

Specifications for
CARNATION® White Mineral Oil

<u>PROPERTIES GUARANTEED</u>	<u>TEST METHOD</u>	<u>LIMITS</u>
Specific Gravity @ 25°C/25°C	ASTM D4052	0.829/0.859
Kin. Viscosity @ 40°C, mm ² /s	ASTM D445	10.8/13.6
Acidity	NF (current revision)	PASS
Readily Carbonizable Substances	NF (current revision)	PASS
Solid Paraffin	NF (current revision)	PASS
Limit Of Polycyclic Aromatic Hydrocarbons	NF (current revision)	PASS
Limit Of Sulfur Compounds	NF (current revision)	PASS
Residual Solvents, Reportable Quantity	USP 467	NONE
Odor	LATM 092	NONE
Color, Saybolt	ASTM D156	30 Min.
Breakdown Time, Minutes	LATM 017	45 Min.
Appearance	LATM 127	BRIGHT & CLEAR
Infrared Absorption	USP 197F	Pass

This product is a Light Mineral Oil NF meeting requirements for National Formulary (current revision) and Food and Drug Administration requirements as per 21 CFR 172.878 and 21 CFR 178.3620(a).

The information contained herein is correct to the best of our knowledge. Your attention is directed to the pertinent Material Safety Data Sheets for the products mentioned herein. All sales are subject to Sonneborn's standard terms and conditions of sale, copies of which are available upon request and which are part of Sonneborn's invoices and/or order acknowledgments. Except as expressly provided in Sonneborn's standard terms and conditions of sale, no warranty, express or implied, including warranty of merchantability or fitness for particular purpose, is made with respect to the products described herein. Nothing contained herein shall constitute permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent.

WHITE OIL PROPERTIES

PRODUCT	VISCOSITY		SPECIFIC GRAVITY ASTM D-4052 @ 25°C/25°C ^c	POUR POINT ASTM D-97 °C (°F)	FLASH POINT ASTM D-92 °C (°F)
	ASTM D-445 cSt @ 40°C ^a	ASTM D-2161 SUS @ 100°F ^b			
USP MINERAL OIL					
Hydrobrite® 2100	360-420	2100	0.870/0.890	-6 (20)	288 (550)
Hydrobrite® 1000	180-240	1000	0.860/0.885	-6 (20)	288 (550)
Kaydol®	64-70	350	0.869/0.885	-21 (-5)	220 (430)
Gloria®	39-42	210	0.859/0.880	-18 (0)	204 (400)
Protol®	35-37	185	0.859/0.875	-18 (0)	202 (395)
LIGHT MINERAL OIL, NF					
Rudol®	28-30	150	0.852/0.870	-18 (0)	198 (390)
Ervol®	24-26	130	0.849/0.865	-18 (0)	190 (375)
Benol®	18-20	100	0.839/0.865	-21 (-5)	186 (365)
Blandol®	14-17	85	0.839/0.859	-21 (-5)	186 (365)
Carnation®	11-14	70	0.829/0.859	-24 (-10)	186 (365)
Klearol®	7-10	55	0.827/0.846	-24 (-10)	154 (310)
40 Oil	4-5	40	0.810/0.830	-42 (-40)	136 (275)

All above grades are stabilized with Vitamin E, have no odor or taste and are water white (Saybolt color +30), and meet FDA 21 CFR 172.878 and 21 CFR 178.3620(a) requirements. All above grades meet USP or NF with the exception of 40 Oil which can have a specific gravity below NF limits. We can supply products meeting the current requirements of BP, DAB, French Codex, EuP, Japanese, and other pharmacopoeias. Special viscosity and pour point oils are available on request.

TYPICAL PROPERTIES OF STANDARD SONNEBORN® TECHNICAL GRADE WHITE OILS

PRODUCT	VISCOSITY		SPECIFIC GRAVITY ASTM D-4052 @ 25°C/25°C ^c	POUR POINT ASTM D-97 °C (°F)	FLASH POINT ASTM D-92 °C (°F)
	ASTM D-445 cSt @ 40°C ^a	ASTM D-2161 SUS @ 100°F ^b			
TECHNICAL GRADE					
Semtol® 500	90-125	580	0.860/0.880	-12 (10)	270 (520)
Semtol 400	70-90	380	0.860/0.876	-12 (10)	250 (480)
Semtol 350	65-70	350	0.869/0.885	-21 (-5)	220 (430)
Semtol 100	18-20	100	0.839/0.855	-21 (-5)	186 (365)
Semtol 85	14-17	85	0.839/0.855	-21 (-5)	186 (365)
Semtol 70	11-14	70	0.834/0.845	-24 (-10)	186 (365)
Semtol 40	4-6	40	0.804/0.827	-42 (-40)	136 (275)
Freezene® 200	36-40	200	0.870/0.886	-42 (-40)	190 (375)

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Issue Date: May 1, 2017

Products: USP Petrolatums (CAS # 8009-03-8) INCI name: Petrolatum
USP/NF/Tech grade White Mineral Oils (CAS # 8042-47-5) INCI name: Mineral Oil
NF Microcrystalline Waxes (CAS # 623231-60-7) INCI name: Microcrystalline Wax

Manufacturer/Supplier (physical location)

Sonneborn LLC.
100 Sonneborn Lane
Petrolia, PA 16050 USA
Phone: +1-724-756-9598
Fax: +1-724-756-9386

Aflatoxins / Mycotoxins / Genotoxins: Our products are free of aflatoxins / mycotoxins / genotoxins.

Allergens: Our products are derived entirely from petroleum hydrocarbons and do not contain Allergens, including melamine, gluten, shellfish, wheat, dairy, corn starch, lactose, nuts, gelatins, sulfites or any protein based ingredients.

Animal testing: Sonneborn, LLC does not conduct animal testing or have commissioned any testing of its USP/NF products.

Antibiotics: Our products do not contain antibiotics or viral.

Anti-Oxidant Statement: Petrolatums may contain up to 10 ppm of dl-alpha Tocopherol and 25 ppm of BHT. Waxes may contain up to 25 ppm of BHT. White Mineral Oils may contain up to 10 ppm of dl-alpha Tocopherol.

Asbestos: Asbestos is not used in or intentionally added to our USP/NF products and are Asbestos free.

BSE/TSE: Our products are derived entirely from petroleum hydrocarbons and do not contain animal / animal by-products so they are BSE/TSE free.

California Prop 65: None of the substances in the CA PROP 65 list (current revision) are intentionally added or present in our USP/NF products.

CMR: Our products are produced to meet the purity of USP/NF and FDA 21 CFR 172.878, 172.880 & 172.886 and 178.3620a and do not contain substances classified as CMR.

Conflict minerals: None of the Conflict Minerals (Dodd-Frank Act) are intentionally added or present in our USP/NF products.

Ethylene oxide/Dioxin: Ethylene oxide / Dioxin is not used in our products.

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Glycerol: Our products do not contain glycerol or derivatives of glycerol.

GMO: Our products are derived entirely from petroleum hydrocarbons and do not contain plant based products so they are GMO free.

GMP: Sonneborn, LLC's plant is approved by the FDA as a GMP facility meeting Q7.

HACCP: Sonneborn, LLC's plant is certified to FSSC 22000 (Food safety system certification)

Heavy Metals: Our products comply with USP <232> and EMEA, Elemental Impurities, for Metal catalysts and metal residues

Ingredients: Sonneborn, LLC products are derived entirely from petroleum hydrocarbons.

Irradiation: Sonneborn, LLC products are not irradiated.

ISO 9001: Sonneborn LLC's plant is certified to ISO 9001:2008.

Latex: Our products do not contain Latex.

Lot code: Sonneborn, LLC uses batch numbers that are assigned through SAP in sequential manner.

Microbial: Sonneborn, LLC's products are produced under high temperature & pressure and low moisture to preclude the presence of microbials.

Nano materials: Our products do not contain Nano materials.

Nutritional statement: Nutritional data is not tested / reported for our products.

Organic statement: Sonneborn, LLC products are not organic certified.

Ozone, Hazardous Air Pollutants: Our products are free of Ozone and Hazardous Air Pollutants (HAP).

Pesticides: Sonneborn, LLC products do not contain pesticides including PCB.

Phthalates (BPA): Our products are free of phthalates.

Plant Hormones: Our products do not contain hormones or growth promoters

REACH: Sonneborn, LLC products (substances) are REACH registered and do not contain SVHC. (REACH letter available upon request)

Residual Solvents: Our products do not contain residual solvents.

RoHS: Sonneborn, LLC products do not contain RoHS.

Shelf-life Statement: Limited testing has indicated that the product is stable for up to 3 years if kept in the dark and between 15°C and 30°C in factory sealed drums.

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R E F I N E D P R O D U C T S

February 9, 2017

To Whom It May Concern

Subject: European Cosmetic regulation 1223/2009 RE: Petrolatum

The concern with “Petrolatum” is that the name and all the Chemical Abstract Services (CAS#) associated with it and their European EINECS equivalents appear in Annex II of the European Cosmetic regulation on prohibited substances labeled as a Carcinogen, 1B of 1272/2008 CLP (**Note N**). The qualifying note indicates that a manufacturer need not label their Petrolatum as a Carcinogen, 1B, if the full refining history is known and if it can be shown that the substance from which it is produced is not a carcinogen.

Sonneborn LLC. hereby certifies that the all “White and Yellow” Petrolatums, made in our North American facility at Petrolia, and used in the manufacturing of cosmetic products do not require labeling as Carcinogen, 1B within European Cosmetic regulation 1223/2009.

The raw materials used in our manufacturing process are especially selected petrolatum fractions, which are already fractionated, and solvent extracted. These are then further purified in our 2 Stage, severe catalytic hydrogenation process in which final impurities (Polycyclic Aromatic Hydrocarbons, sulfur and nitrogen heterocyclic compounds) are removed.

Every batch and shipment of “White or Yellow” petrolatum is certified to pass the Polycyclic Aromatic Hydrocarbon (PCA) test defined in the Code of Federal Regulations (FDA 21CFR172.880).

As such, manufacturers of cosmetic products using Sonneborn LLC’s “White and Yellow” petrolatum have no need to identify the petrolatum as Carcinogen, 1B.

Sincerely,



Charles Sheppard
Technical Services
Sonneborn LLC.

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USP/NF: Our white mineral oils meet the purity of USP/NF (current revision).

Vegetarian / Vegan status: Sonneborn, LLC are not derived or sourced from animal / animal by-products.

Sincerely,

A handwritten signature in blue ink that reads "Charles Sheppard".

Charles Sheppard
Technical Services
724-756-9598