

Section 1. Identification

| | |
|---|--|
| Product identifier | PolyWhey® 3500 Semi-gloss |
| Product type | Liquid |
| Other means of identification | |
| Synonyms | None |
| Product Code | - |
| Recommended use | No information available. |
| Recommended restrictions | No information available. |
| Manufacturer/Importer/Supplier/Distributor information | |
| Manufacturer/Supplier | Vermont Natural Coatings Box 512 Hardwick, VT 05843 United States |
| General Assistance | (802) 472-8700 |
| E-Mail | info@vermontnaturalcoatings.com |
| Contact Person | No information available. |
| Emergency Telephone | (802) 472-8700 |

Section 2. Hazard(s) Identification

| | |
|---|---|
| OSHA/HCS status | This material is not considered as 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 | Not applicable. |
| Signal word | Not applicable. |
| Hazard statement | Not applicable. |
| Precautionary statement | Not applicable. |
| Hazard(s) not otherwise classified | None known. |

SAFETY DATA SHEET

Section 3. Composition/information on ingredients

Mixture

| <u>Chemical name</u> | <u>CAS number</u> | <u>%</u> |
|--------------------------------------|-------------------|----------|
| Silicon dioxide, chemically prepared | 112926-00-8 | >1 - <3 |
| Dipropylene glycol n-butylether | 29911-28-2 | ≥1 - <3 |
| Zinc oxide (ZnO) | 1314-13-2 | ≥0.1- <1 |
| 1,2-Propylene glycol | 57-55-6 | ≥0.1- <1 |

Section 4. First-aid measures

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| Inhalation | Remove to fresh air. Administer oxygen if necessary. Seek immediate medical attention. |
| Skin contact | Wash thoroughly with soap and water. If irritation persists, get medical attention. |
| Eye contact | Flush with large quantities of water for at least 15 minutes. Seek immediate medical attention. |
| Ingestion | Do not induce vomiting. Drink 1 or 2 glasses of water to dilute. Obtain medical attention immediately. |
| Most important symptoms/effects, acute and delayed | No known significant effects or critical hazards. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. In case of shortness of breath, give oxygen. Keep victim warm. |
| General information | If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. |

Section 5. Fire-fighting measures

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| Suitable extinguishing media | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | Closed containers may explode when exposed to extreme heat or fire. Decomposition of burning material may cause toxic gases to form, which may include carbon dioxide and carbon monoxide. |
| Special protective equipment and Special firefighting procedures | Self contained breathing apparatus and full protective clothing must be worn in case of fire. |

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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: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). 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

Put on appropriate personal protective equipment (See Section 8).

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.

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Section 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

| Components | Type | Value |
|--------------------------------------|----------|--|
| Silicon dioxide, chemically prepared | PEL(TWA) | 80 mg/m ³ |
| Zinc oxide (ZnO) | PEL(TWA) | 5 mg/m ³ (fume) 15 mg/m ³ (total dust) 5 mg/m ³ (resp dust) |

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value |
|--------------------------------------|------|---|
| Silicon dioxide, chemically prepared | TWA | 80 mg/m ³ |
| Zinc oxide (ZnO) | TWA | 5 mg/m ³ (fume) 15 mg/m ³ (total dust) 5 mg/m ³ (resp) |

US. OSHA Table Z-2 (29 CFR 1910.1000)

None of the components in this product is listed.

US. OSHA Table Z-3 (29 CFR 1910.1000)

None of the components in this product is listed.

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|--------------------------------------|---------------------|---|
| Silicon dioxide, chemically prepared | TLV(TWA) | 80 mg/m ³ |
| Zinc oxide (ZnO) | TLV(TWA) TLV(ST) | 2 mg/m ³ 10 mg/m ³ |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|--------------------------------------|--------------------------|---|
| Silicon dioxide, chemically prepared | REL(TWA) | 6 mg/m ³ |
| Zinc oxide (ZnO) | REL(TWA) REL(Ceiling) | 5 mg/m ³ 15 mg/m ³ |

Protective Equipment



Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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Individual protection measures, such as personal protective equipment

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. > 8 hours (breakthrough time): nitrile rubber

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

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

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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 showers are close to the workstation location.

Section 9. Physical and chemical properties

Appearance

Milky liquid.

Physical state

Liquid.

Form

Liquid.

Color

Milky.

Odor

Slight odor.

Odor threshold

No information available.

pH

No information available.

Melting point

No information available.

Freezing point

No information available.

Initial boiling point and boiling range

212 °F

Flash point

None.

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| % Volatile by Volume | No information available. |
| Evaporation rate (BuOAc=1) | Slower than ether. |
| Material Volatile Organic Compound (V.O.C.) | 0.09 lbs/gal max (35 g/L max) |
| Coating Volatile Organic Compound (V.O.C.) | 0.21 lbs/gal max (95 g/L max) |
| Flammability (solid, liquid, gas) | None. |
| Upper/lower flammability or explosive limits | |
| Flammability limit – lower (%) | Not applicable. |
| Flammability limit – upper (%) | Not applicable. |
| Explosive limit - lower (%) | No information available. |
| Explosive limit - upper (%) | No information available. |
| Vapor pressure (mm Hg) | < 1 mm Hg |
| Vapor density (Air=1) | Heavier than air. |
| Relative density (Specific gravity) | 1.0 |
| Solubility(ies) | |
| Solubility (water) | Dilatable. |
| Solubility (other) | No information available. |
| Partition coefficient (n-octanol/water) | No information available. |
| Auto-ignition temperature | None. |
| Decomposition temperature | No information available. |
| Viscosity | No information available. |

Section 10. Stability and reactivity

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|---|---|
| Reactivity | Product is stable. |
| Chemical stability | Stable under recommended handling and storage conditions. |
| Possibility of hazardous reactions | Hazardous polymerization will not occur. |
| Conditions to avoid | Elevated temperatures. Contact with oxidizing agent. |
| Incompatible materials | Oxidizers, acids and bases. |
| Hazardous decomposition Products | Burning or decomposing film may give off carbon dioxide and or carbon monoxide. |

Section 11. Toxicological information

Information on the likely routes of exposure

| | |
|--|---|
| Ingestion | No specific data. |
| Inhalation | No specific data. |
| Skin contact | No specific data. |
| Eye contact | No specific data. |
| Symptoms related to the physical, chemical and toxicological characteristics | No specific data. |
| Delayed and immediate effects and also chronic effects from short- and long-term exposure | No known significant effects or critical hazards. |

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|---|---|
| Skin corrosion/irritation | No information available. |
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | No information available. |
| Skin sensitization | No information available. |
| Germ cell mutagenicity | No known significant effects or critical hazards. |
| Carcinogenicity | No known significant effects or critical hazards. |
| Reproductive toxicity | No known significant effects or critical hazards. |
| Specific target organ toxicity - single exposure | No information available. |
| Specific target organ toxicity - repeated exposure | No information available. |
| Aspiration hazard | No information available. |

Section 12. Ecological information

Numerical measures of toxicity

| Components | Test | Species | Test Results |
|---|-------------------------------|--|---------------------|
| Silicon dioxide, chemically prepared (CAS 112926-00-8) | Fish LC ₅₀ | Zebra fish <i>(Brachydanio rerio)</i> | >1000 mg/l, 96h |
| | Crustacea EC ₅₀ | Water flea <i>(Daphnia magna)</i> | >1000 mg/l, 24h |
| Dipropylene glycol n-butylether (CAS 29911-28-2) | Fish LC ₅₀ | Guppy fish <i>(Poecilia reticulata)</i> | 841 mg/l, 96h |
| | Crustacea EC ₅₀ | Water flea <i>(Daphnia magna)</i> | >1000 mg/l, 48h |
| | Algae EC ₅₀ | Green algae <i>(Selenastrum capricornutum)</i> | 33.65 mg/l, 96h |
| Zinc oxide (ZnO) (CAS 1314-13-2) | Fish LC ₅₀ | Fathead minnow <i>(Pimephales Promelas)</i> | 2,246 mg/l, 96h |
| | Crustacea EC ₅₀ | Water flea <i>(Daphnia magna)</i> | 24.6 mg/l, 48h |
| 1,2-Propylene glycol (CAS 57-55-6) | Fish LC ₅₀ | Rainbow trout <i>(Oncorhynchus mykiss)</i> | 40613mg/l, 96h |
| | Crustacea NOEC | Water flea <i>(Ceriodaphnia sp.)</i> | 13020 mg/l, 7d |
| | Algae NOEC | Green algae <i>(Pseudokirchnerella subcapitata)</i> | 15000 mg/l, 14d |
| | | | |

| | |
|--------------------------------------|---------------------------|
| Persistence and degradability | No information available. |
| Bioaccumulative potential | No information available. |
| Mobility in soil | No information available. |
| Other adverse effects | No information available. |

Section 13. Disposal considerations

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Disposal instructions

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with Federal, State and Local regulations. 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.

Section 14. Transport information

| | |
|-------------------------|------------------------------|
| In accordance with DOT | Not regulated for transport. |
| In accordance with IMDG | Not regulated for transport. |
| In accordance with IATA | Not regulated for transport. |

Section 15. Regulatory information

US federal regulations

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None of the chemicals in this product is listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Silicon dioxide, chemically prepared (CAS 112926-00-8) Listed

Zinc oxide (ZnO) (CAS 1314-13-2) Listed

CERCLA Hazardous Substance List (40 CFR 302.4)

None of the chemicals in this product is listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

| | | | |
|--------------------------|-------------------|---|----|
| Hazard categories | Immediate Hazard | - | No |
| | Delayed Hazard | - | No |
| | Fire Hazard | - | No |
| | Pressure Hazard | - | No |
| | Reactivity Hazard | - | No |

SARA 302/304 Extremely hazardous substance

None of the chemicals in this product is listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

None of the chemicals in this product is listed.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

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None of the chemicals in this product is listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None of the chemicals in this product is listed.

Safe Drinking Water Act (SDWA)

None of the chemicals in this product is listed.

US State regulations

US. New Jersey Worker and Community Right-to-Know Act

Silicon dioxide, chemically prepared (CAS 112926-00-8)

Zinc oxide (ZnO) (CAS 1314-13-2)

1,2-Propylene glycol (CAS 57-55-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Zinc oxide (ZnO) (CAS 1314-13-2)

1,2-Propylene glycol (CAS 57-55-6)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):

None of the chemicals in this product is listed.

International Inventories

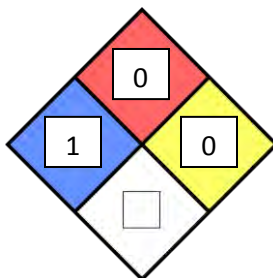
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non- Domestic Substances List (NDSL) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16. Other information, including date of preparation or last revision

| | |
|---------------|------------|
| Issue date | 06-24-2008 |
| Revision date | 01-07-2016 |
| Version # | 01 |
| NFPA rating | |



Key to abbreviations

ACGIH: Documentation of the Threshold Limit Values and Biological Exposure indices

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GHS : Globally Harmonized System of Classification and Labelling of Chemicals

IATA :International Air Transport Association

IMDG : International Maritime Dangerous Goods

NIOSH: The National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

Disclaimer

The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations. All materials may present unknown hazards and should be used with caution.