+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
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HPNEMS-D

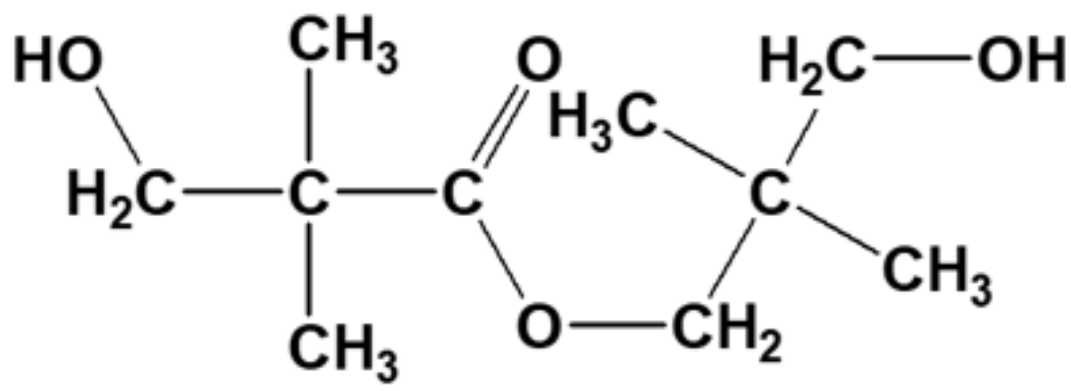
Synonym

Hydroxypivalic acid neopentylglycolester
3-Hydroxy-2,2-dimethylpropyl 3-hydroxy-2,2-dimethylpropionate

General Description

HPNEMS-D contains HPNE as major component and NPG with water.
Its performance provides good balance between hardness , flexibility for coatings and sealants
Especially, HPNE-S mixture provides a good solubility as well as a lower glass transition temperature and melting temperature compared to neopentyl glycol.

Chemical Formula



with Neopentyl glycol

Classification Registry No.

CAS No : 1115-20-4 (as HPNE)
EINECS No 214-222-2 (as HPNE)

Specifications

Characteristic	Test Method	Unit	Speccification
HPNE	Gas Chromato.	wt(%)	74±4
NPG	Gas Chromato.	wt(%)	≤5
Water content	ASTM D 1364	wt(%)	10±1

Application

HPNEMS-D is used in the production of
- Saturated polyester and unsaturated polyester
- Polyurethane coating
- Automotive primer surfaces
- UV radicurable coating

LG Chem

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Physical Characteristics

Characteristic	Unit	Base	Value
Appearance			Liquid
pH		10% in H2O	6
Melting point	℃		22~30
Boiling point	℃	Initial~Terminal	102~292
Flash point	℃	as HPNE	161
Vapor presuure	Pa	30℃, as HPNE	1.3
Solubility	g/ℓ	as HPNE	270
Ignition point	℃	as HPNE	340
Molecular weight	g/mol	as HPNE	204.27
Specific gravity		25℃	1.01

Packaging

- 1000kg with polyethylene Intermediate container

Handling & Storage

1) Precautions for safe handling
   - Handling refer to engineering control/personal protection section.
   - Follow all MSDS/label precautions even after container is emptied because they may retain product residues.
   - Please note that materials and conditions to be avoided.
2) Conditions for safe storage (including any incompatibilities)
   - Store in a dry place. Store in a closed container.
   - Store containers: AVOID the place where can be damage and cont amination.
   - Prevent static electricity and avoid storing near heat sources such as boilers or combustibles.