



## Material Safety Data Sheet

Prepared in accordance with ISO 11014-1/ANSI standard Z400.1-2004

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product code** SIPI536  
**Product name** Card Silver BN001  
**Product description** Pearlescent Specialty Pigment

#### Manufacturer or supplier's details

UNITED STATES  
Nazdar Company  
8501 Hedge Lane Terrace  
Shawnee, KS 66227  
Tel: 1-913-422-1888  
Tel: 1-800-677-4657  
Fax: 1-913-422-2294

UNITED KINGDOM  
Nazdar Limited  
7 Barton Road  
Heaton Mersey Industrial Estate  
Stockport, Chesire SK4 3EG  
Tel: +44 161 442 2111

#### Emergency Telephone Number

USA: Chemtrec: 1-800-424-9300  
Outside USA: Chemtrec: 1-703-527-3887

Website: [www.nazdar.com](http://www.nazdar.com)  
MSDS Information: 1-913-422-1888 ext 2305  
MSDS Contact: Regulatory Compliance  
email: [regcomp@nazdar.com](mailto:regcomp@nazdar.com)

### 2. HAZARDS IDENTIFICATION

*This product is a preparation. Health hazard information is based on its components.*

**Appearance** Silver  
**Emergency Overview** Irritant.

**Eyes** Dust contact with the eyes can lead to mechanical irritation. .  
**Skin** Powder can cause localised skin irritation in folds of the skin or under tight clothing.  
**Inhalation** Avoid breathing dust. Irritating to respiratory system.  
**Ingestion** Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Mica	12001-26-2	60 - 100
Titanium dioxide, rutile	1317-80-2	10 - 30
Graphite, natural	7782-42-5	1 - 5

### 4. FIRST AID MEASURES

**Skin Contact** Wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.

**Eye Contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

**Inhalation** Move to fresh air. If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

**Ingestion** If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

### 5. FIRE-FIGHTING MEASURES

**Flammable Properties** No information available

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Specific Hazards Arising from the Chemical</b>	Risk of dust explosion in fine crystalline powder form.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Remove all sources of ignition. Heat, flames and sparks. Ventilate the area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
<b>Methods for Cleaning Up</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not use sparking tools. Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically and collect in suitable container for disposal. Avoid dust formation. Clean contaminated surface thoroughly.
<b>Environmental Precautions</b>	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and wash contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Take notice of labels and material safety data sheets for the working chemicals. Do not take internally. Harmful or fatal if swallowed.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Keep away from heat and sources of ignition. Take notice of the directions of use on the label.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Component	Weight %	ACGIH TLV	OSHA PEL	Ontario TWA EV
Mica	60 - 100	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>
Titanium dioxide, rutile	10 - 30	TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>
Graphite, natural	1 - 5	TWA: 2 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>

Component	Weight %	NIOSH IDLH	Mexico OEL (TWA)
Mica	60 - 100	1500 mg/m <sup>3</sup> containing <1% quartz	TWA: 3 mg/m <sup>3</sup>
Titanium dioxide, rutile	10 - 30	5000 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>
Graphite, natural	1 - 5	1250 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>

NIOSH IDLH: Immediately Dangerous to Life or Health

<b>Engineering Measures</b>	Use only with adequate ventilation. Use ventilation adequate to keep exposures below recommended exposure limits. See MSDS. In case of insufficient ventilation, wear suitable respiratory equipment.
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### Personal Protective Equipment

<b>Respiratory Protection</b>	Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respirator with a dust filter.
<b>Eye Protection</b>	Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.
<b>Skin Protection</b>	Wear protective gloves/clothing.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before eating, drinking, or smoking. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Silver	<b>Physical State</b>	Powder
<b>Odor</b>	Odorless	<b>Odor Threshold</b>	No information available
<b>pH</b>	Not applicable	<b>Autoignition Temperature</b>	No information available
<b>Boiling point/Boiling Range</b>	No information available	<b>Melting Point/Range</b>	No information available
<b>Freezing Point/Range</b>	No information available	<b>Solubility</b>	Insoluble
<b>Evaporation Rate</b>	No information available	<b>Partition Coefficient (n-octanol/water)</b>	No information available
<b>Vapour Pressure</b>	No information available	<b>Vapour Density</b>	No information available
<b>Flammability (solid, gas)</b>	No information available	<b>Flash Point</b>	Not applicable
<b>Flammability Limits in Air</b>		<b>Photochemically Reactive</b>	No
<b>Upper</b>	No information available	<b>Specific Gravity</b>	3.099
<b>Lower</b>	No information available	<b>VOC by volume</b>	0
<b>Weight Per Gallon (lbs/gal)</b>	25.84	<b>VOC grams/liter</b>	0
<b>VOC by weight</b>	0		
<b>VOC lbs/gal</b>	0		

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to Avoid</b>	Heat, flames and sparks
<b>Incompatible Products</b>	Incompatible with strong acids and bases
<b>Hazardous Decomposition Products</b>	None under normal use conditions
<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide, rutile	10000 mg/kg ( Rat )		

### Chronic Toxicity

<b>Sensitisation</b>	No information available
<b>Mutagenic Effects</b>	No information available

<b>Reproductive Effects</b>	No information available
<b>Developmental Effects</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Chronic Effects</b>	No information available
<b>Target Organ Effects</b>	Central Vascular System, Lungs, Respiratory system.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

We have no quantitative data concerning the ecological effects of this product. Should not be released into the environment.

<b>Persistence and Degradability</b>	No information available
<b>Bioaccumulation</b>	No information available
<b>Mobility in Environmental Media</b>	No information available

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	Dispose of contents/container in accordance with local regulation.
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

### DOT

Paint Related Material, Dry Pigment / Powder, Not Regulated

### ICAO/IATA

Not classified as dangerous in the meaning of transport regulations

### IMDG/IMO

Not classified as dangerous in the meaning of transport regulations

## 15. REGULATORY INFORMATION

### International Inventories

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

### U.S. State Regulations

#### **State Right-to-Know**

Component	Minnesota	Florida	New Jersey	Pennsylvania	Massachusetts	Rhode Island
Mica	Not Listed	Not Listed	X	X	X	X
Titanium dioxide, rutile	Not Listed	Not Listed	X	X	X	X
Graphite, natural	Not Listed	Not Listed	X	X	X	X

### Canada

