

# 4216 Diamond Crystal #4

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Revision Date: 06/09/2015

Date of issue: 05/05/2015

Version: 1.1

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Name:** 4216 Diamond Crystal #4

### 1.2. Intended Use of the Product

Polishing Compound.

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Ardex Laboratories, Inc.

2050 Byberry Rd

Philadelphia, PA 19116

T 215-698-0500

[ardexlabs.com](http://ardexlabs.com)

### 1.4. Emergency Telephone Number

**Emergency Number** : 800-424-9300

CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE NUMBER

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### Classification (GHS-US)

Skin Irrit. 3 H316

Flamm. 4. H227

Eye irritant 2b. H320

Full text of H-phrases: see section 16

### 2.2. Label Elements

#### GHS-US Labeling

**Hazard Pictograms (GHS-US)** :

**Signal Word (GHS-US)** : Warning

**Hazard Statements (GHS-US)** : H227 Combustible liquid  
H316 – Causes mild skin irritation.  
H320 – Causes eye irritation

**Precautionary Statements (GHS-US)** : P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P302+P352+P362- IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash before reuse.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**2.4. Unknown Acute Toxicity (GHS-US)** No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No) 7732-18-5	Q.S to 100	Not classified
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	<40	Flam. Liq. 3, H226

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			Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304
Kaolin, calcined	(CAS No) -92704-41-1	<20	Not classified
Siloxanes and Silicones, di-Me	(CAS No) 63148-62-9	<20	Not classified
Glycerin	(CAS No) 56-81-5	<20	Not classified

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes skin irritation.

**Inhalation:** May cause respiratory irritation.

**Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Eye Contact:** May cause eye irritation.

**Ingestion:** May be harmful if ingested in large quantities.

**Chronic Symptoms:** None expected under normal conditions of use.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical, carbon dioxide, foam, water spray.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>).

#### Reference to Other Sections

Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

##### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

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**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

### 7.3. Specific End Use(s)

Polishing compound.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Petroleum distillates, hydrotreated light (64742-47-8)		
British Columbia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup> (application restricted to conditions in which there are negligible aerosol exposures)
Kaolin, calcined (92704-41-1)		
Mexico	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
Alberta	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
Nunavut	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Nunavut	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Québec	VEMP (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Yukon	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (Al <sub>2</sub> O <sub>3</sub> )
Yukon	OEL TWA (mg/m <sup>3</sup> )	30 mppcf (Al <sub>2</sub> O <sub>3</sub> )
Glycerin (56-81-5)		
Mexico	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (mist, total particulate) 5 mg/m <sup>3</sup> (mist, respirable fraction)
Alberta	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
British Columbia	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)

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Nunavut	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (mist)
Nunavut	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (mist)
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
Ontario	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
Québec	VEMP (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
Saskatchewan	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (mist)
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (mist)
Yukon	OEL TWA (mg/m <sup>3</sup> )	30 mppcf (mist)

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: CREAMY LIQUID, #4216-LIGHT PURPLE
Odor	: Hydrocarbon-Fruity odor
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: 18 °F (-7.78 °C)
Boiling Point	: 210 - 212 °F (98.9 - 100 °C)
Flash Point	: 176°F ASTM D93- Procedure B (Pensky Marten closed cup)
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: 1 %
Upper Flammable Limit	: 7 %
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.00 - 1.45
Solubility	: Dispersible
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available

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<b>Viscosity, Dynamic</b>	: 14000 cP
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact
<b>Explosion Data – Sensitivity to Static Discharge</b>	: Not expected to present an explosion hazard due to static discharge

### SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. **Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. **Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Incompatible materials.
- 10.5. **Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
- 10.6. **Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Causes skin irritation

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation

**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis

**Symptoms/Injuries After Eye Contact:** May cause eye irritation

**Symptoms/Injuries After Ingestion:** May be harmful if ingested in large quantities

**Chronic Symptoms:** None expected under normal conditions of use

#### 11.2. Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5.2 mg/l/4h
<b>Kaolin, calcined (92704-41-1)</b>	
LD50 Oral Rat	> 2000 mg/kg
<b>Glycerin (56-81-5)</b>	
LD50 Oral Rat	27.2 g/kg
LD50 Dermal Rabbit	> 10 g/kg
LC50 Inhalation Rat	> 570 mg/m <sup>3</sup> (Exposure time: 1 h)
<b>Water (7732-18-5)</b>	
LD50 Oral Rat	> 90000 mg/kg

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

**Ecology - General:** Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
LC50 Fish 1	Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.

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LC 50 Fish 2	Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.
<b>Kaolin, calcined (92704-41-1)</b>	
LC50 Fish 1	> 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 Daphnia 1	> 1 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Glycerin (56-81-5)</b>	
LC50 Fish 1	54000 (51000 - 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

### 12.2. Persistence and Degradability

<b>Siloxanes and Silicones, di-Me (63148-62-9)</b>	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
BCF Fish 1	61 - 159
<b>Siloxanes and Silicones, di-Me (63148-62-9)</b>	
Bioaccumulative Potential	Not established.
<b>Glycerin (56-81-5)</b>	
BCF Fish 1	(no bioaccumulation)
Log Pow	-1.76

12.4. Mobility in Soil Not available

12.5. Other Adverse Effects Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

## SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

14.4. In Accordance with TDG Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>4216 Diamond Crystal #4</b>	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>OSHA Hazards (HCS 1994)</b> Combustible liquid.	
<b>TSCA Inventory Listing</b>	
Components	CAS-No.
Distillates, petroleum, hydrotreated light	64742-47-8
<b>SARA 302 Status</b> SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
<b>SARA 311/312 Classification</b> "Fire hazard", "Immediate (acute) health hazard"	
<b>SARA 313 Chemical</b> SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.	
<b>US. EPA CERCLA Hazardous Substances (40 CFR 302)</b>	

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None	
<b>International Regulations</b>	
<b>WHMIS Classification</b>	
Class B, Division 3: Combustible liquid.	
<b>European Union</b>	
Classification according to Regulation (EU) 1272/2008.	
Aspiration hazard, Category 1	
Repeated exposure may cause skin dryness or cracking.	
<b>Australia. Inventory of Chemical Substances (AICS)</b> Listed	
<b>Japan. Inventory of Existing and New Chemical Substances (ENCS)</b> Listed	
<b>New Zealand. Inventory of Chemicals (NZIoC)</b> Listed	
<b>Switzerland. Inventory of Notified New Substances (CHINV)</b> Listed	
<b>Taiwan. National Existing Chemical Inventory (NECI)</b> Listed	
<b>Kaolin, calcined (92704-41-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on United States SARA Section 313	
<b>SARA Section 313 - Emission Reporting</b>	1.0 % (fibrous forms)
<b>Siloxanes and Silicones, di-Me (63148-62-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Glycerin (56-81-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### 15.2. US State Regulations

<b>Kaolin, calcined (92704-41-1)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Glycerin (56-81-5)</b>	
U.S. - Massachusetts - Right To Know List	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - Pennsylvania - RTK (Right to Know) List	

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 05/05/2015  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### Party Responsible for the Preparation of This Document

Ardex Laboratories, Inc. 2050 Byberry rd Philadelphia, PA 19116 T: 215-698-0500 ardexlabs.com

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*