

An Emerald Performance Materials Company

Hypro™ 2800X95 HTB (formerly Hypro™ EXPERIMENTAL PRODUCT HTE-4000) Hydroxyl Functional Polybutadiene Preliminary Technical Data Sheet

DESCRIPTION

Hypro™ 2800X95 HTB represents an extension of the Hypro Reactive Liquid Polymers (RLP) product line. It is a hydroxyl functional liquid polybutadiene complementing the family of CT (carboxyl terminated), AT (amine terminated), VT (methacrylate terminated) and ET (epoxy terminated) liquid polymers. The hydroxyl functionality of **Hypro 2800X95 HTB** makes it a highly flexible polyol in polyurethane applications, recognizing existing reactive liquid polymers function as modifiers for epoxy resins. Thus it provides the formulator another functional oligomer for thermoset resin modification.

Hypro 2800X95 HTB may be used in developing elastomeric polyurethanes that, based on its butadiene backbone, are more hydrophobic than similar elastomers from polyether and polyester diols. Polyurethanes based on **Hypro 2800X95 HTB** exhibit outstanding low temperature flexibility, superior hydrolytic stability are easily extended with a wide variety of oils, asphalt and fillers. Side chain allyl functionality also provides additional crosslinking capabilities with peroxides.

APPLICATIONS

- Binders for Asphalt
- Oxygen Scavenger (non-urethane)
- Potting and Encapsulation
- Adhesives and Sealants
- Waterproof Coatings and Membranes

TYPICAL PROPERTIES

Hypro 2800X95 HTB is a clear, water white liquid that to date, has been made in laboratory quantities having the following range of characterization properties:

NV (%)	>99
Viscosity @ 30°C, cps	4,500 – 5,500
Hydroxyl Value	0.78-0.88 meq/g
Hydroxyl Equivalent Weight	1136 -1282
Hydroxyl Number, mg. KOH/g	43.8 - 49.4
Hydroxyl Functionality	2.4 - 2.6
Tg (approximate)	-75
Molecular Weight	2800

HEALTH & SAFETY PRECAUTIONS

Hypro 2800X95 HTB may cause eye and skin irritation. Excess inhalation may cause headaches and dizziness. Low volatility makes vapor inhalation unlikely. Inhalation of fumes and vapors from processing, combustion or decomposition may cause irritation of the respiratory tract and mucous membranes. Prolonged or repeated contact may irritate skin, causing dermatitis.

Refer to the **CVC Thermoset Specialties** Material Safety Data Sheet on **Hypro 2800X95 HTB** for additional safety and handling information. The MSDS is revised as new data becomes available.



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PACKAGING & AVAILABILITY

Hypro 2800X95 HTB is available in 55 gal. non-returnable closed head steel drums (net weight 410 lbs.) and 5 gal. plastic pails (35 lbs. net). For further information regarding this material or any other CVC Thermoset Specialties product, please contact your local Sales Representative or our Customer Service Department at 800-296-0040.

DISCLAIMER

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