

RAW MATERIAL SPECIFICATION AND REGULATORY STATUS

Chemical Name(s): CAB-O-SIL® and CAB-O-SPERSE® UNTREATED FUMED SILICA, CRYSTALLINE FREE

CAS #(s): 7631-86-9

Trade Name(s): CAB-O-SIL® EH-5, CAB-O-SIL® H-5, CAB-O-SIL® HP-60, CAB-O-SIL® HS-5, CAB-O-SIL® L-50, CAB-O-SIL® L-90, CAB-O-SIL® LM-130, CAB-O-SIL® LM-130D, CAB-O-SIL® LM-150, CAB-O-SIL® LM-150D, CAB-O-SIL® M-5, CAB-O-SIL® M-7D, CAB-O-SIL® M-8D, CAB-O-SIL® MS-55, CAB-O-SIL® MS-75D, CAB-O-SIL® PTG, CAB-O-SIL® S-17D, CAB-O-SPERSE® 5010, CAB-O-SPERSE® A 105, CAB-O-SPERSE® A 1695, CAB-O-SPERSE® A 2095, CAB-O-SPERSE® A205, CAB-O-SPERSE® CT-302C, CAB-O-SPERSE® GP 12, CAB-O-SPERSE® GP 32/12, CAB-O-SPERSE® GP 32/17, CAB-O-SPERSE® GP 42, CAB-O-SPERSE® GP 50, CAB-O-SPERSE® GP 52/15, CAB-O-SPERSE® GP 53/30, CAB-O-SPERSE® II, CAB-O-SPERSE® LT312, CAB-O-SPERSE® MT 32/17, CAB-O-SPERSE® MT 51K, CAB-O-SPERSE® P1010, CAB-O-SPERSE® PC11K, CAB-O-SPERSE® PG001, CAB-O-SPERSE® PG002, CAB-O-SPERSE® PG022, CAB-O-SPERSE® PG041, CAB-O-SPERSE® PG049, CAB-O-SPERSE® PG063, CAB-O-SPERSE® HLS-2000, Pharmaceutical Grades CAB-O-SIL® M-5P and M-5DP

An MSDS is Attached – YES/NO

REGULATORY INFORMATION

Indication of Danger

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC and their various amendments and adaptations.

EU Food Contact Information

CAB-O-SIL® untreated fumed silica (all grades) can be used for many food applications as a direct food additive at levels up to five percent by weight as the food additive E551 in accordance with the EU Directive 95/2/EC and meets all required purity criteria according to the joint FAO/WHO Expert Committee on Food Additives (JECFA). CAB-O-SIL® untreated fumed silica (all grades) is approved for use in the manufacture of plastic materials and articles intended to come into contact with foodstuffs according to EC Directive 2002/72/EC.

US Food Contact Information

CAB-O-SIL® untreated fumed silica (all grades) has been cleared by the United States Food and Drug Administration (FDA) for many food applications as a direct food additive at levels up to two percent by weight and as a substance allowed in the manufacture of materials that come into direct contact with food in various producing, manufacturing, packaging, preparing, transporting and holding operations (21 CFR 172).

Kosher and Halal Status for Direct and Indirect Food Use

Please contact your supplier/distributor for up to date Kosher and Halal certification status of the manufacturing plant where the material was produced.

Medical Use Status

CAB-O-SIL® M-5P and M-5DP fumed silicas meet all of the requirements for Colloidal Silicon Dioxide as described in the U.S. Pharmacopoeia National Formulary. They also meet the requirements of Silica Colloidalis Anhydricas as described in the European Pharmacopoeia and the Light Anhydrous Silica Acid as described in the Japanese Pharmacopoeia.

Cosmetics Applications

These products have the following INCI (International Nomenclature of Cosmetic Ingredients) names assigned by The Cosmetic, Toiletry, and Fragrance Association (CTFA) and can be included in cosmetic preparations for their designated uses with no restrictions:

'SILICA' - CAB-O-SIL® M-5, LM-130, HS-5 and EH-5 untreated fumed silicas for use as abrasives, absorbants, opacifiers and viscosity controlling agents.

Cabot CAB-O-SIL® and CAB-O-SPERSE® untreated fumed silica products have not been tested in humans or animals for cosmetic purposes. For industrial safety reasons, they have been tested in animals for skin sensitization/irritation effects and have been designated as non sensitizing and non irritant.

California Proposition 65

Not Listed

WHMIS

Not Hazardous

HMIS RATING

1 – Health

0 – Flammability

0 – Reactivity

International Inventories

All components of this product are listed on or exempt from the following inventories:

- YES - Australian Inventory of Chemical Substances (AICS)
- YES - European Inventory of Existing Commercial Chemical Substances (EINECS)
- YES - Canadian Domestic Substances List (DSL)
- YES - Chinese Inventory
- YES - Japanese Existing and New Chemical Substances (ENCS)
- YES - Korean Existing Chemicals List (KECL)
- YES - Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- YES - United States Toxic Substances Control Act (TSCA) Inventory

Heavy Metals Content:

CAB-O-SIL and CAB-O-SPERSE Untreated Silica (all grades)

Typical Metals Analysis (ppm)

Spark Source Mass Spectrometry Method



CABOT

creating what matters

Al	Aluminum	<5.0
Sb	Antimony	<0.1
As	Arsenic	<0.05
Ba	Barium	<0.5
Be	Beryllium	<0.1
Bi	Bismuth	<0.2
B	Boron	<2.0
Cd	Cadmium	<0.1
Ca	Calcium	<2.0

Cr	Chromium (total)	<0.5
Co	Cobalt	<0.1
Cu	Copper	<0.5
Fe	Iron	<2.0
Pb	Lead	<0.1
Li	Lithium	<0.1
Mg	Magnesium	<1.0
Mn	Manganese	<0.1
Hg	Mercury	<0.1
Mo	Molybdenum	<0.3
Ni	Nickel	<1.0
P	Phosphorus	<0.5
Se	Selenium	<0.1
Ag	Silver	<0.2
Na	Sodium	<0.5
Tl	Thallium	<1.0
Sn	Tin	<0.5
Ti	Titanium	<1.0
V	Vanadium	<0.1
Zn	Zinc	<0.2
Zr	Zirconium	<0.5

These data and conclusions are based on work believed to be reliable; however, we cannot and do not guarantee that similar results and/or conclusions will be obtained by others, and we disclaim any liability resulting from the use of this information.

TCLP Testing (EPA – 40 CFR 261.24): NONE

Organic and Inorganic Impurities and Products of Animal Origin:

CAB-O-SIL® and CAB-O-SPERSE® untreated fumed silicas are not routinely analyzed for the following regulated chemicals. These chemicals are **not** involved in our production and handling processes and they are **not** expected to be present in our CAB-O-SIL® and CAB-O-SPERSE® untreated fumed silica products in concentrations above low ppm or less and therefore below the levels of concern:

Organic Impurities

- Aliphatic and aromatic solvent
- azo compounds, aromatic amines and dyes,
- halogenated hydrocarbons including among others, brominated hydrocarbons, aliphatic chlorinated hydrocarbons, dioxins, flame retardants, fluorinated hydrocarbons, PAH's, PCB's, PCT's, and ozone depleting substances (ODS) like CFC's and HCFC's
- furans
- glycol ethers
- phenols
- Endocrine Disrupters such as phthalates and bisphenol - A
- Pesticides and biocides
- Organotin derivatives
- Latex
- Formaldehyde
- BADGE, BFDGE and NOGE

- Acrylamide

Also, within the meaning of various United States and European regulations, CAB-O-SIL® and CAB-O-SPERSE® untreated fumed silica products do not contain volatile organic compounds (VOC's) or hazardous air pollutants (HAP's) above trace amounts.

Inorganic Impurities

- Asbestos
- Heavy metals (< 5ppm for each metal - please refer to the typical CAB-O-SIL® and CAB-O-SPERSE® untreated fumed silica products metal analysis for more specific information)

Products of Animal or Plant Origin

CAB-O-SIL®, CAB-O-SPERSE® untreated fumed silica products are not derived from any products of animal or plant origin or any animal or plant by-products. They do not come into contact with any products of animal or plant origin or any animal or plant by-products during the production process. They do not contain any bovine materials or any materials associated with the development of Bovine Spongiform Encephalopathy (BSE) or Creutzfeldt-Jakobs Disease (CJD). They do not contain any Genetically Modified (GMO) products or materials.

Responsible Care®:

Cabot is not a member of CMA or CCPA but operates its business in accordance with the principles of Responsible Care®.

Supplier: _____

Signature: _____

Date: _____