



SECTION 1: Identification

1.1 Product identifier

Product name	Hyrogloss
Product number	4287

1.4 Supplier's details

Name	Ardex Labs.
Address	2050 Byberry Rd Philadelphia, PA 19116 United States of America

Telephone	2156980500
email	info@ardexlabs.com

1.5 Emergency phone number(s)

800-424-9300
CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE
NUMBER

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Acute toxicity, inhalation (chapter 3.1), Cat. 5
- Acute toxicity, oral (chapter 3.1), Cat. 5
- Eye damage/irritation (chapter 3.3), Cat. 2B
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 3

2.2 GHS label elements, including precautionary statements

Signal word

Warning

Hazard statement(s)

H303
H320
H333
H402

May be harmful if swallowed
Causes eye irritation
May be harmful if inhaled
Harmful to aquatic life

Precautionary statement(s)

P264
P273
P304+P312

Wash hands and exposed skin thoroughly after handling.
Avoid release to the environment.
IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P312

Call a POISON CENTER/doctor if you feel unwell.

P337+P313

If eye irritation persists: Get medical advice/attention.

P501

Dispose of contents/container to local, state, and federal regulations

2.3 Other hazards which do not result in classification

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Component	Concentration
Nonionic Surfactant (CAS no.: 9016-45-9)	< 4 %
CLASSIFICATIONS: Acute toxicity, oral (chapter 3.1), Cat. 4; Acute toxicity, inhalation (chapter 3.1), Cat. 4; Eye damage/irritation (chapter 3.3), Cat. 1. HAZARDS: H302+H332 - Harmful if swallowed or if inhaled; H318 - Causes serious eye damage.	
POLYDIMETHYLSILOXANES (CAS no.: 63148-62-9)	< 4 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
DMDM Hydantoin	< 1 %
CLASSIFICATIONS: Eye damage/irritation (chapter 3.3), Cat. 2A; Sensitization, skin (chapter 3.4), Cat. 1; Skin corrosion/irritation (chapter 3.2), Cat. 2; Acute toxicity, inhalation (chapter 3.1), Cat. 4. HAZARDS: No data available.	

Trade secret statement (OSHA 1910.1200(i))

The specific chemical identities of the ingredients in this mixture are considered to be trade secrets and are withheld in accordance with the provisions of 1910.1200 of the code of federal regulations

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice

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

If inhaled

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

In case of 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.

In case of eye contact

Rinse cautiously with large quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

If swallowed

Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Personal protective equipment for first-aid responders

See Section 8 for exposure and PPE recommendations

4.2 Most important symptoms/effects, acute and delayed

Inhalation: May cause respiratory irritation.

Skin Contact: May cause mild skin irritation (redness, dryness)

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 immediate medical attention and special treatment needed, if necessary

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

SECTION 5: Fire-fighting measures

5.1 Suitable 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 Specific hazards arising from the chemical

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 Special protective actions for fire-fighters

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).

Further information

See 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)

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

Emergency Procedures: Evacuate unnecessary 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.

6.3 Methods and materials 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.

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.

Specific end use(s)

Cleaning solution

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****CAS: (not specified)**

Poly(ethylene oxide)

10 mg/m³ TWA

8.2 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.

8.3 Individual protection measures, such as personal protective equipment (PPE)**Pictograms****Eye/face protection**

Chemical goggles or safety glasses.

Skin protection

Wear chemically resistant protective gloves.

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.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties**

Appearance/form (physical state, color, etc.)	Liquid, Turbid pink/orange
Odor	Floral-boquet
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	29 °F (-2 °C)
Initial boiling point and boiling range	175-265°F (79-129 °C)
Flash point	None
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	0.980-1.01 (@20 DEG. C)
Solubility(ies)	Miscible
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

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

Information on toxicological effects

Acute toxicity

Nonionic Surfactant: Acute oral toxicity

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

Typical for this family of materials.

LD₅₀, Rat, 960 - 3,980 mg/kg

Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Acute inhalation toxicity

Prolonged excessive exposure to mist may cause serious adverse effects, even death. Vapor may cause irritation of the upper respiratory tract (nose and throat).

Typical for this family of materials.

LC₅₀, Rat, 4 Hour, dust/mist, 1.15 mg/l

Typical for this family of materials.

LD₅₀, Rabbit, 2,000 - 2,991 mg/kg

POLYDIMETHYLSILOXANES: Acute oral toxicity : LD₅₀ (Rat): > 15,400 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD₅₀ (Rabbit): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Remarks: Based on data from similar materials

Skin corrosion/irritation

Nonionic Surfactant: Prolonged contact may cause slight skin irritation with local redness.

POLYDIMETHYLSILOXANES: Not classified based on available information.

Serious eye damage/irritation

Nonionic Surfactant: May cause severe eye irritation.

May cause severe corneal injury.

POLYDIMETHYLSILOXANES: Species: Rabbit
Result: No eye irritation
Remarks: Based on data from similar materials

Respiratory or skin sensitization

Nonionic Surfactant: For this family of materials:
Did not cause allergic skin reactions when tested in humans.
For respiratory sensitization:
No relevant data found.

POLYDIMETHYLSILOXANES: Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.
Test Type: Maximization Test (GPMT)
Species: Guinea pig
Remarks: Based on test data

Germ cell mutagenicity

Nonionic Surfactant: For this family of materials: In vitro genetic toxicity studies were negative.

POLYDIMETHYLSILOXANES: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on data from similar materials

Carcinogenicity

Nonionic Surfactant: For this family of materials: Did not cause cancer in laboratory animals.

POLYDIMETHYLSILOXANES: Not classified based on available information.
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials
Carcinogenicity - Assessment
: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Nonionic Surfactant: No relevant data found.



Teratogenicity

For this family of materials: Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals.

POLYDIMETHYLSILOXANES: Effects on fertility : Species: Rabbit, male

Application Route: Ingestion

Symptoms: No effects on fertility.

Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Prenatal development toxicity study (teratogenicity)

Species: Rabbit, female

Application Route: Skin contact

Symptoms: No effects on fetal development.

Remarks: Based on test data

Reproductive toxicity - Assessment

: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Summary of evaluation of the CMR properties

POLYDIMETHYLSILOXANES: IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

STOT-single exposure

Nonionic Surfactant: Evaluation of available data suggests that this material is not an STOT-SE toxicant.

POLYDIMETHYLSILOXANES: Not classified based on available information.

STOT-repeated exposure

Nonionic Surfactant: For this family of materials:

In animals, effects have been reported on the following organs:

Kidney.

Liver.

POLYDIMETHYLSILOXANES: Not classified based on available information.

Routes of exposure: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Routes of exposure: Skin contact

Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

Aspiration hazard

Nonionic Surfactant: Based on physical properties, not likely to be an aspiration hazard.

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

Nonionic Surfactant: Acute toxicity to fish

For this family of materials:

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

For this family of materials:

LC50, Pimephales promelas (fathead minnow), 96 Hour, 3.8 - 6.2 mg/l, OECD Test Guideline 203 or Equivalent

Acute toxicity to aquatic invertebrates

For this family of materials:

LC50, Daphnia magna (Water flea), 48 Hour, 9.3 - 21.4 mg/l, OECD Test Guideline 202 or Equivalent

Toxicity to bacteria

For this family of materials:

IC50, Bacteria, 16 Hour, > 1,000 mg/l

POLYDIMETHYLSILOXANES: Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 200 mg/l

Exposure time: 48 h

Persistence and degradability

Nonionic Surfactant: Biodegradability: For this family of materials: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Not applicable

Biodegradation: < 60 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Theoretical Oxygen Demand: 2.15 - 2.25 mg/mg



Chemical Oxygen Demand: 2.09 - 2.25 mg/mg

POLYDIMETHYLSILOXANES: No data available.

Bioaccumulative potential

Nonionic Surfactant: Partition coefficient: n-octanol/water(log Pow): 2.1 - 3.4 Calculated.
Bioconcentration factor (BCF): 5.9 - 48 Fish. Estimated.

POLYDIMETHYLSILOXANES: No data available.

Mobility in soil

Nonionic Surfactant: No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Dispose of product in accordance with local, state, and federal regulations.

Disposal of contaminated packaging

Dispose of as unused product.

Waste treatment

Dispose of only in accordance with local, state, and federal regulations.

Sewage disposal

Do not dispose of in sewers.

Other disposal recommendations

No data available.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods



IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Pennsylvania Right To Know Components

Dimethyl siloxane, trimethylsiloxy-terminated 63148-62-9 90 - 100 %

New Jersey Right To Know Components

Dimethyl siloxane, trimethylsiloxy-terminated 63148-62-9 90 - 100 %

SECTION 16: Other information

Revision Date:

08/01/2017

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.

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