120 RIVER ROAD • TAMAQUA, PA 18252 TEL: (570) 386-6123 • FAX: (570) 386-6158

Product Information Bulletin for:

NITROGLYCERIN (GLYCEROL TRINITRATE)

Nitroglycerin (NG) is a nitrate ester used in propellants and other applications. NG is stabilized and desensitized to meet DOT shipping requirements. Common stabilizers for NG are ethyl centralite and 2NDPA. Typical desensitizers include acetone, ethyl acetate, triacetin, diethylene glycol, and methylene choloride.

Physical Properties

Physical State	Oily liquid	Detonation Velocity	7600 m/s
Color	Colorless	Heat of Explosion	1600 cal/g
Chemical Formula	O ₂ NOCH(CH ₂ ONO ₂) ₂	Heat of Combustion	1616 cal/g
Molecular Weight	227.09	Viscosity @ 20°C	36 cP
Specific Gravity @ 25°C	1.5931	Vapor Pressure @ 20°C	0.00033 mm Hg
Freezing Point	13.2°C	Soluble In	Most organic solvents
Oxygen Balance as CO2	+3.5%	Solubility in Water @ 20°C	0.18g/100g H ₂ O

Sensitivity and Stability

Impact	8 to 10 cm (2 kg weight)	
Friction	100% steel shoe	
Explosion Temperature (5 Sec.)	222°C	
Decomposition Temperature	145°C	

Typical Specifications

Nitrogen Moisture Acidity/Alkalinity KI Stability (82.2°C) DiNG Content 18.4% minimum0.5% maximum0.002% maximum10 minutes minimumMeets customer requirements

Please contact us regarding special requirements.

Shipping Information

Designation	Composition	DOT Classification	Standard Packages
RXL 677	50/50 NG / Ethyl Acetate		5 gallon inner packaging with a
RXL 688	75/25 NG / Triacetin	Substances, Explosive, n.o.s.,	1A2 outer packaging
RXL 689	70/30 NG / Methylene Chloride	Class 1.1D, UN0475, PGII	
X-D-35	50/50 NG / Methylene Chloride		30 gallon inner packaging with a 1A2 outer packaging
X-E-3	75/25 NG / Diethylene Glycol		TAZ OULET PACKAGING
X-E-5	60/40 NG / Acetone	Substances, Explosive, n.o.s., Class 1.3C, UN0477, PG II	Packages authorized under DOT-SP2709

If you are looking for a responsive, reliable, and cost effective manufacturer, contact us via telephone at (570) 386-6123 or via e-mail at sales@copperheadchemical.com. For additional information and handling instructions, refer to the Safety Data Sheet.

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FOR YOUR PROTECTION:

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