TECHNICAL DATA SHEET

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NOVAGUARD HG

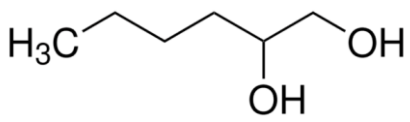
INCI :	1,2 Hexanediol
CAS number :	6920-22-5
EC number :	230-029-6
HS Code :	29053990
Shelf life :	2 years

EWG Safety Score 1

Natural Origin Index 0

NOVAGUARD HG (1,2-Hexanediol) is a ingredient that acts as a multifunctional preservative booster and skin-conditioning agent. It offers antimicrobial protection, enhances the effectiveness of traditional preservatives, and can help reduce their usage. Additionally, it also function as a skin humectant which provides long-lasting hydration, improves skin feel, and supports better stability and uniformity in cosmetic formulations

CHEMICAL STRUCTURE



PHYSIOCHEMICAL PROPERTIES

PARAMETERS	LIMITS	UNITS
Appearance	Clear colorless liquid	--
Odor	Odorless	--
Density (25°C)	0.940 – 0.960	g/ml
Refractive index (25°C)	1.435 – 1.455	--
Moisture Content	1.00 (Max)	%
Purity	99.00 (Min)	%
Solubility	Soluble in Water and alcohol	--

RECOMMENDED USE

0.5 – 3.0 %

REGULATORY COMPLIANCE

- Japan (ENCS), Korea (KECL)
- Australia (AIIC), USA (TSCA)
- Canada (DSL),
- Taiwan, China (TCSI)
- EU (EINECS/ELINCS/NLP)
- Vietnam (NCI), New Zealand (NZIoC)
- Thailand (TECI),Philippines (PICCS)

APPLICATIONS

- Skin care
- Baby care
- Bath care
- Body care
- Antiperspirants & Deodorants

BENEFITS

- Highly effective preservative booster
- Enhances skin moisturization performance
- Gentle and non-sensitizing to the skin
- Provides an excellent sensory experience

MICROBIOLOGICAL EFFICIENCY

Organism	MIC (%)
A. brasiliensis	0.63
C. albicans	1.25
S. aureus	2.50
E. coli	1.20
P. aeruginosa	0.61

MIC = Minimum Inhibitory Concentration
Recommended use level: 0.5 – 2.0%

STORAGE

- We recommend storage in the original packing at ambient temperature.
- Once opened, the packaging should be closed tight with a blanket of nitrogen.

PACKAGING

- 23 Kg Carboys, 190kg Drums, 950 kg IBC Tank.

TRANSPORTATION

- Not classified as dangerous goods

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