

# ARKON\*

*A Range of Water White,  
Hydrogenated Hydrocarbon Resins*

## Storage and Handling Guide

ARKON\* hydrogenated hydrocarbon resin is a pelletized, amorphous thermoplastic material available in the following different packaging.

- 25 kg bags; as a standard packaging, 40 bags (i.e., 8 layers with 5 bags) are palletized and stretch-film wrapped.
- 500 kg big bags; as a standard packaging, each single big bag is placed on an individual pallet.

### Safety Considerations

Safety data sheets (SDS) for ARKON\* resins are available from Arakawa Europe GmbH to assist customers to safely store, handle and, if needed, dispose ARKON\* resins. SDS are updated regularly. Therefore, please request and review the most current SDS before handling or using any product. The following comments are general and apply only to ARKON\* Resins as supplied.

ARKON\* Resins have low degree of toxicity and under normal handling conditions should pose no unusual problems after ingestion, eye or skin contact.

Normal industrial good housekeeping practice should be followed. Skin or eye contact to molten resin should be avoided. Safety glasses are suggested as a minimal precaution to prevent possible mechanical or thermal injury to the eyes. In case of dust formation an approved dust respirator should be used.

### Storage conditions

The resin's thermoplastic behavior may cause blocking when the temperature of the resin is too high or materials are subjected to pressure. This is particularly relevant for low softening point resin grades. The following are standard storing conditions.

- Cool, dry and no direct sun-light and/or no UV radiation
- Temperature should not exceed 30 degree C
- Do not store pallets stacked
- Short term (2 days) stacking, maximum of two pallets in the stack, for transport of big bags is allowed

Dow recommends that ARKON\* Water White, Hydrogenated Hydrocarbon Resins should be used within 12 months from the date of shipment from our site, provided that it is stored under the conditions described in our Storage and Handling Guide.

## Handling requirements

### **Combustibility**

Handling and processing of resins can generate dust and form explosive dust-air mixtures. In order to prevent electrostatic charge buildup, all mixing and handling equipment must be made of conductive materials and grounded. Also, the bag and the worker emptying the bag must be grounded (e.g. use of conductive shoes). When using big bags, extra precautions should be taken. When emptying these bags, large quantities of resin pour out. This flow of material can generate large electrostatic charge buildup, depending on flow-rate, type of big bag and equipment used.

In dusty atmospheres, use an approved dust respirator. Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations. Keep the working area clean and free from accumulation of dust and product.

ARKON\* Resin will burn when supplied with adequate amounts of heat and oxygen. They should be handled and stored away from contact with direct flames and/or other ignition sources. When burning, the resins release high heat and possibly a dense smoke. Fires can be extinguished by conventional means with water fog preferred. In enclosed areas, fire fighters should be provided with self-contained breathing apparatus.

### **Environment**

When disposing of any waste, be certain all applicable national and local regulations are met. If these regulations are met, the following is applicable for the resins as supplied. If polymers, processing aids or other materials are added, their possible influence on handling and disposal should be judged separately.

Hydrogenated hydrocarbon resins can be disposed of either by incineration or landfill. With properly controlled industrial, commercial or municipal incineration, particulate or gaseous discharge into the air can be maintained within allowable levels. Hydrogenated hydrocarbon resins have high heat values and should be incinerated only in units designed to handle high heats of combustion. In landfill, the resins are inert.

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