ExxonMobil

Primol 542

ExxonMobil Specialties , Norway

Medicinal grade White Oil

Product Description

Primol 542 is a purified mixture of liquid saturated hydrocarbons. It is a colourless, transparent oily liquid and is essentially odourless and tasteless. It is obtained from petroleum through several refining stages, including an ultimate purification by catalytic hydrogenation.

Primol 542 is manufactured to exceed the purity requirements of the Pharmacopoeias Due to its superior chemical inertness, it demonstrates better colour and oxidative stability than most mineral and vegetable oils, when stored and used under controlled conditions.

ExxonMobil White Oils are produced and controlled according to the ExxonMobil Product Quality Management System, EN ISO 9000 or equivalent standard.

CAS number: 8042-47-5

EINECS number: 232-455-8

INCI name (Europe): Paraffinum Liquidum

CTFA Dictionary name (USA): Mineral Oil

Applications

Primol 542 can be used in a variety of food-related, cosmetic and pharmaceutical applications subject to the applicable laws and regulations in each country (*).

Thermoplastics

Primol 542 is recommended as a food packaging-grade plasticizer in Polystyrene. It offers an outstandingly low volatility but due to its high molecular weight, it is best used in grades at relatively low oil content, in order to maintain transparency for General Purpose PS grades.

Primol 542 is recommended for use as an external lubricant for non-plasticized PVC.

Elastomers and Adhesives

Primol 542 is used for producing food-contact or medical rubber articles, such as EPDM or butyl rubber. Because of its extremely low volatility, it is particularly well suited for the extension of Thermoplastic Elastomers when low fogging properties are required.

Primol 542 is also recommended for Hot-Melt Adhesives formulations used in sanitary products.

(*) User must check compliance with applicable regulations.

Regulations and Claims

This product is recommended for use in applications requiring:
European Pharmacopoeia, Liquid Paraffin monograph

This product is registered to the requirements of:
NSF H1

This product meets or exceeds the requirements of:
FDA 21 CFR 178.3620(a)
US Pharmacopeia/National Formulary Mineral Oil monograph

This product meets or exceeds the requirements of:
European Regulation (EU) 10/2011

Properties and Specifications

Property	Standard Method(a)	Typical	Min	Max
Appearance	Visual		Clear and Bright	
Odor	OLFACTORY		odorless or almost ordorless	
Color, Saybolt	ASTM D6045		+30	
Kinematic Viscosity @ 40 C, mm2/s	ASTM D445		90.0	110.0
Kinematic Viscosity @ 100 C, mm2/s	ASTM D445		11	
Density @ 15 C, kg/m3	ASTM D4052		866	876
Relative Density @ 20 C/20 C	ASTM D4052		0.864	0.875
Relative Density @ 25 C/25 C	ASTM D4052		0.862	0.873
Pour Point, °C	ASTM D5950			-12
Flash Point, Cleveland Open Cup, °C	ASTM D92		250	
Refractive Index, 20 C	ASTM D1218		1.472	1.480
Average Molecular Weight, g/mole	ASTM D2502		510	
Hydroc. with less than 25 carbons, wt %	ASTM D6352			2
Distillation, 10 torr, 2.5%, °C	ASTM D1160	294		
Distillation, 10 torr, 5.0%, °C	ASTM D1160	298	292	
Distillation, 10 torr, 10%, °C	ASTM D1160	303	302	
Paraffinic Carbons (Cp), %	AM-S 1805	69		
Naphthenic Carbons (Cn), %	AM-S 1805	31		
Aromatic Carbons (Ca), %	AM-S 1805	0		

Note 1: Products are certified on release to meet the values specified. Actual values may deviate within the established reproducibility of the test method specified.

Note 2: For purpose of determining conformance with specification, observed or calculated values shall be rounded off to the nearest unit in the last significant digit used in expressing the limiting value in accordance to the ASTM E 29 method

(a) In lieu of standard test method, alternate test methods may be used for the certification of a product property.

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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