



TotalEnergies

Refining & Chemicals

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Safe Handling of Cray Valley Metallic Coagents

Product Identification

This document covers metallic coagents under the trade name Dymalink®. Most are solid powdered materials, but some are encapsulated in a binding agent to form solid pellets.

General

As with any chemical, the potential health and safety hazards associated with Cray Valley products should be understood to ensure that they are used safely. Review each product's Safety Data Sheet (SDS), which includes specific hazard and precautionary information, prior to working with these materials.

Should you require assistance in an emergency involving a Cray Valley product, please do the following. For Chemical Emergency ONLY (spill, leak, fire, exposure, or accident), call CHEMTREC at 800-424-9300. For ALL other inquiries about this product, call Cray Valley at 877-US1-CRAY (877-871-2729).

Health Hazards

Dymalink® metallic coagents may cause skin irritation, particularly if skin contact is prolonged. Skin sensitization (allergic reaction) may also occur on repeat exposure. Dust from powdered products, or vapors created by thermal processing, may cause irritation of the respiratory tract and other mucous membranes. These products may also cause severe eye irritation or may be corrosive to the eyes as demonstrated in animal tests. Some are mildly toxic by ingestion. Pelleted forms may reduce the risk of exposure to these hazards, but the hazards are still present. The SDS for each product describes the specific health hazards applicable to that product.

Other Hazards

Cray Valley Dymalink® products have low flammability. In the event of a fire, they may become inhalation hazards. Vapors and combustion products from burning materials may be smoky, extremely irritating, or toxic.

Fire fighters should wear self-contained breathing apparatus in addition to eye, face and body protection. Extinguish fires with dry chemical, foam, carbon dioxide, or water fog or spray from a safe distance or protected location. Cool exposed containers with water fog or spray from a safe distance.

Powdered Dymalink® products may be combustible dusts, and all Dymalink solid products may become combustible dusts if sufficiently small particles are generated and suspended in air. Dymalink® products are also static accumulators and can be a source of ignition. Avoid raising dust clouds, which can create an explosion risk. Eliminate and control ignition sources and use good housekeeping practices during storage, transfer and handling of these products. Properly ground process and handling equipment to dissipate static charges.



Handling

As with all industrial chemicals, it is important to prevent exposure by using protective equipment, safe work practices and engineering controls.

The following precautions should be observed for general handling practices:

- ensure a clean, well-ventilated work environment;
- avoid skin contact by wearing impervious gloves;
- wear eye protection such as safety glasses with side shields;
- wear other protective equipment as appropriate;
- review the SDS prior to working with a material.

If skin contact does occur, wash affected areas immediately with soap and water. Rinse thoroughly. If eye contact occurs, immediately flush the eye(s) with clean water for at least 15-20 minutes. Seek medical attention if adverse symptoms are observed.

Storage

All products should be stored indoors, out of direct sunlight, under controlled temperature conditions unless noted on the SDS. Products should be stored away from reactive materials such as oxidizers and acids and away from heat, sparks, open flame, and other ignition sources. Contamination with incompatible materials listed in the SDS must be avoided.

Many Dymalink® metallic coagents contain an inhibitor that requires presence of oxygen to be effective. These products should not be stored in an oxygen-depleted environment. Contact a company representative for more information about inhibitor levels and maintenance.

All products should be used according to the manufacturer's instructions, including adherence to shelf-life recommendations.

Transportation

Some Dymalink® products are classified as environmentally hazardous substances under some international regulations. See the SDS for more information about transportation.

Environmental Protection

Releases to the air are regulated by state and federal authorities. Spill and leak control measures are used in manufacturing including capture and treatment of any water which might be contaminated. Releases to the air could occur from leaks in processing equipment or during sampling, maintenance, cleaning, or transfer operations. Emissions to air and water can be minimized during manufacture and use. These products are not readily biodegradable in wastewater.

Some Dymalink® products have been demonstrated by computational analogy to be hazardous to the aquatic organisms. Zinc compounds (as a category), which are present in some Dymalink® products, are regulated by the EPA as toxic chemicals.

Consumer Use



Cray Valley does not directly sell any products for use by consumers, although they may be formulated into consumer products by customers of Cray Valley. The intended use conditions are in industrial workplaces where any potential exposure to workers and the environment are tightly controlled and confined through industrial hygiene protocols and processes, engineering of the manufacturing equipment, and the use of personal protective equipment. Industrial users of these products should ensure that the resulting formulations are safe for their intended uses.

Disposal

Persons handling empty product containers should wear protective equipment and handle containers in an area away from ignition sources because they may contain residual product.

Properly inhibited metallic coagents are generally not RCRA hazardous wastes. However, it is the responsibility of the waste generator to determine if the product meets the criteria of a hazardous waste at the time of disposal (see 40 CFR 261). Disposal options for these products include landfilling solids at permitted sites, fuel blending or incinerating liquids. Metal recovery should be considered. Disposal must comply with federal, state, and local regulations.

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