

4293 High Def 1, 4294 High Def 2

Safety Data Sheet

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

Revision Date: 05/05/2015

Date of issue: 05/05/2015

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Name: 4293 High Def 1, 4294 High Def 2

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

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 H315

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) : H316 – Causes mild skin 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 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 |
| Aluminum oxide | (CAS No) 1344-28-1 | <20 | Not classified |

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| | | | |
|--------------------------------|---------------------|-----|----------------|
| 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, CO₂).

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.

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.

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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 ³) | 200 mg/m ³ (application restricted to conditions in which there are negligible aerosol exposures) |
| Aluminum oxide (1344-28-1) | | |
| Mexico | OEL TWA (mg/m ³) | 10 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) |
| Alberta | OEL TWA (mg/m ³) | 10 mg/m ³ |
| New Brunswick | OEL TWA (mg/m ³) | 10 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica) |
| Nunavut | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Nunavut | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Northwest Territories | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Northwest Territories | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Québec | VEMP (mg/m ³) | 10 mg/m ³ (containing no Asbestos and <1% Crystalline silica-total dust) |
| Saskatchewan | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Saskatchewan | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Yukon | OEL STEL (mg/m ³) | 20 mg/m ³ (Al ₂ O ₃) |
| Yukon | OEL TWA (mg/m ³) | 30 mppcf (Al ₂ O ₃) |
| Glycerin (56-81-5) | | |
| Mexico | OEL TWA (mg/m ³) | 10 mg/m ³ (mist) |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ (mist, total particulate) 5 mg/m ³ (mist, respirable fraction) |
| Alberta | OEL TWA (mg/m ³) | 10 mg/m ³ (mist) |
| British Columbia | OEL TWA (mg/m ³) | 10 mg/m ³ (mist) |
| New Brunswick | OEL TWA (mg/m ³) | 10 mg/m ³ (mist) |
| Nunavut | OEL STEL (mg/m ³) | 20 mg/m ³ (mist) |
| Nunavut | OEL TWA (mg/m ³) | 10 mg/m ³ (mist) |
| Northwest Territories | OEL STEL (mg/m ³) | 20 mg/m ³ (mist) |
| Northwest Territories | OEL TWA (mg/m ³) | 10 mg/m ³ (mist) |

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| | | |
|--------------|-------------------------------|-----------------------------|
| Ontario | OEL TWA (mg/m ³) | 10 mg/m ³ (mist) |
| Québec | VEMP (mg/m ³) | 10 mg/m ³ (mist) |
| Saskatchewan | OEL STEL (mg/m ³) | 20 mg/m ³ (mist) |
| Saskatchewan | OEL TWA (mg/m ³) | 10 mg/m ³ (mist) |
| Yukon | OEL TWA (mg/m ³) | 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 | : Opaque, Thick liquid, #4293: VERY SLIGHTLY BLUIISH Red; #4294: dark reddish LAVENDER |
| 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 | : 206.6 °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 |
| Viscosity, Dynamic | : 14000 cP |
| Explosion Data – Sensitivity to Mechanical Impact | : Not expected to present an explosion hazard due to mechanical impact |
| Explosion Data – Sensitivity to Static Discharge | : Not expected to present an explosion hazard due to static discharge |

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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, CO₂).

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:

| | |
|---|--|
| | |
| | |
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| LD50 Oral Rat | > 5000 mg/kg |
| LD50 Dermal Rabbit | > 2000 mg/kg |
| LC50 Inhalation Rat | > 5.2 mg/l/4h |
| Aluminum oxide (1344-28-1) | |
| LD50 Oral Rat | > 15900 mg/kg |
| LC50 Inhalation Rat | > 2.3 mg/l/4h |
| Glycerin (56-81-5) | |
| LD50 Oral Rat | 27.2 g/kg |
| LD50 Dermal Rabbit | > 10 g/kg |
| LC50 Inhalation Rat | > 570 mg/m ³ (Exposure time: 1 h) |
| Water (7732-18-5) | |
| 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.

| | |
|---|---|
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| 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. |
| Aluminum oxide (1344-28-1) | |
| LC50 Fish 1 | Not Established |
| EC50 Daphnia 1 | Not Established |
| ErC50 (algae) | Not Established |
| NOEC (acute) | Not Established |
| Glycerin (56-81-5) | |
| LC50 Fish 1 | Not Established |

12.2. Persistence and Degradability

| | |
|--|------------------|
| Siloxanes and Silicones, di-Me (63148-62-9) | |
| Persistence and Degradability | Not established. |

12.3. Bioaccumulative Potential

| | |
|---|----------------------|
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| BCF Fish 1 | 61 - 159 |
| Siloxanes and Silicones, di-Me (63148-62-9) | |
| Bioaccumulative Potential | Not established. |
| Glycerin (56-81-5) | |
| 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

| | |
|---|--|
| High Def 1, High Def 2 | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| Petroleum distillates, hydrotreated light (64742-47-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard |
| Aluminum oxide (1344-28-1) | |
| SARA Section 313 - Emission Reporting | 1.0 % (fibrous forms) |
| Siloxanes and Silicones, di-Me (63148-62-9) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

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| | |
|---|--|
| Glycerin (56-81-5) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| EPA TSCA Regulatory Flag | 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. |

| |
|---|
| Water (7732-18-5) |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

15.2. US State Regulations

| |
|--|
| Aluminum oxide (1344-28-1) |
| 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 |

| |
|---|
| Glycerin (56-81-5) |
| 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

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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.