

SAFETY DATA SHEET

Mitsubishi Chemical Advanced Materials 2120 Fairmont Avenue Reading, PA, 19609 T: 610-320-6600 Regulatorysupport.mcam@mcgc.com mcam.com

ID# SDS-30

Issue Date: January 10, 2024 Revised Date: January 31, 2024 Revision No. 002

Section 1: Identification

Product Identifier: Sanalite® HDPE Grey

Manufacturer:

Mitsubishi Chemical Advanced Materials, Inc.

2120 Fairmont Ave. Reading, PA 19605 (610) 320-6600

In case of an emergency, please call Chemtrec 1-800-424-9300.

Recommended Use: Industrial application for abrasion and chemical resistant applications

Section 2: Hazard Identification

GHS - Classifications

Classification: None

Signal Word: None

Pictograms and Symbols: None

Hazard Statements: None

Precautionary Statements: None

Section 3: Composition/Information on Ingredients

Chemical Name	CAS No.	Weight %
Polyethylene	9002-88-4	≥ 98%
Grey Pigment		≤ 2%

Section 4: First-Aid Measures

Eyes: Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation continues.

Skin: No health risks concerning skin contact at room temperature. Wash with soap and water. If molten material comes in contact with the skin, cool under running water. Do not attempt to remove the molten material from the skin. Get medical attention immediately.

Inhalation: If inhaled, remove to fresh air. Seek medical attention if respiratory irritation occurs or breathing becomes difficult.

Ingestion: Rinse the victim's mouth with plenty of water. Do not induce vomiting. Seek medical attention.



Section 5: Fire-Fighting Measures

Fire-fighters should protect themselves from decomposition and combustion products (CO, CO₂, nitrogen oxides, sulfur oxides, metal oxides, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes, and alcohols) by using a full-face self-contained breathing apparatus and impervious protective clothing. When heated produces respiratory sensitizers gases and/or fumes. Extinguish fires with water, foam, carbon dioxide or dry chemical media.

Dust is flammable and explosive when finely divided and suspended in air.

Section 6: Accidental Release Measures

If a spill occurs, stop the leak at the source and sweep up for disposal. Do not flush to sewers or waterways.

Section 7: Handling and Storage

Precautions for Safe Handling

Personal hygiene such as washing the hands and face immediately after working with this material and before eating is recommended.

Dust may form explosive mixtures with air. Avoid dust formation and control ignition sources. Polyolefin dust particles suspended in air are combustible and may be explosive. Keep away from heat, sparks, flame, and other ignition sources. Prevent dust accumulations and dust clouds. Employ ground, bonding, venting, and explosive relief provisions in accordance with accepted engineering practices and NFPA provisions in any process capable of generating dust and/or static electricity. Explosion hazards apply only to dusts, not granular forms of this product.

The handling of powder in both loading and unloading operations, as well as fabrication, may cause dust to be formed and necessary precautions for personal protection should be used. As with all finely divided materials precautions should be taken to avoid inhalation and eye contact.

If in dust form, transfer from storage with a minimum amount of dusting. Ground all transfer, blending, and dust collecting equipment to prevent static sparks in accordance with NFPA 70 "National Electric Code." Review and comply with all relevant NFPA provisions, including but not limited to NFPA 484 and NFPA 654 related to combustible dust hazards. Remove all ignition sources from material handling, transfer, and processing areas where dust may be present. Local exhaust ventilation should be provided in work area.

Precautions for Safe Storage

Store in a sprinkler protected warehouse. Since products are polyethylene, they will burn with a hot flame if ignited. Avoid contact with ignition sources such as open flames. Keep a fire extinguisher near if welding is done in the area of polyethylene products. If a heat source is present, keep the area well ventilated.

Section 8: Exposure Controls/Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Particulates	10 mg/m ³	15 mg/m³ – Total 5 mg/m³ – Respirable	Not Established
Carbon Black	3.5 mg/m ³	3.5 mg/m ³	3.5 mg/m ³
Titanium Dioxide	2.5 mg/m ³	15 mg/m ³	Not Established



Silica; amorphous	Not Established	Not Established	6 mg/m ³

Engineering Measures:

Provide local exhaust ventilation to keep airborne concentrations below the recommended OEL.

Personal Protective Equipment: Eyes/Face

Safety glasses with side shields.

Personal Protective Equipment: Skin

When handling molten material, protective clothing such as long sleeves or laboratory coat should be worn. Use heat-resistant gloves, boots, and face protection.

Personal Protective Equipment: Respiratory

If levels are above published OELs, then a NIOSH approved respirator with particulate filters. If the material is being burned wear an organic filter.

Good industrial hygiene practice should be followed which includes preventing eye contact, minimizing skin contact, and minimizing inhalation of dust, vapors or mist.

Section 9: Physical and Chemical Properties

Appearance and Odor

Odor Threshold

Specific Gravity (Relative Density)

Solubility in Water

VOC Content (%) pH

Melting Point/Freezing Point

Vapor Pressure
Vapor Density
Evaporation Rate
Boiling Point
Flammability
Flash Point

Explosion Data

Auto ignition Point

Partition Coefficient: n-octanol/water

Decomposition Temperature

Viscosity

Waxy solid with mild hydrocarbon odor

mcam.com

No Information Available

.91-.98

Negligible

No data available No data available

219.2-280.4°F

No data available

No data available

No data available

No data available

Combustible

No data available

LEL – No data available

UEL - No data available

649.4°F

No data available

No data available

No data available

Section 10: Stability and Reactivity

Reactivity:

None known

Chemical Stability:

Material is stable under normal industrial conditions and is not susceptible to hazardous polymerization.

Possibility of Hazardous Reactions:

Does not react with air, water, or other common materials



Conditions to Avoid:

Avoid contact with strong oxidizers, excessive heat, sparks, or open flame. Dust accumulation.

Incompatibility:

Material may be softened by some hydrocarbons.

Hazardous Decomposition Products:

Not expected to decompose under normal conditions. If decomposition does occur products include oxides of sulfur, metal, nitrogen and carbon, carbon monoxide, carbon dioxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes, and alcohols

Section 11: Toxicological Information

Signs and Symptoms of Overexposure: Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Skin irritation signs and symptoms may include a burning sensation, redness and swelling. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

Aggravated Medical: None.

Acute Effects: Non-toxic.

Skin Corrosion/Irritation: Not irritating to the skin.

Serious Eye Damage/Irritation: Particulates can be mechanically irritating to the eyes.

Ingestion: No adverse health effects were noted on the digestive system of test animals when fed

up to 20% polyethylene.

Inhalation: Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs.

Respiratory or Skin Sensitization: Not expected to be a sensitizer.

Chronic Effects:

Germ Cell Mutagenicity: Not expected to be a germ cell mutagen.

Carcinogenicity: Possible risk of irreversible effects. Carbon black and Titanium Dioxide are classified by IARC: Group 2B possible human carcinogen. Silica is classified by IARC: Group 3 not classifiable. When encapsulated in a plastic matrix, risk of exposure is reduced.

Reproductive Toxicity: There aren't known reproductive toxicity effects.

STOT-single Exposure: At dust form, may cause respiratory irritation with cough and sneezing.

STOT –multiple Exposure: There aren't known repeated exposure effects.

Aspiration Hazard: No data available. Not expected to be an aspiration hazard.

Primary Route of Entry: Inhalation of particulates.

Section 12: Ecological Information

Ecotoxicity:

There aren't known ecological toxicity values.

Persistence and degradability:

It's expected high persistence and slow degradability.

Bioaccumulative Potential:

It's expected moderate to high bioaccumulative potential.



Mobility in Soil: No data available

Other Adverse Effects:

No data available

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)

Section 13: Disposal Considerations

According to the 'European Waste Catalogue and Hazardous Waste List', uncontaminated waste from the products is not classified as hazardous. The following six-digit codes can be used:

07 02 13 waste plastic from the manufacture, formulation, supply and use of plastics

12 01 05 plastic shavings and turnings

16 01 19 plastic, from end-of-life vehicles from different means of

transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle

maintenance

17 02 03 plastic construction and demolition wastes

20 01 39 plastics from municipal wastes (household waste and

similar commercial, industrial and institutional wastes)

Waste disposal: When recycling is not feasible, waste disposal by incineration or

landfill can be applied. Disposal methods shall conform to local or

other government regulations.

Section 14: Transportation Information

US Department of Transportation Classification (49CFR)

Not classified as hazardous for transport.

Section 15: Regulatory Information

SARA Section 302 & 304:

No chemicals

SARA Section 311 & 312:

No reporting requirements although it is suggested that storage of >10,000 lbs. of polyethylene in one facility should be listed on a Tier II report.

SARA Section 313:

The following component is subject to reporting levels established by SARA Title III, Section 313:

None

TSCA:

All components of this product are either listed or are exempt on the TSCA inventory.



Section 16: Other Information

Product Identifier: Sanalite® HDPE Grey

Manufacturer:

Mitsubishi Chemical Advanced Materials, Inc. 2120 Fairmont Ave. Reading, PA 19605 (610) 320-6600

In case of an emergency, please call Chemtrec 1-800-424-9300.

Classification: None

Signal Word: None

Pictograms and Symbols: None

Hazard Statements: None

Precautionary Statements: None

Revision Date	Reason for Revision
January 10, 2024	Initial Release
January 31, 2024	Updated Section 3 to reflect 98% polyethylene, 2% grey
	pigment.

Hazard data contained herein was obtained from raw material suppliers. The information presented is believed to be factual, as it was derived from the works and opinions of persons believed to be qualified. However, no facts contained in the information are to be taken as a warranty, or representation, for which Mitsubishi Chemical Advanced Materials, Inc. bears legal responsibility. The user should review any recommendation in the specific context of the intended use to determine if they are appropriate.

Acetron®, Altron™, Armor-X®, BIOpreg®, Borotron®, carboNXT®, Ceram P™, Cestidur®, Chirulen®, Duratron®, Ertacetal®, Ertalon®, Ertalyte®, Extrulen®, Flextron™, Fluorosint®, Ketron®, Keylon®, Kyron®, KyronMAX®, KyronTEX®, MC®, Nylamid™, Nylatrack®, Nylatron®, Proteus®, Quadrant®, QuickSilver®, RCH®, Sanalite®, Semitron®, Statera™, Sterra™, Sultron®, System TIVAR™, Techtron®, TIVAR®, and Ultraslide™ are registered trademarks of the Mitsubishi Chemical Advanced Materials group of companies.

All statements, technical information, recommendations, and advice are for informational purposes only and are not intended and should not be construed as a warranty of any type or term of sale. The reader, however, is cautioned that Mitsubishi Chemical Advanced Materials does not guarantee the accuracy or completeness of this information and it is the customer's responsibility to test and assess the suitability of the products of Mitsubishi Chemical Advanced Materials in any given application or for use in a finished device.