ExxonMobil

# Primol™ N 352

ExxonMobil Specialties , Hong Kong

Medicinal grade White Oil

## Product Description

Primol N 352 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 N 352 contains 5 ppm food-grade alpha-tocopherol (vitamin E) as an oxidation inhibitor.

Primol N 352 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.

## Applications

Primol N 352 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 N 352 is recommended as a food packaging-grade plasticizer in general purpose and high impact polystyrene.
- Primol N 352 is recommended for use as an external lubricant for non-plasticized PVC.
- Primol N 352 is an inert and protective catalyst carrier for polypropylene processes. It can also serve as a pigment powder dispersant in master batch compounding.

Elastomers and Adhesives

- Primol N 352 is used for producing food-contact or medical rubber articles such as EPDM or butyl rubber. It is particularly well suited for the extension of Thermoplastic Elastomers (TPE), such as SBS, SEBS or SEPS.Primol N 352 is also recommended for Hot-Melt Adhesives formulations used in sanitary products.

Cosmetics and Pharmaceuticals

- Primol N 352 has many well-established applications in the pharmaceutical industry, like laxative jellies and ointments, and is also recommended as a component for many cosmetic products, such as creams and body lotions.

(*) User must check compliance with applicable regulations.

CAS number: 8042-47-5

EINECS number: 232-455-8

INCI name (Europe): Paraffinum Liquidum

CTFA Dictionary name (USA): Mineral Oil

## Regulations and Claims

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|---|
| FDA 21 CFR 178.3620(a) |
| US Pharmacopeia/National Formulary Mineral Oil monograph |
| NSF H1 |
| European Regulation (EU) 10/2011 |

Properties and Specifications

| Property | Standard Method(a) | Typical | Min | Max |
|---|---|---|---|---|
| Appearance | Visual | | Clear and Bright | |
| Density @ 15 C, kg/m3 | ASTM D4052 | | 863 | 873 |
| Distillation, 10 torr, 2.5%, °C | ASTM D1160 | 281 | | |
| Distillation, 10 torr, 5.0%, °C | ASTM D1160 | 285 | 275 | |
| Distillation, 10 torr, 10%, °C | ASTM D1160 | 290 | 282 | |
| Flash Point, Cleveland Open Cup, °C | ASTM D92 | | 240 | |
| Kinematic Viscosity @ 100 C, mm2/s | ASTM D445 | | 8.5 | |
| Kinematic Viscosity @ 40 C, mm2/s | ASTM D445 | | 65.0 | 75.0 |
| Odor | OLFACTORY | | odorless or almost ordorless | |
| Pour Point, °C | ASTM D5950 | | | -12 |
| Refractive Index, 20 C | ASTM D1218 | | 1.473 | 1.479 |
| Relative Density @ 25 C/25 C | ASTM D4052 | | 0.859 | 0.870 |
| Color, Saybolt | ASTM D6045 | | +30 | |
| Average Molecular Weight, g/mole | ASTM D2502 | | 480 | |
| Hydroc. with less than 25 carbons, wt % | ASTM D6352 | | | 5 |
| Paraffinic Carbons (Cp), % | AM-S 1805 | 68 | | |
| Naphthenic Carbons (Cn), % | AM-S 1805 | 32 | | |
| 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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