



"Tiny Solutions to Large Problems"

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1. Chemical Product and Company Identification

*Nanoplas, Inc.
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Tel: (616) 452-3707*

Revised: 11-6-12

Product Trade Name	NANO CLEAN
CAS Number:	Not applicable for mixtures.
Synonyms:	None.
Generic Chemical Name:	Mixture.
Product Type:	Cleaner, Degreaser
Preparation/Revision Date	6/15/11
Transportation	
Emergency Phone No:	INFOTRAC: 1-800-535-5053 (outside the U.S. 1-352-323-3500)

2. Hazards Identification

Appearance:	Clear
Odor:	Mild

Principal Hazards

- Causes skin irritation.
- May cause eye irritation.
- May cause respiratory tract irritation.

See Section 11 for complete health hazard information.

3. Composition/Information on Ingredients

Hazardous Ingredients

(N/E) - None established

Comp CAS No. Percentage (by wt.)

Calcium sulfonate Confidential. From 20 to 29.9 percent N/E

Alkylbenzene Confidential. From 1 to 4.9 percent N/E

4. First Aid Measures

Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
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Skin:	Wash with soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.
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Inhalation: Remove exposed person to fresh air if adverse effects are observed. Call a poison center or doctor if exposed or you feel unwell.

Oral: Treat symptomatically. Get medical attention.

Additional Information: Note to physician: Treat symptomatically.

5. Fire Fighting Measures

Flash Point: > 170 °C, 338 °F COC (Minimum)

Extinguishing Media: CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.

Firefighting Procedures: Recommend wearing self-contained breathing apparatus.

Unusual Fire

& Explosion Hazards: Solid does not readily release flammable vapors. See section 10 for additional information.

6. Accidental Release Measures

Spill Procedures: Pick up free solid for recycle and/or disposal.

7. Handling and Storage

Pumping Temperature: Not applicable.

Maximum

Handling Temperature: Not determined.

Handling Procedures: Avoid breathing dust, fume, gas, mist, vapors or spray. Wash thoroughly after handling. Launder contaminated clothing before reuse. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

Maximum

Storage Temperature: Not determined.

Storage Procedures: Do not store near potential sources of ignition. See section 10 for incompatible materials.

Loading Temperature: Not determined.

8. Exposure Controls/Personal Protection

Exposure Limits: None established

Other Exposure Limits: None known.

Engineering Controls: Use material in well ventilated area only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

Gloves Procedures: Use good industrial hygiene practices to avoid skin contact. If contact with the material may occur wear chemically protective gloves.

Eye Protection: Safety Glasses.

- Respiratory Protection:** Use NIOSH/MSHA approved full face piece respirator with a High Efficiency Particulate Air (HEPA) filter if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.
- Clothing Recommendation:** Long sleeve shirt is recommended. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

9. Physical and Chemical Properties

- Flash Point:** > 170 °C, 338 °F COC (Minimum)
- Upper Flammable Limit:** Not determined.
- Lower Flammable Limit:** Not determined.
- Autoignition Point:** Not determined.
- Explosion Data:** Material does not have explosive properties.
- Vapor Pressure:** Not determined.
- Ph:** Not determined.
- Specific Gravity:** 0.89 (15.6 °C)
- Bulk Density:** Not determined.
- Water Solubility:** Insoluble.
- Percent Solid :** Not determined.
- Percent Volatile:** Not determined.
- Volatile**
- Organic Compound:** 0.15 Lb/gal (ASTM E 1868-10)
- Vapor Density:** Not determined.
- Evaporation Rate:** Not determined.
- Odor:** Mild
- Appearance:** Waxy brown paste.
- Viscosity:** 15.5 Centistokes (100 °C)
- Odor Threshold:** Not determined.
- Boiling Point:** Not determined.
- Pour Point Temperature:** Not determined.
- Melting / Freezing Point:** 38 °C, 100.4 °F

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

10. Stability and Reactivity

- Stability:** Material is normally stable at moderately elevated temperatures and pressures.
- Decomposition**
- Temperature:** Not determined.
- Incompatibility:** Oxidizing agents.

- Polymerization:** Will not occur.
- Thermal Decomposition:** Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: sulfur.
- Conditions to Avoid:** Not determined.

11. Toxicological Information

-- ACUTE EXPOSURE --

- Eye Irritation:** Weak to moderate eye irritant. Does not meet EU R36 criteria. Based on data from components or similar materials. Vapors formed from heating may cause eye irritation.
- Skin Irritation:** Skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
- Respiratory Irritation:** May cause nose, throat, and lung irritation. Based on data from components or similar materials.
- Dermal Toxicity:** The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
- Inhalation Toxicity:** Avoid the inhalation of dust, mists, or vapors.
- Oral Toxicity:** The LD50 in rats is > 2000 mg/Kg. Based on data from components or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.

- Dermal Sensitization:** Not expected to cause skin sensitization. Based on data from components or similar materials.

- Inhalation Sensitization:** No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

- Chronic Toxicity:** No data available to indicate product or components present at greater than 1% are chronic health hazards.
- Carcinogenicity:** This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
- Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- Reproductive Toxicity:** No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
- Teratogenicity:** No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

-- ADDITIONAL INFORMATION --

- Other:** No other health hazards known.

12. Ecological Information**-- ENVIRONMENTAL TOXICITY --****Freshwater Fish Toxicity:** Not determined.**Freshwater****Invertebrates Toxicity:** Not determined.**Algal Inhibition:** Not determined.**Saltwater Fish Toxicity:** Not determined.**Saltwater****Invertebrates Toxicity:** Not determined.**Bacteria Toxicity:** Not determined.**Miscellaneous Toxicity:** Not determined.**-- ENVIRONMENTAL FATE --****Biodegradation:** At least 25% of the components in this product show limited biodegradation based on OECD 302-type test data.**Bioaccumulation:** 1 - 10% of the components display no potential to bioconcentrate.**Soil Mobility:** Not determined.**13. Disposal Considerations****Waste Disposal:** This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.**14. Transport Information****ICAO/IATA I:** Not regulated.**ICAO/IATA II:** Not regulated.**IMDG:** Not regulated.**IMDG EMS Fire:** Not applicable.**IMDG EMS Spill:** Not applicable.**IMDG MFAG:** Not applicable.**MARPOL Annex II:** Not determined.**USCG Compatibility:** Not determined.**U.S. DOT Bulk:** Not regulated.**DOT NAERG:** Not applicable.**U.S. DOT (Intermediate):** Not regulated.**U.S. DOT I****Intermediate NAERG:** Not applicable.**U.S. DOT Non-Bulk:** Not regulated.**U.S. DOT Non-Bulk NAERG:** Not applicable.**Canada:** Not regulated.**Mexico:** Not regulated.**Bulk Quantity:** 85000 KG, 187391 lbs.**Intermediate Quantity:** 11000 KG, 24251 lbs.**Non-Bulk Quantity:** 400 KG, 882 lbs.

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Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory Information

-- Global Chemical Inventories --

USA:	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg:	None known.
EU:	All components are in compliance with the EC Seventh amendment Directive 92/32/EEC.
Japan:	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia:	All components are in compliance with chemical notification requirements in Australia.
New Zealand:	All components are in compliance with chemical notification requirements in New Zealand.
Canada:	This material contains one or more components that are on the Non-Domestic Substances list (NDSL). This material or products containing this material may be exported to Canada in limited quantities list.
Switzerland:	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Korea:	All components are in compliance in Korea.
Philippines:	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China:	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
Taiwan:	All components of this product are listed on the Taiwan inventory.

-- Other U.S. Federal Regulations --

SARA Ext. Haz. Subst. This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

SARA Section 313 This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

SARA 311 Classifications

Acute Hazard	Yes
Chronic Hazard	No
Fire Hazard	No
Reactivity Hazard	No

CERCLA Hazardous Substances None known.

-- State Regulations --

Cal. Prop. 65 This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

-- Product Registrations --

U.S. Fuel Registration:	Not applicable.
Finnish Registration Number:	Not Registered
Swedish Registration Number:	Not Registered
Norwegian Registration Number:	Not Registered
Danish Registration Number:	Not Registered
Swiss Registration Number:	Not Registered



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Italian Registration Number: Not Registered

-- Other / International --

Miscellaneous Regulatory

Information: Not determined.

16. Other Information

US NFPA Codes

Health	Fire	Reactivity	Special
2	2	0	N/E

(N/E) - None established

HMIS Codes Health Fire Reactivity

Health	Fire	Reactivity
2	2	0

Precautionary Labels:

Causes skin irritation.

May cause eye irritation.

May cause respiratory tract irritation

Revision Indicators Section: 1 Cas registry number. Changed:

Section: 1 Generic /chemical name. Changed: 28 March 2011

Section: 2 Appearance. Changed: 18 March 2011

Section: 4 Oral first aid. Changed: 18 March 2011

Section: 4 Skin first aid. Changed: 18 March 2011

Section: 5 Extinguishing media. Changed: 18 March 2011

Section: 8 Clothing recommendations. Changed: 18 March 2011

Section: 8 Glove protection. Changed: 18 March 2011

Section: 9 Appearance. Changed: 18 March 2011

Section: 9 Viscosity. Changed: 18 March 2011

Section: 9 Percent volatile organic compounds. Changed: 18 March 2011

Section: 10 Thermal decomposition. Changed: 28 March 2011

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