# Product Datasheet

# EpoPro® 911-1

***ELEVATED TEMPERATURE CURING AGENT FOR EPOXIES***

EpoPro® 911-1 is intended as a close chemical match to the Catalyst 11 product sold by Henkel (formerly Emerson and Cuming), but without the REACH SVHC and Proposition 65 issues that product carries. This product is a multipurpose, low viscosity, elevated temperature curing epoxy hardener that resists chemicals and thermal shock. The EpoPro® 911-1 is completely free of NMP (n-methyl-2-pyrrolidone).

The amine functionality of the EpoPro® 911-1 is identical to that of Catalyst 11, so it can be used at the same mix ratio as the Catalyst 11 with any resin of interest. In general, we also expect that the curing conditions and work-life that were historically successful for any resin used with catalyst 11 will also apply when using the EpoPro® 911-1. However, we suggest evaluating this with a few test samples before widespread adoption in production. If you are curing very rapidly or at low temperatures such as less than 90°C, it is possible that it the 911-1 might require slightly longer to fully evaporate its solvent component than the Catalyst 11 and so the 911-1 might achieve full gelation and curing a bit slower. However this would likely be on the order of 5% -10% longer gelation and curing times.

Since the active ingredient (the functional aromatic amine) in the Catalyst 11 and the EpoPro® 911-1 are the same, we expect all cured properties to be the same, but we encourage customers to confirm this for themselves in their specific applications.

| **Typical Properties** | |
|---|---|
| Viscosity | 35 – 60 cps at 35ºC |
| Appearance | Tan to Dark Brown |
| Density | 1.20 g/ml |
| Typical Pot Life (100 g mass at 25ºC) | 4 hours |
| Suggest Cure Schedule: 2 hours at 100ºC plus 4 hours at 150ºC | |

## STORAGE AND SHELF LIFE

Shelf life is indicated on the product label. For best results, stored between 15°C (59°F) and 35°C (95°F). EpoPro 911-1 is subject to partial crystallization at room temperature to remove crystals warm gently to at least 65ºC and maintain until all crystals have gone into solution. Gentle stirring may speed melting of the crystals. Storage may possible for up to several days at room temperature without re-crystallization. Containers should be kept tightly closed after opening.

## HANDLING PRECAUTIONS:

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

## FIRST AID

In case of contact: **Skin** – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather. **Eyes** – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention. **Inhalation** - Remove person to fresh air. Administer oxygen or artificial

respiration if necessary. Call a physician. **Ingestion** - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

## DISCLAIMER:

IMPORTANT: The following supersedes Buyer's documents. SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended

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