

**SAFETY DATA SHEET****149B/SHALE**Version Number 1.5  
Revision Date 09/01/2023Page 1 of 17  
Print Date 09/05/2023**SAFETY DATA SHEET****149B/SHALE****Section 1. Identification**

**GHS product identifier** : 149B/SHALE  
**Chemical name** : Mixture  
**CAS number** : Mixture  
**Other means of identification** : CC10025616  
**Product type** : solid

**Relevant identified uses of the substance or mixture and uses advised against****Product use** : Industrial applications.

**Supplier's details** : **AVIENT CORPORATION**  
 33587 Walker Road, Avon Lake, OH 44012  
 1 (440) 930-1000 or 1 (844) 4AVIENT

**Emergency telephone number (with hours of operation)** : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

**Section 2. Hazards identification**

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

**GHS label elements**

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

# SAFETY DATA SHEET

## 149B/SHALE

Version Number 1.5  
 Revision Date 09/01/2023

Page 2 of 17  
 Print Date 09/05/2023

### Precautionary statements

**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.  
**Disposal** : Not applicable.  
**Supplemental label elements** : None known.  
**Hazards not otherwise classified** : None known.  
 Not available.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Chemical name** : Mixture  
**Other means of identification** : CC10025616

### CAS number/other identifiers

Ingredient name	%	CAS number
2-Propenenitrile, polymer with Ethenylbenzene	>= 25 - <= 50	9003-54-7
Titanium dioxide	>= 25 - <= 50	13463-67-7
Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	>= 10 - <= 25	52829-07-9
Silica, amorphous	>= 1 - <= 3	7631-86-9
Carbon black	> 0 - <= 0.3	1333-86-4
Styrene	> 0 - <= 0.3	100-42-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## SAFETY DATA SHEET

**149B/SHALE**

Version Number 1.5  
Revision Date 09/01/2023

Page 3 of 17  
Print Date 09/05/2023

**Description of necessary first aid measures**

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed****Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

**Indication of immediate medical attention and special treatment needed, if necessary**

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

**SAFETY DATA SHEET**

**149B/SHALE**

Version Number 1.5  
 Revision Date 09/01/2023

Page 4 of 17  
 Print Date 09/05/2023

**Section 5. Fire-fighting measures**

**Extinguishing media**

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : No specific fire or explosion hazard.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 nitrogen oxides  
 metal oxide/oxides

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Section 6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods and materials for containment and cleaning up**

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material

# SAFETY DATA SHEET

## 149B/SHALE

Version Number 1.5  
 Revision Date 09/01/2023

Page 5 of 17  
 Print Date 09/05/2023

and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

**Precautions for safe handling**

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

**Control parameters**

**Occupational exposure limits**

Ingredient name	Exposure limits
2-Propenenitrile, polymer with Ethenylbenzene	None.
Titanium dioxide	<b>OSHA PEL 1989 (1989-03-01)</b> TWA 10 mg/m <sup>3</sup> Form: Total dust <b>OSHA PEL (1993-06-30)</b> TWA 15 mg/m <sup>3</sup> Form: Total dust <b>ACGIH TLV (2022-01-06)</b> TWA 0.2 mg/m <sup>3</sup> Form: respirable fraction, nanoscale particles TWA 2.5 mg/m <sup>3</sup> Form: respirable fraction, finescale particles
Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	None.

**SAFETY DATA SHEET**

**149B/SHALE**

Version Number 1.5  
 Revision Date 09/01/2023

Page 6 of 17  
 Print Date 09/05/2023

Silica, amorphous	<b>NIOSH REL (1994-06-01)</b> TWA 6 mg/m <sup>3</sup>
Carbon black	<b>OSHA PEL 1989 (1989-03-01)</b> TWA 3.5 mg/m <sup>3</sup> <b>OSHA PEL (1993-06-30)</b> TWA 3.5 mg/m <sup>3</sup> <b>NIOSH REL (1994-06-01)</b> TWA 3.5 mg/m <sup>3</sup> <b>NIOSH REL (1994-06-01)</b> TWA 0.1 mgPAH/m <sup>3</sup> <b>ACGIH TLV (2010-12-06)</b> TWA 3 mg/m <sup>3</sup> Form: Inhalable fraction
Styrene	<b>ACGIH TLV (2020-03-01) Ototoxicant</b> TWA 10 ppm STEL 20 ppm <b>NIOSH REL (1994-06-01)</b> TWA 215 mg/m <sup>3</sup> 50 ppm STEL 425 mg/m <sup>3</sup> 100 ppm <b>OSHA PEL 1989 (1989-03-01)</b> TWA 215 mg/m <sup>3</sup> 50 ppm STEL 425 mg/m <sup>3</sup> 100 ppm <b>OSHA PEL Z2 (1993-06-30)</b> TWA 100 ppm CEIL 200 ppm AMP 600 ppm

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

## SAFETY DATA SHEET

### 149B/SHALE

Version Number 1.5  
Revision Date 09/01/2023

Page 7 of 17  
Print Date 09/05/2023

- showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : solid [Pellets.]
- Color** : GREY
- Odor** : Faint odor.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Not applicable.
- Burning time** : Not available.
- Burning rate** : Not available.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : **Lower:** Not applicable.  
**Upper:** Not applicable.
- Vapor pressure** : Not available.

## SAFETY DATA SHEET

### 149B/SHALE

Version Number 1.5  
Revision Date 09/01/2023

Page 8 of 17  
Print Date 09/05/2023

<b>Vapor density</b>	:	Not applicable.
<b>Relative density</b>	:	Not available.
<b>Solubility</b>	:	Not available.
<b>Solubility in water</b>	:	insoluble in water.
<b>Partition coefficient: n-octanol/water</b>	:	Not applicable.
<b>Auto-ignition temperature</b>	:	Not applicable.
<b>Decomposition temperature</b>	:	Not available.
<b>SADT</b>	:	Not available.
<b>Viscosity</b>	:	<b>Dynamic:</b> Not available. <b>Kinematic:</b> Not applicable.

## Section 10. Stability and reactivity

<b>Reactivity</b>	:	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	:	Stable under recommended storage and handling conditions (see Section 7).
<b>Possibility of hazardous reactions</b>	:	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	:	Keep away from extreme heat and oxidizing agents.
<b>Incompatible materials</b>	:	Keep away from strong acids. Oxidizer.
<b>Hazardous decomposition products</b>	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Propenenitrile, polymer with ethenylbenzene				
	LD50 Oral	Rat	1,800 mg/kg	-
Titanium oxide (TiO2)				
	LC50 Inhalation Dusts and mists	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Decanedioic acid, 1,10-bis(2,2,6,6-tetramethyl-4-piperidinyl) ester				
	LC50 Inhalation	Rat	0.5 Mg/l	4 h



**SAFETY DATA SHEET**

**149B/SHALE**

Version Number 1.5  
 Revision Date 09/01/2023

Page 9 of 17  
 Print Date 09/05/2023

	Vapor			
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-
Styrene				
	LD50 Oral	Rat	2,650 mg/kg	-
	LC50 Inhalation Gas.	Rat	2,770 ppm	4 h
	LC50 Inhalation Vapor	Rat	11.8 Mg/l	4 h

**Conclusion/Summary** : Mixture.Not fully tested.

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Silica	Eyes - Mild irritant	Rabbit	-	24 hrs	-
Styrene	Eyes - Mild irritant	Human	-		-
	Skin - Mild irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit	-		-
	Eyes - Severe irritant	Rabbit	-		-
	Eyes - Moderate irritant	Rabbit	-	24 hrs	-

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Eyes** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Sensitization**

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.  
**Respiratory** : Mixture.Not fully tested.

**Mutagenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Carcinogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Classification**

Product/ingredient name	OSHA	IARC	NTP
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# SAFETY DATA SHEET

## 149B/SHALE

Version Number 1.5  
 Revision Date 09/01/2023

Page 10 of 17  
 Print Date 09/05/2023

2-Propenenitrile, polymer with ethenylbenzene	-	3	-
Titanium oxide (TiO2)	-	2B	-
Silica	-	3	-
Carbon black	-	2B	-
Styrene	-	2B	Reasonably anticipated to be a human carcinogen.

### Reproductive toxicity

**Conclusion/Summary** : Mixture.Not fully tested.

### Teratogenicity

**Conclusion/Summary** : Mixture.Not fully tested.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

# SAFETY DATA SHEET

## 149B/SHALE

Version Number 1.5  
 Revision Date 09/01/2023

Page 11 of 17  
 Print Date 09/05/2023

### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

**Conclusion/Summary** : Mixture. Not fully tested.

**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

Acute toxicity estimates  
 N/A

**Other information** : This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium oxide (TiO <sub>2</sub> )			
	Acute LC50 > 1,000 Mg/l Marine water	Fish - Fundulus heteroclitus	96 h
	Acute LC50 3 Mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 h
	Acute LC50 6.5 Mg/l Fresh water	Daphnia - Daphnia pulex	48 h
Decanedioic acid, 1,10-bis(2,2,6,6-tetramethyl-4-piperidinyloxy) ester			
	Acute EC50 8.6 Mg/l Fresh water	Daphnia	48 h
Carbon black			

# SAFETY DATA SHEET

## 149B/SHALE

Version Number 1.5  
Revision Date 09/01/2023

Page 12 of 17  
Print Date 09/05/2023

	Acute EC50 37.563 Mg/l Fresh water	Daphnia - Daphnia magna	48 h
Styrene			
	Acute LC50 4.02 Mg/l Fresh water	Fish - Pimephales promelas	96 h
	Acute EC50 0.0047 Mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute LC50 52 Mg/l Marine water	Crustaceans - Artemia salina	48 h
	Acute EC50 78 Mg/l Marine water	Algae - Skeletonema costatum	96 h
149B/SHALE			
<b>Remarks - Acute - Aquatic invertebrates.:</b>	Chemicals are not readily available as they are bound within the polymer matrix.		

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

### Persistence and degradability

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Decanedioic acid, 1,10-bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	0.35	-	low
Styrene	0.35	13.49	low

### Mobility in soil

**Soil/water partition coefficient (KOC)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever

**SAFETY DATA SHEET**

**149B/SHALE**

Version Number 1.5  
 Revision Date 09/01/2023

Page 13 of 17  
 Print Date 09/05/2023

possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**United States - RCRA Acute hazardous waste "P" List:** Not listed

**United States - RCRA Toxic hazardous waste "U" List:** Not listed

**Section 14. Transport information**

- U.S.DOT 49CFR Ground/Air/Water : Not regulated for transportation.
- International Air ICAO/IATA : Not classified as dangerous goods under transport regulations.
- International Water IMO/IMDG : Not classified as dangerous goods under transport regulations.

**Section 15. Regulatory information**

- U.S. Federal regulations :
  - United States - TSCA 12(b) - Chemical export notification:** None of the components are listed.
  - United States - TSCA 4(a) - Final Test Rules:** Not listed
  - United States - TSCA 4(a) - ITC Priority list:** Not listed
  - United States - TSCA 4(a) - Proposed test rules:** Not listed
  - United States - TSCA 4(f) - Priority risk review:** Not listed
  - United States - TSCA 5(a)2 - Final significant new use rules:** Not listed
  - United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed
  - United States - TSCA 5(e) - Substances consent order:** Not listed
  - United States - TSCA 6 - Final risk management:** Not listed
  - United States - TSCA 6 - Proposed risk management:** Not listed
  - United States - TSCA 8(a) - Chemical risk rules:** Not listed

# SAFETY DATA SHEET

## 149B/SHALE

Version Number 1.5  
 Revision Date 09/01/2023

Page 14 of 17  
 Print Date 09/05/2023

**United States - TSCA 8(a) - Dioxin/Furane precursor:** Not listed  
**United States - TSCA 8(a) - Chemical Data Reporting (CDR):** Not determined  
**United States - TSCA 8(a) - Preliminary assessment report (PAIR):** Not listed  
**United States - TSCA 8(c) - Significant adverse reaction (SAR):** Not listed  
**United States - TSCA 8(d) - Health and safety studies:** Not listed  
**United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Listed **Rutile, antimony chromium buff**  
**Ethyl benzene**  
**Acrylonitrile**

**United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Listed  
**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances:** Not listed  
**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:** Not listed  
**United States - Department of commerce - Precursor chemical:** Not listed

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Listed  
**Clean Air Act Section 602 Class I Substances** : Not listed  
**Clean Air Act Section 602 Class II Substances** : Not listed  
**DEA List I Chemicals (Precursor Chemicals)** : Not listed  
**DEA List II Chemicals (Essential Chemicals)** : Not listed

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

not applicable

**SARA 311/312**

**Classification** : Not applicable.

**Composition/information on ingredients**

No products were found.

Name	%	Classification
2-Propenenitrile, polymer with ethenylbenzene	>= 25 - <= 50	ACUTE TOXICITY - oral - Category 4

**SAFETY DATA SHEET**

**149B/SHALE**

Version Number 1.5  
Revision Date 09/01/2023

Page 15 of 17  
Print Date 09/05/2023

Titanium oxide (TiO <sub>2</sub> )	>= 25 - <= 50	CARCINOGENICITY - Category 2
Decanedioic acid, 1,10-bis(2,2,6,6-tetramethyl-4-piperidinyl) ester	>= 10 - <= 25	ACUTE TOXICITY - inhalation - Category 1 SERIOUS EYE DAMAGE - Category 1
Silica	>= 1 - <= 3	EYE IRRITATION - Category 2B
Carbon black	> 0 - <= 0.3	CARCINOGENICITY - Category 2
Styrene	> 0 - <= 0.3	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY - inhalation - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

**SARA 313**

**Form R - Reporting requirements**

Product name	CAS number	%
Rutile, antimony chromium buff	68186-90-3	>= 3 - < 7
Styrene	100-42-5	>= 0.1 - < 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

**Massachusetts**

- : The following components are listed:  
Titanium dioxide  
Calcium carbonate  
Silica, amorphous

**New York**

- : None of the components are listed.

**New Jersey**

- : The following components are listed:  
2-Propenenitrile, polymer with Ethenylbenzene  
Titanium dioxide  
Rutile, antimony chromium buff  
Calcium carbonate  
Carbon black

**Pennsylvania**

- : The following components are listed:  
Titanium dioxide

# SAFETY DATA SHEET

## 149B/SHALE

Version Number 1.5  
 Revision Date 09/01/2023

Page 16 of 17  
 Print Date 09/05/2023

Rutile, antimony chromium buff

Calcium carbonate

Silica, amorphous

### California Prop. 65

**⚠ WARNING:** This product can expose you to chemicals including Titanium dioxide, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	-	-
Carbon black	-	-
Styrene	Yes.	-

**United States inventory (TSCA 8b) :** All components are active or exempted.

**Canada inventory :** At least one component is not listed in DSL but all such components are listed in NDSL.

### International regulations

#### Inventory list

- Australia :** Not determined.
- Canada :** At least one component is not listed in DSL but all such components are listed in NDSL.
- China :** Not determined.
- Eurasian Economic Union :** **Russian Federation inventory:** Not determined.
- Japan :** **Japan inventory (CSCL):** Not determined.  
**Japan inventory (ISHL):** Not determined.
- New Zealand :** Not determined.
- Philippines :** Not determined.
- Republic of Korea :** All components are listed or exempted.
- Taiwan :** Not determined. All components are listed or exempted.
- Thailand :** Not determined.
- Turkey :** Not determined.
- United States :** All components are active or exempted.
- Viet Nam :** Not determined.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

<b>Health</b>	/	0
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**SAFETY DATA SHEET**

**149B/SHALE**

Version Number 1.5  
 Revision Date 09/01/2023

Page 17 of 17  
 Print Date 09/05/2023

<b>Flammability</b>	0
<b>Physical hazards</b>	0

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

History

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**Key to abbreviations**

- : ATE = Acute Toxicity Estimate
- : BCF = Bioconcentration Factor
- : GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- : IATA = International Air Transport Association
- : IBC = Intermediate Bulk Container
- : IMDG = International Maritime Dangerous Goods
- : LogPow = logarithm of the octanol/water partition coefficient
- : MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- : UN = United Nations

- References** : Not available.

Notice to reader

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