contaminants.
- Prevent fires by avoiding accidental spills. Water is the preferred method for extinguishing fires in which hydrogen peroxide is present.
- Spills and leaks should be contained, diluted with copious amounts of water and disposed of in compliance with local regulations.
- Hydrogen peroxide storage or handling areas should be equipped with a safety shower, an eyewash station, and a water hose.

First Aid

In case of product splashing into the eyes and face, treat eyes first.

- **Eye contact:** Flush eyes immediately with water for at least 15 minutes. Call a physician.
- **Skin contact:** Immediately flush skin with water while removing contaminated clothing and shoes. Call a physician if irritation persists.
- **Inhalation:** Remove the victim from the contaminated area to fresh air. Call a physician in case of respiratory symptoms.
- **Ingestion:** Consult with a physician immediately in all cases. DO NOT induce vomiting. If victim is conscious, rinse mouth and give fresh water.

Danger: Hydrogen Peroxide solutions are strong oxidizers and corrosive to the eyes, mucous membranes and skin. Consult the MSDS for the appropriate Personal Protective Equipment to wear when handling hydrogen peroxide. In case of contact with the eyes, skin or clothing, flush with large amounts of water for 15 minutes. In case of ingestion, sit upright, drink large quantities of water to dilute the stomach contents and seek immediate medical attention. Product in contact with combustible materials may cause fires.

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Before using, read Material Safety Data Sheet (MSDS) for this chemical.
Solvay Chemicals, Inc.

24 hour Emergency Phone Number - 1-800-424-9300 (CHEMTREC®)

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