

## **Ethylene Dichloride (EDC)**

### **EDC Safety & Handling Evaluation Guidelines**

Please use these guidelines in conjunction with this product's country-specific Safety Data Sheet (SDS) and the Safe Use conditions as described therein. Current Safety Data Sheets can be requested from Olin at [info@olinbc.com](mailto:info@olinbc.com).

#### **Purpose**

This document sets forth certain issues to consider when developing or assessing procedures for safe off-loading, storage, handling, use and disposal of EDC. The following list is not exhaustive.

#### **Safety Guidelines and Practices**

- The most current version of the Material Safety Data Sheet is readily accessible, understood and reviewed periodically with employees
- An EDC-specific, documented employee training program is in place and is conducted regularly
- An EDC emergency response plan is in place and drills are conducted at least annually
- Incidents and accidents are investigated and corrective actions are reviewed with personnel
- Areas where spills are likely to occur are contained to minimize the potential for environmental contamination or release to waterways, ditches or storm sewers
- A job safety review is conducted regularly to ensure the safe handling of EDC throughout the facility
- Due to flammability of EDC, a deluge system and fire/smoke detectors are installed and active in EDC handling areas
- Due to flammability of EDC, explosion-proof pumps and non-sparking tools are used
- A documented program to survey for EDC leaks is utilized

#### **Safety Shower and Eye Wash**

- An operable safety shower and eye wash is available within a reasonable distance from the unloading area and other product handling areas
- Safety showers and eye washes are equipped with alarms and tested regularly
- The eye wash is located under the safety shower, since both the eye wash and safety shower may need to be used simultaneously
- The safety shower and eye wash are activated by non-self-closing valves
- A dedicated potable and tempered water supply is available for both the eye wash and safety shower wherever EDC is used

#### **Industrial Hygiene**

- Personnel monitoring is conducted periodically to confirm compliance to exposure guidelines
- A fugitive emissions monitoring program is followed in off-loading, storage and use areas

## **Unloading Operations**

- Personal safety equipment requirements have been identified and are being met; examples include personnel protective equipment (PPE) and fall protection
- The area is designated as a "Chemical Goggles Area"
- Connection points, lines and tanks are clearly labeled
- The unloading operation is in a spill containment area
- The rail car is grounded during off-loading
- The area is well-lit for unloading at night or during inclement weather conditions
- The unloading operation is staffed or monitored during the off-loading operation
- The unloading system is designed and operated to minimize emissions to the air
- A nitrogen pad is used during the off-loading operation
- For lone workers, systems exist to ensure immediate response in the event the person becomes injured and is unable to summon help or requires immediate assistance
- Safety barricades, wheel chocks and grounding cables are available, used and included as part of the work procedure
- Hose use is minimized in favor of hard-piping; a maintenance program is documented and used for unloading hoses
- A continuous combustible gas detection system is used in the unloading area
- Proper operation of the back-flow prevention system, from process and cross ties, is confirmed
- Emergency remote shut-off system is accessible

## **Storage Facility**

- The area is designated as a "Chemical Goggles Area"
- Storage tanks are inside a spill containment area
- Storage tanks are clearly labeled
- Alarms for high level and high temperature are in place and operational
- Storage tanks are vented through a scrubber

## **Emergency Response**

Information that may be included in an EDC Emergency Response Plan:

- product description;
- number to call in the event of an emergency;
- emergency notification contact (plant supervision to notify);
- facility map and emergency shut-off locations;
- written procedures for responding to an emergency under several scenarios;
- evacuation information;
- Safety Data Sheet;
- PPE requirements for both normal and emergency use;
- spill control procedures;
- disposal procedures;
- sampling procedures; and/or
- background information for the media.

## **Security**

A natural extension of safety is attention to security, since both help protect employees and our communities.

- An assessment of security measures has been completed and appropriate actions implemented

## **Additional Safety Resources**

Contact Olin for information specific to your handling of EDC.

## **Product Stewardship**

Olin Corporation has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis of our Product Stewardship philosophy by which we assess the health and environmental information on our products and then take the appropriate steps to protect employee and public health and the environment.

Olin encourages its customers and potential users of Olin products to review their applications for such products from the standpoint of human health and environmental quality. To help ensure that Olin products are not used in ways for which they were not intended or tested, Olin personnel are available to assist customers in dealing with ecological and product safety considerations. Your Olin sales representative can arrange for the proper contacts.

## **Regulatory Datasheets (RDS)**

Olin Corporation provides information on the regulatory status of its products under prominent regulatory programs in the Regulatory Datasheet (RDS). Regulatory Datasheets can be requested from Olin at [info@olinbc.com](mailto:info@olinbc.com).

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