

# MEGANITE<sup>®</sup>

## Acrylic Solid Surface

### 1. Identification

<b>Product identifier</b>	Meganite <sup>®</sup>
<b>Other means of identification</b>	
SDS number	01
Synonyms	Not available.
<b>Recommended use</b>	Surfacing material for horizontal and vertical applications.
<b>Recommended restrictions</b>	Not available.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufacturer/Supplier</b>	Meganite Inc.
<b>General Assistance</b>	
E-Mail	info@meganite.com
<b>Emergency Telephone</b>	Contact your local health or emergency authority immediately.

### 2. Hazard(s) Identification

**Classification of the Product:** Not classified.

**\*Classification of the ingredient:**

**\*Note:** *The product in its finished, marketed form is believed to be inert and generally innocuous. These classifications/hazards are pertaining to a compromised/disrupted product due to operations and processing such as sanding, sawing, grinding, burning etc.*

<b>Physical hazards</b>	None Known	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, Skin	Category 1
	Specific target organ toxicity, single exposure; Respiratory tract irritation	Category 3

**Label elements**

**WARNING!!!**



**IRRITANT**

**Signal word** Warning

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<b>Hazard statement</b>	Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area.
<b>Response</b>	IF ON SKIN: wash with plenty of soap and water. IF SKIN irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN 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 advice/attention. IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. In case of fire: Use water or dry chemicals for extinction.
<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations. This product as sold in its marketed form is not considered an EPA hazardous waste when discarded. Allow hot or heated material to solidify and cool before disposal.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Alumina Trihydrate	21645-51-2	Avg. 60
Acrylic Resin	N/A	Avg. 40
Colorant	N/A	<5

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### 4. First-aid measures

<b>General notes:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	For overexposure to heated resins, remove from exposure. If breathing is difficult, or has stopped, administer artificial respiration (mouth-to-mouth) or oxygen as indicated. Call a physician, immediately.
<b>Skin contact</b>	Wash affected area with soap and plenty of water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
<b>Ingestion</b>	Product in its marketed form is inert. If large amount are swallowed, call physician immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Product sold in its marketed form is not expected to present a serious health hazard; however, operations such as sawing, sanding, grinding or burning may generate dust, smoke or vapors which may be irritating. Inhalation of such dusts, smoke and vapors may cause upper respiratory tract irritation. Symptoms may include burning sensation, coughing, sneezing, and sore throat. Skin contact with dust may produce transitory mechanical irritation. Symptoms may include redness and itching. High concentrations of dusts may cause irritation to the eyes causing burning, redness, and tearing. This product is not expected to be toxic if ingested. Prolonged or repeated skin contact may lead to allergic skin reactions. Prolonged or repeated over exposures to high concentrations may cause coughing, dizziness, confusion, headache and drowsiness. May affect the kidneys and liver.
<b>Indication of immediate medical attention and special treatment needed</b>	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	If exposed or concerned: get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

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### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use water or Dry chemical powder, Carbon dioxide (CO <sub>2</sub> ) and Foam.
<b>Unsuitable extinguishing media</b>	Do not use solid water stream as it may scatter and spread fire.
<b>Fire and Explosion hazard</b>	Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. Hazardous combustion products may include carbon dioxide, carbon monoxide, methyl methacrylate monomer (MMA) Aldehydes and acrid smoke and fumes.
<b>Special protective equipment and precautions for firefighters</b>	Fire fighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing when fighting fires. Use cold water spray to cool fire-exposed containers.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Proper personal protective equipment should be utilized when handling this material. See Section 8 of the SDS for Personal Protective Equipment.
<b>Methods and materials for containment and cleaning up</b>	If released or spilled, product may be cleaned up and disposed in the trash. Allow hot or heated material to solidify and cool before disposal. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e. , cleaning dust surfaces with compressed air). Non-sparking tools should be used.

### 7. Handling and storage

<b>Handling (Personnel)</b>	Do not breathe dust vapors of fumes that may be evolved during processing. Wash hands before breaks and at the end of workday. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding or inert atmosphere. Since finished product has sharp edges, protective gloves should be worn when handling.
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Conditions for safe storage, including any incompatibilities Store in cool dry area.

### 8. Exposure controls/personal protection

#### Occupational exposure limits

##### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Meganite Acrylic Solid Surface	PEL-TWA	This product can generate Particulates Not Otherwise Regulated (PNOR). The OSHA PEL-TWA for PNOR is 15 mg/m <sup>3</sup> (total dust) and 5 mg/m <sup>3</sup> (respirable fraction).
Alumina Trihydrate	PEL-TWA	PNOC - 15 mg/m <sup>3</sup> (total dust), 5 mg/m <sup>3</sup> (respirable fraction)
*Methyl Methacrylate (CAS#80-62-6)	PEL-TWA	100 ppm

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
*Methyl Methacrylate (CAS#80-62-6)	8-hour TWA	100 ppm

##### US. ACGIH Threshold Limit Values

Components	Type	Value
Meganite 100% Acrylic Resin Solid Surface	TLV-TWA	The TLV-TWA for Particles Not Otherwise Specified (PNOS) is 10 mg/m <sup>3</sup> (inhalable) and 3 mg/m <sup>3</sup> (respirable fraction).
Alumina Trihydrate	TLV-TWA	PNOC – 10 mg/m <sup>3</sup> (inhalable), 3 mg/m <sup>3</sup> (respirable fraction)
*Methyl Methacrylate (CAS#80-62-6)	TLV-TWA TLV-ST	50 ppm 100 ppm

##### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
*Methyl Methacrylate (CAS#80-62-6)	TWA	100 ppm

Where governmentally imposed occupational exposure limits which are lower than the above figures are in effect, such limits shall take precedence.

\* **Comment: At higher temperatures, small amounts of methyl methacrylate can be released.**

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### Appropriate engineering controls

Local exhaust ventilation should be used to control the emissions of air contaminants. General dilution ventilation may assist with the reduction of air contaminant concentrations. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment). Use only appropriately classified electrical equipment and powdered industrial trucks.

### Individual protection measures, such as personal protective equipment



#### Eye/face protection

Employees should be required to wear chemical safety goggles to prevent eye contact. A face shield should be used when appropriate to prevent contact with hot material.

#### Skin protection & Hand Protection

Since finished material has sharp edges, wear protective gloves when handling.  
Additional protection: Wear leather or cotton gloves when grinding, sawing, routing, drilling or sanding.

#### Other

Polyvinyl alcohol and Teflon protective garments have been recommended for protection against methyl methacrylate. When necessary, garments for protection against heated materials should be used to prevent skin contact with hot acrylate polymer. Emergency eye wash stations and safety showers should be available in the work area.

#### Respiratory protection

No personal respiratory protective equipment normally required. Wear a NIOSH approved dust respirator that is properly fitted and is in good condition when exposed to dust levels above the ACGIH permissible exposure limits. Dust safety masks are recommended when the dust concentration is more than 10 mg/m<sup>3</sup>.

#### Thermal hazards General hygiene considerations

Wear appropriate thermal protective clothing, when necessary. Handle in accordance with good industrial hygiene and safety practice.

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### 9. Physical and chemical properties

<b>Appearance</b>	Solid.
<b>Physical state</b>	Solid.
<b>Form</b>	Solid.
<b>Color</b>	Varies.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not applicable.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not considered to be flammable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not applicable.
<b>Flammability limit – upper (%)</b>	Not applicable.
<b>Explosive limit - lower (%)</b>	Not applicable.
<b>Explosive limit - upper (%)</b>	Not applicable.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Insoluble and also insoluble in Methanol, Diethyl ether, n-Octanol, Acetone.
<b>Partition coefficient (n-octanol/water)</b>	Insoluble.
<b>Percent Volatile</b>	Not applicable.
<b>Air (% by volume)</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

### 10. Stability and reactivity

<b>Reactivity</b>	Hazardous reactions will not occur under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Heat - Higher temperature can release methyl methacrylate.
<b>Incompatible materials</b>	Not reactive.
<b>Hazardous decomposition Products</b>	Carbon dioxide, carbon monoxide, acrid smoke and fumes, possibly methyl methacrylate.

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### 11. Toxicological information

**Product based information:** No toxicological information is available for the finished product. This product is generally believed to be inert based on available data.

**\*Ingredient based information:**

**\*Note:** This information are pertaining to a compromised/disrupted product due to operations and processing such as sanding, sawing, grinding, burning etc.

**Information on likely routes of exposure:**

<b>Ingestion</b>	This product is not expected to be toxic if ingested.
<b>Inhalation</b>	Harmful if inhaled. Vapors may be irritating to the respiratory system and nasal passages.
<b>Skin contact</b>	Contact of solid with dry skin causes mild irritation.
<b>Eye contact</b>	Causes eye irritation and may injure eye tissue if not removed.

**Symptoms related to the physical, chemical and toxicological characteristics:**

Burning sensation, coughing, sneezing, and sore throat. Skin redness and itching. Eye burning, redness, and tearing. Prolonged or repeated skin contact may lead to allergic skin reactions. Prolonged or repeated over exposures to high concentrations may cause coughing, dizziness, confusion, headache and drowsiness.

**Signs and Symptoms of Acute Overexposure:**

Product sold in its marketed form is not expected to present a serious health hazard; however, operations such as sawing, sanding, grinding, or burning may generate dust, smoke or vapors which may be irritating. Inhalation of such dusts, smoke and vapor may cause upper respiratory tract irritation. Symptoms may include burning sensation, coughing, sneezing and sore throat. Skin contact with dust may produce transitory mechanical irritation. Symptoms may include redness and itching. High concentrations of dusts may cause irritation to the eyes causing burning, redness and tearing. This product is not expected to be toxic if ingested.

**Signs and Symptoms of Chronic Overexposure:**

Prolonged or repeated over exposures to high concentrations may cause coughing, dizziness, confusion, headache and drowsiness. Prolonged or repeated skin contact may lead to allergic skin reactions.

**Medical Conditions Generally Aggravated By Exposure:**

Individuals with chronic respiratory disorders may be adversely affected by any fume or airborne particulate matter exposure. Persons with preexisting skin disorders may be more susceptible to the effects of this material.



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### Numerical measures of toxicity:

Components	Test	Species	Test Results
Alumina Trihydrate (CAS# 21645-51-2)	Oral LD <sub>50</sub>	Rat	>5000 mg/kg
Methyl Methacrylate (CAS# 80-62-6)	Oral LD <sub>50</sub>	Rat	7800 mg/kg
	Dermal LD <sub>50</sub>	Rabbit	> 5000 mg/kg
	Inhalation LC <sub>50</sub>	Rat	15.375 mg/l - 29 mg/l

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	No data available.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Not listed.	
<b>NTP Report on Carcinogens</b>	
Not listed.	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	
Not listed.	
<b>Reproductive toxicity</b>	No data available.
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	No data available.

### Additional information:

\*This product may contain certain inorganic pigments that may include compounds of nickel. Certain molecules of nickel have shown sufficient evidence of carcinogenicity (IARC Vol. 49) while others have shown limited or insufficient evidence of carcinogenicity in humans or animals. Titanium Dioxide: In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have been shown to cause lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. However, other laboratory animals such as mice and hamsters did not develop lung tumors under similar testing with titanium dioxide. Furthermore, human epidemiology studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Under normal conditions of use and exposure, toxicological and epidemiological studies for titanium dioxide have shown no significant adverse health effects. Results of an epidemiology study showed that employees who had not been exposed to titanium dioxide were at no greater risk of developing lung cancer than were employees who had been exposed to titanium dioxide. No associations were observed between titanium dioxide exposure and chronic respiratory disease or lung abnormalities. Based on the results of this study, it was concluded that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in work place.

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### 12. Ecological information

#### Numerical measures of toxicity

Components	Test	Species	Test Results
Methyl Methacrylate (CAS# 80-62-6)	Crustacea EC <sub>50</sub>	Water flea ( <i>Daphnia magna</i> )	69 mg/l, 48 Hours

<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Other adverse effects</b>	Not available.

### 13. Disposal considerations

<b>Disposal instructions</b>	Dispose of in accordance with local, state and federal requirements. This product as sold in its marketed form is not considered an EPA hazardous waste when discarded. Allow hot or heated material to solidify and cool before disposal.
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### 14. Transport information

Not classified as dangerous in the meaning of transport regulations.

### 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Methyl Methacrylate (CAS# 80-62-6)	Listed
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#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard	-	Yes
	Delayed Hazard	-	No
	Fire Hazard	-	No
	Pressure Hazard	-	No
	Reactivity Hazard	-	No

#### SARA 302 Extremely hazardous substance

Not listed.

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<b>SARA 311/312 Hazardous chemical</b>	Yes
<b>SARA 313 (TRI reporting)</b>	
Methyl Methacrylate (CAS# 80-62-6)	Listed
Nickel Compounds	Listed

### Other federal regulations

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not listed.

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not listed.

#### **Safe Drinking Water Act (SDWA)**

Not listed.

### US State regulations:

\*Warning, this product contains chemical(s) known to the state of California to cause cancer and/or birth defects or other reproductive harm. The Proposition 65 chemical(s) found in this product appear in trace amounts and would not be expected to pose significant risk; however, a risk assessment for this (these) chemical(s) has not yet been performed. Each product should be assessed in light of its use.

#### **US. Massachusetts RTK – Substance List**

Methyl Methacrylate(CAS# 80-62-6)

#### **US. New Jersey Worker and Community Right-to-Know Act**

Methyl Methacrylate(CAS# 80-62-6)

#### **US. Pennsylvania Worker and Community Right-to-Know Law**

Methyl Methacrylate(CAS# 80-62-6)

#### **US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Nickel Compounds listed.

### Canada regulations

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR).**

### WHMIS classification

D2

Materials Causing Other Toxic Effects.



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### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non- Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemical List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A “Yes” indicates this product complies with the inventory requirements administered by the governing country(s).  
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

**Issue date** 01- Jan-2013

**Revision date** 23-Jul-2015

**Version #** -

#### NFPA AND HMIS Ratings

#### NFPA Codes

Health - 2  
Flammability - 0  
Reactivity - 0

#### HMIS Codes

Health - 1  
Flammability - 0  
Reactivity - 0

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### References

ACGIH: Documentation of the Threshold Limit Values and Biological Exposure indices  
ECHA: European Chemicals Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
NIOSH: The National Institute for Occupational Safety and Health  
NTP: National Toxicology Program  
NLM: Hazardous Substances Data Base  
OECD : Organization for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration

**Disclaimer:** The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations.

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