ExxonMobil

# Marcol N 82

ExxonMobil Specialties , Chile

Medicinal grade White Oil

## Product Description

Marcol N 82 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. Marcol N 82 contains 5 ppm food-grade alpha-tocopherol (vitamin E) as an oxidation inhibitor (*).

Marcol N 82 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.

(*): Marcol N 82 does not comply with the Light Liquid Paraffin definition of the European Pharmacopoeia due to the addition of an oxidation inhibitor.

## Applications

Marcol N 82 can be used in a variety of food-contact, cosmetic and pharmaceutical applications (*), subject to the applicable laws and regulations in each country (**).

(*) To limit ingestion and aspiration hazards, Marcol N 82 should not be used in nasal, oral or lip care products, or as a food additive other than for food contact materials.

(**) User must check compliance with applicable regulations

Cosmetics

Marcol N 82 is widely used as a component of a great variety of cosmetic products:

- Emollients and moisturisers (cleansing oils and milks, body lotions and creams, suntan lotions and milk, make-up powders)
- Baby products (shampoos, baby oils, bath oils)
- Hair care products (hot oil treatments, gels, scalp pomades)
- Neutral and protective diluents for other cosmetic ingredients such as essential oils
- Other applications such as bath cubes, anti-perspirant and deodorant sticks.

Marcol N 82 provides many practical advantages to the formulation specialist:

- Excellent skin compatibility, very low irritancy and no comedogenicity
- Very good balance between resistance to bacteria and final biodegradability, with minimal environmental impact.

Pharmaceuticals

Marcol N 82 offers a high level of safety, thanks to its high purity (absence of toxic polycyclic aromatics, heavy metals), the complete destruction of germs in the high temperature manufacturing process, and specific packaging and handling procedures.

Marcol N 82 is an ingredient of pharmaceutical topical ointments and petroleum jellies. It can be used as a pelletiser aid, and in the manufacture of gelatine capsules.

CAS number: 8042-47-5

EINECS number: 232-455-8

INCI name (Europe): Paraffinum Liquidum

CTFA Dictionary name (USA): Mineral Oil

## Regulations and Claims

| This product is registered to the requirements of: |
|---|
| NSF H1 |

| This product meets the requirements of the following specifications: |
|---|
| FDA 21 CFR 178.3620(a) |
| US Pharmacopeia/National Formulary Light Mineral Oil monograph |

## Properties and Specifications

| Property | Standard Method(a) | Min | Max |
|---|---|---|---|
| Appearance | Visual | Clear and Bright | |
| Odor | OLFACTORY | odorless or almost ordorless | |
| Kinematic Viscosity @ 40 C, mm2/s | ASTM D445 | 14.5 | 17.5 |
| Flash Point, Cleveland Open Cup, °C | ASTM D92 | 182 | |
| Density @ 15 C, kg/m3 | ASTM D4052 | 845 | 858 |
| Relative Density @ 25 C/25 C | ASTM D4052 | 0.841 | 0.855 |
| Pour Point, °C | ASTM D5950 | | -6 |
| Refractive Index, 20 C | ASTM D1218 | 1.464 | 1.470 |
| Color, Saybolt | ASTM D6045 | +30 | |

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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