

UPDATE

Guidelines for Hopper Rail Car to Hopper Truck Transfers of Plastic Pellets

As part of Covestro's Product Safety First program, this checklist has been developed to provide guidelines and recommendations for the transfer and handling of plastic pellets in bulk quantities.

The information furnished is not all-inclusive. However, it is intended to provide a fundamental **starting point** for new bulk transfer sites or to determine whether an existing facility meets the minimum standards established by Covestro.

It is the responsibility of the receiving site to ensure compliance with all applicable local, state and federal regulations. References to specific regulations are for receiving sites within the United States.

In addition to safely manufacturing and delivering quality products, Covestro provides valuable support and services to its customers. Our coordinated staff of technical, research and application development specialists works directly with systems suppliers, converters, distributors and end-product manufacturers to assist in the safe handling of Covestro products.

Covestro promotes the safe handling and distribution of our products by assisting customers with equipment guidelines and requirements, as well as best practices for receiving, unloading, storing and handling these materials. On site consultations are conducted to promote worker safety and to assist with regulatory compliance.

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TRANSFER SITE REQUIREMENTS

Method of Transfer
Vacuum capability provided by carrier (master vacuum permitted with approval from Covestro)
All hoses, gaskets and ancillary equipment provided by carrier (no transfer equipment on site)
Ability to secure transfer hose to car to prevent driver from disconnecting transfer hose
without site representative present to observe disconnect (i.e. seal)
Access to certified scales
Ability to protect transload from inclement weather
Site survey to recognize potential sources of contamination and segregate from transloading area

CARRIER REQUIREMENTS

Tractor
Equipped with a blower
Hopper Trailer
Barrel, and unloading piping constructed of aluminum
Fittings and unloading piping constructed of stainless steel if required by customer
Hoses
Stainless steel flex hose
- lining prohibited
- must be clean prior to conducting transload
- provide additional clean product hoses as required by customer for unloading
- bidirectional hoses (i.e. interior must be designed such that product can flow in either direction without affecting pellet integrity)
Filters
30 micron cone filter to be placed in the outlet which is on the opposite side of the outlet to which the transfer hose is connected
Stanchions
To support transfer hose
Tarps
Placed on ground that is not paved with asphalt or concrete (must be clean and free of debris)
Catch Pans
Placed below discharge area of hopper car and inlet of hopper truck

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CARRIER REQUIREMENTS, *continued*

Hose Connection Fittings

Stainless steel

- stainless steel adapter to connect to bottom discharge of hopper rail car
- stainless steel couplers such as Kamlok® quick couplers to connect to hopper truck

Provide fittings required by customer for unloading

Gaskets for Hoses and Fittings

White neoprene

Trailer Cleaning

Equipped to internally clean and dry trailers

All fittings, hoses and valves clearly identified to indicate functionality

Maintenance

Written cleaning procedure for cleaning hopper trailers after every fourth load

Training

Written transloading procedure to be reviewed and provided to all drivers conducting transload

Drivers, maintenance, cleaning rack personnel and terminal managers to complete a Covestro Distribution Safety Department training program/presentation

WRITTEN PROCEDURES

Written procedures & checklists for each of the following activities:

Receipt of loaded hopper car

Pre and post loading hopper car inspections

Pre and post loading hopper trailer inspections

Maintaining hopper trailer cleaning tickets

Transloading into hopper trailers

Sampling of rail car (if requested by customer or shipper)

Sampling of hopper trailer (if requested by customer or shipper)

Hoses

- inspection process

- cleaning process

Return of empty tank cars

Maintaining seal integrity on hopper car compartments

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SECURITY REQUIREMENTS

Perimeter fence with gated access
Fire protection system
Security checks of drivers upon arrival at facility
Visitors escorted throughout premises
Means of securing hopper car outlets during non-loading times
Written site security plan

SAFETY/ENVIRONMENTAL/REGULATORY REQUIREMENTS

Fall protection if access to top of hopper car is required
Personal protective equipment as specified by Safety Data Sheet (SDS)
Spill pans/containment under hopper car outlets, hopper truck outlets and transfer equipment
Access to safety shower/eyewash station
Written facility spill response plan
Spill response supplies
Maintain an OSHA total recordable incident rate (TRIR) less than 20% above industry average
Established work zones with restricted access during product transfers
Compliance with all applicable local, state and federal regulations, including those mandated by the DOT, FRA, OSHA and EPA
All site personnel to complete a Covestro Transport & Logistics Safety Department training program/presentation

Notes

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Notes



Always Raising the Bar in Managing Chemicals Safely

Today, it is not enough to publicly commit to preventing pollution, improving process safety, fostering employee health and safety, providing product stewardship, and building positive relationships with plant neighbors and communities. A responsible company must lead by example. At Covestro, we've taken the initiative in advancing the science of chemical risk management both at our facilities and at our customers' sites. We consider such an effort progressive product stewardship and we call that effort our Product Safety First program.



RESPONSIBLE CARE®
OUR COMMITMENT TO SUSTAINABILITY

Our product stewardship team continuously expands outreach programs for new and current customers. The multi-phased, comprehensive Product Safety First approach includes health, safety and environmental services to support and educate users on the safe storage, handling, use and disposal of our products. Product Safety First initiatives, through our commitment to continuous improvement, encourage customers to elevate their procedures to "best industry practice" levels. At Covestro, we're never content to rest on our laurels. Our product stewardship program is not just another corporate activity; it's our upwardly mobile standard for conducting business.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Covestro products mentioned in this publication. Before working with any of these products, you must read and become familiar with the available information on their characteristics, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets (SDS) and product labels. Consult your Covestro representative or contact the Transport & Logistics Safety Department or Product Safety and Regulatory Affairs Department in Pittsburgh, Pennsylvania at 1-412-413-2000.

For materials that are not Covestro products, appropriate industrial hygiene and other safety precautions recommended by their manufacturer(s) must be followed.



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The information contained herein is believed to be accurate as of the date of this document. The purpose for or manner in which you apply or utilize our products, technical assistance and information, whether verbal, written or by way of production evaluations, including any suggested formulations and recommendations, are beyond our control. It is imperative that you test our products to determine their suitability from a technical as well as health, safety, and environmental standpoint for your intended uses or applications. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee, expressed or implied, and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our technical assistance and information. Any statement or recommendation not contained herein shall not bind us. Covestro assumes no legal responsibility for use of or reliance upon the information in this document. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. Before working with our products, you must read and become familiar with all available information on the risks, proper use, and handling. Information is available in several forms, e.g., safety data sheets, product labels and other safe use and handling literature for chemical substance(s). The most current health and safety information regarding our products, including Safety Data Sheets (SDSs), is available at the Product Safety First website (www.productsafetyfirst.covestro.com). For further information contact your Covestro representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.