

D.E.R. 732

Liquid Epoxy Resin

Description

D.E.R.* 732 liquid epoxy resin is a reaction product of epichlorohydrin and polypropylene glycol.

Introduction

D.E.R. 732 is a flexible, low viscosity, light color, epoxy resin for use in coatings and adhesives. D.E.R. 732 flexible epoxy resin, with conventional bisphenol-A based epoxy resins, it imparts flexibility, elongation and improves impact resistance. This resin serves also as a viscosity reducer, or can serve as the basis for advanced polymers for a variety of water-borne and solvent-borne coatings. Although many different commercial applications can benefit from the improved flexibility and impact properties offered by this resin, it is particularly beneficial in construction and civil engineering applications. In this context, the pot-life of a formulation can be extended (reactivity reduced) by adding D.E.R. 732 to aromatic epoxy binder systems.

Typical Applications

This product is suitable for use in applications such as:

- Adhesives
- Casting and Tooling
- Civil Engineering
- Automotive Coatings
- Can Coatings
- Marine & Protective Coatings
- Potting and Encapsulation

Safety and Handling

The Dow Chemical Company provides its customers with a product specific Material Safety Data Sheet (MSDS) to cover potential health effects, safe handling, storage, use and disposal information. Dow strongly encourages its customers to review the MSDS on its products and other materials prior to their use. For further handling information, consult the Dow brochure entitled, *DOW Epoxy Resins*

Typical Properties¹

Epoxide Equivalent Weight, (g/eq)	310 - 330	ASTM D-1652
Viscosity @ 25°C (77°F), (mPa.s)	55 - 75	ASTM D-445
Density @ 25°C (77°F), (g/ml)	1.06	ASTM D-4052
Color, Platinum Cobalt	60 Max.	ASTM D-1209
Hydrolyzable Chloride Content, (ppm)	2000 Max.	RPM 105-D
Non Volatile Content, (wt. %)	99.5 Min.	RPM 104-A
Flash Point, (°C)	194	ASTM D-3278
Shelf Life, (Months)	24	

¹ Typical properties; not to be construed as specifications

Product Stewardship Manual, Safe Handling and Storage, Form No. 296-00312-898.

Product Stewardship

The Dow Chemical Company 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. The Dow Chemical Company has enduring commitments to Responsible Care® in the management of chemicals worldwide. Our Product Stewardship program rests with every individual involved with Dow products from the initial concept and research to the manufacture, sale, distribution, and disposal of each product.

Customer Notice

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

Your Dow sales representative can arrange for the proper contacts. Dow literature, including Material Safety Data Sheets should be consulted prior to the use of Dow products.

Food Contact Statement

Please contact your local Dow sales representative for information on compliance with U.S. Food, Drugs and Cosmetics Act as amended under Food Additive Regulation 21 CFR 175.300 and forthcoming EC regulations.

Also consult the Dow brochure entitled, *Food Additive Status for Epoxy Resins, Curing Agents and Epoxy Novolac Resins*, Form No. 296-01425.

Regulatory Status

This epoxy resin is regarded as a polymer according to the 6th Amendment of Council Directive 67/548/EEC as well as according to Council Directive 92/32/EEC of 30 April 1992; the 7th Amendment of that same directive, and is, therefore, exempt from the European Inventory of Existing Chemical Substances (EINECS). In addition, Dow confirms that the chemicals and intentional additives which form the basis of this product are listed on EINECS.

Regarding the CAS-Nr. for this Dow epoxy resin, please be informed that CAS Reg. Nr. 26142-30-3 as well as CAS Reg. Nr. 9072-62-2 can be used to describe this material. Both CAS numbers describe epoxy resins produced by the condensation of epichlorohydrin with polypropylene glycol. Dow, being an American Company, applies CAS Reg. Nr. 26142-30-3 because this number is used in our US TSCA (Toxic Substances Control Act) documents.

Chemical Inventory List

CAS Number*		26142-30-3 (9072-62-2)
Europe	EINECS	Polymer
United States	TSCA	26142-30-3
Canada	DSL	26142-30-3
Australia	AICS	26142-30-3
Japan	MITI	7-343
Korea	KECL	KE-27556
Philippines	PICCS	26142-30-3
China	Informal 1997 PRC Inventory	26142-30-3

* Please refer to the Material Safety Data Sheet (MSDS) or SDS for this product to ensure this CAS number is consistent with the product(s) you use.

With respect to China, please note that there is currently no formal Chinese Chemical Inventory legislation in place. The Chinese Authorities are in the process of drafting such legislation. There is in place an "Informal 1997 PRC Chemical Inventory List" and above mentioned CAS Reg. Nr. is listed on it.

For more information on the regulatory status of this product, please refer to the Material Safety Data Sheet (MSDS) or SDS for this product.

For additional information:

In the U.S. and Canada,
contact The Dow Customer Information Group at:
1-800-441-4369 or 989-832-1426
Fax: 989-832-1465

In Mexico,
Call 95-800-441-4369 (Toll Free) or
52-5-2014718 (Outside Mexico)

In Latin America,
contact The Dow Chemical Service Center at:
In Argentina, call 54 11 4390329
In Brazil, call 55 11 51889367

In the Pacific,
contact The Dow Customer Information Group at:
+800-7776-7776 (Toll Free) or +60-3-7958-3392
Fax: +800-7779-7779 (Toll Free) or +60-3-7958-5598

In Europe, Middle East and Africa,
contact The Dow Customer Information Group at:
+800 3 694 6367 (Toll Free*) or
+32 3 450 2240
Fax: +32 3 450 2815

*Toll Free from Austria, Belgium, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, The Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and The United Kingdom.

Visit our Web site at www.dowepoxy.com

Email address: <http://www.dow.com/assistance/thoughts.htm>

NOTICE: No freedom from any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. Dow assumes no obligation or liability for the information in this document. **NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE ARE EXPRESSLY EXCLUDED.**

Published October, 2001



Dow Plastics

We don't succeed unless you do.