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Certified Company

# Speciality Products Research Group

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## TECHNICAL DATA SHEET

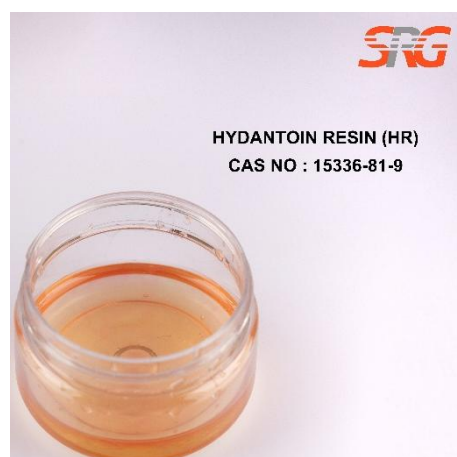
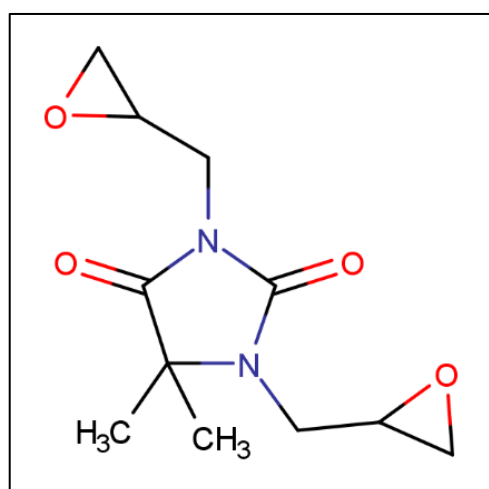
### Hydantoin Resin (HR)

Hydantoin Resin (HR) is a class of bonding agent which provides a means for interacting a filler with a resin to form a composition. HR is very suitable in the bonding an explosive substance with an oxidizer in composite propellant.

Synonyms:	Diglycidyl dimethylhydantoin
CAS No.:	15336-81-9
Molecular Formula:	C <sub>11</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>
Avg Mass:	240.26 g/mol
IUPAC Name:	5,5-dimethyl-1,3-bis(oxiran-2-ylmethyl)imidazolidine-2,4-dione

### **SPECIFICATIONS FOR Hydantoin Resin (HR)**

Sr. No.	Characteristics	Specified Value
1.	Appearance	Homogeneous Viscous mass
2.	Mass Fraction of Epoxy Group, %	≥ 25
3.	Moisture Content, %	≤ 0.1
4.	Mass Fraction of Volatile Substances %	≤ 1.5
5.	Mass Fraction of Chloride Ion, %	≤ 0.1
6.	Mass Fraction of Saponifiable Chlorine, %	≤ 2.5
7.	Dynamic Viscosity at 40°C, Poise	≤ 100
8.	Purity, %	> 98



For Speciality Products Research Group

Proprietor

