# VERMØNT NATURAL COATINGS<sup>®</sup> Revised Date: 01-14-2016

# SAFETY DATA SHEET

POLYWHEY<sup>®</sup> EZ-PRO

Supersedes: 02-01-2010

#### 1. Identification

Product identifier	PolyWhey <sup>®</sup> EZ-PRO
Product type	Liquid
Other means of identification	
Synonyms	None
Product Code	-
Recommended use	No information available. No
Recommended restrictions	information available.
Manufacturer/Importer/Supplier/Dist	ributor 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
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.
Physical hazards	Not classified
Health hazards	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.

### 3. Composition/information on ingredients

Mixture		
Chemical name	CAS number	<u>%</u>
Dipropylene glycol n-butylether	29911-28-2	>1 - <u>&lt;</u> 3
1,2-Propylene glycol	57-55-6	>1 - <u>&lt;</u> 3
Silicon dioxide, chemically prepared	112926-00-8	>0.5 - <2
Triethyl amine	121-44-8	>0.1 - <2
Zinc oxide (ZnO)	1314-13-2	>0.1 - <2

### 4. First-aid measures

Inhalation Skin contact Eye contact Ingestion	Remove to fresh air. Administer oxygen if necessary. Seek immediate medical attention. Wash thoroughly with soap and water. If irritation persists, get medical attention. Flush with large quantities of water for at least 15 minutes. Seek immediate medical attention. 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.

### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the chemical	Use an extinguishing agent suitable for the surrounding fire. None known. 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.

### 6. Accidental release measures

Personal precautions, protective	For non-emergency personnel: No action shall be taken
equipment and emergency	involving any personal risk or without suitable training.
procedures	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	Small spill: Stop leak if without risk. Move containers from spill
containment and cleaning up	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.

## 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.

### 8. Exposure controls/personal protection

**Occupational exposure limits** 

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

Components	Туре	Value
Silicon dioxide, chemically prepared	PEL(TWA)	80 mg/m <sup>3</sup>
Triethyl amine	PEL(TWA)	25 ppm (100 mg/m <sup>3</sup> )
Zinc oxide (ZnO)	PEL(TWA)	5 mg/m <sup>3</sup> (fume)
		15 mg/m <sup>3</sup> (total dust)

15 mg/m<sup>°</sup> (total dust) 5 mg/m<sup>3</sup> (resp dust)

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

Components	Туре	Value
Silicon dioxide, chemically	TWA	80 mg/m <sup>3</sup>
prepared		
Triethyl amine	TWA	25 ppm (100 mg/m <sup>3</sup> )
Zinc oxide (ZnO)	TWA	5 mg/m <sup>3</sup> (fume)
		15 mg/m <sup>3</sup> (total dust)
		5 mg/m <sup>3</sup> (resp dust)

#### 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	Туре	Value
Silicon dioxide, chemically	TLV(TWA)	80 mg/m <sup>3</sup>
prepared		
Triethyl amine	TLV(TWA)	0.5 ppm
	TLV(ST)	1 ppm
Zinc oxide (ZnO)	TLV(TWA)	$2 \text{ mg/m}^3$
	TLV(ST)	$10 \text{ mg/m}^3$

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Туре	Value
Silicon dioxide, chemically	REL(TWA)	6 mg/m <sup>3</sup>
prepared		
Triethyl amine	REL(TWA)	10 ppm
	REL (STEL)	15 ppm
Zinc oxide (ZnO)	REL(TWA)	5 mg/m <sup>3</sup>
	REL(Ceiling)	15 mg/m <sup>3</sup>

**Protective Equipment** 



**Appropriate engineering controls** Good general ventilation should be sufficient to control worker exposure to airborne contaminants. 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 Chemical-resistant, impervious gloves complying with an Hand protection 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 Personal protective equipment for the body should be selected **Body protection** 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.

#### 9. Physical and chemical properties

Appearance	Milky liquid.
Physical state	Liquid.
Form	Liquid.
Color	Milky.

Odor	Slight odor.	
Odor threshold	No information available.	
рН	No information available.	
Melting point	No information available.	
Freezing point	No information available.	
Initial boiling point and boiling range	212 °F	
Flash point	None.	
% Volatile by Volume	No information available.	
Evaporation rate (BuOAc=1)	Slower than ether.	
Material Volatile Organic Compound	No information available.	
(V.O.C.)		
Coating Volatile Organic Compound	210 g/L (maximum)	
(V.O.C)		
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)	1.02	
Solubility(ies)		
Solubility (water)	Dilutable.	
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.	

### 10. Stability and reactivity

Product is stable.
Stable under recommended handling and storage conditions.
Hazardous polymerization will not occur.
Elevated temperatures. Contact with oxidizing agent.
Oxidizers, acids and bases.
Burning or decomposing film may give off carbon dioxide and or carbon monoxide.

### 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.		
Numerical measures of toxicity Components Dipropylene glycol n-butylether (CAS 29911-28-2)	Test Oral $LD_{50}$ Dermal $LD_{50}$ Inhalation $LC_{50}$	<b>Species</b> Rat Rabbit Rat	<b>Test Results</b> 1477 mg/kg 5350 mg/kg >2.04 mg/l, 4h
1,2-Propylene glycol (CAS 57-55-6) Silicon dioxide, chemically prepared	Oral LD <sub>50</sub> Dermal LD <sub>50</sub> Oral LD <sub>50</sub> Dermal LD	Rat Rabbit Rat Rabbit	22000 mg/kg >2000 mg/kg >5000 mg/kg
(CAS 112926-00-8) Triethyl amine (CAS 121-44-8)	Inhalation $LC_{50}$ Oral $LD_{50}$ Dermal $LD_{50}$	Rat Rat Rabbit Rat	23000 mg/kg 0.69 mg/l , 4h 730 mg/kg 580 mg/kg 7.1 mg/l 4h
Zinc oxide (CAS 1314-13-2)	Oral $LD_{50}$ Dermal $LD_{50}$	Rat Rat Rabbit	>8437 mg/kg >5000 mg/kg
Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization	No information availa No information availa	able. able.	
Respiratory sensitization Skin sensitization	No information available. No information available. No known significant offects or critical bazards.		
Carcinogenicity Reproductive toxicity	No known significant effects or critical hazards. No known significant effects or critical hazards. No information available		
single exposure Specific target organ toxicity - repeated exposure	Causes damage to kidney, spleen, and blood through		
Aspiration hazard	No information availa	able.	

## 12. Ecological information

Numerical measures of to:	xicity		
Components	Test	Species	Test Results
Dipropylene glycol n-	Fish LC <sub>50</sub>	Guppy fish	841 mg/l, 96h
butylether		(Poecilia reticulata)	
(CAS 29911-28-2)	Crustacea	Water flea	>1000 mg/l, 48h
	EC <sub>50</sub>	(Daphnia magna)	
	Algae EC <sub>50</sub>	Green algae	33.65 mg/l, 96h
		(Selenastrum capricornutum)	

1,2-Propylene glycol	Fish $LC_{50}$	Rainbow trout	40613mg/l, 96h
(CAS 57-55-0)	Crustacea	(Oncomynends mykiss) Water flea	13020 mg/l. 7d
	NOEC	(Ceriodaphnia sp.)	10020 116/1) / 4
	Algae	Green algae	15000 mg/l, 14d
	NOEC	(Pseudokirchnerella subcapitata)	
Silicon dioxide, chemically	Fish $LC_{50}$	Zebra fish	>1000 mg/l, 96h
prepared		(Brachydanio rerio )	
(CAS 112926-00-8)	Crustacea	Water flea	>1000 mg/l, 24h
	EC <sub>50</sub>	(Daphnia magna)	
Triethyl amine	Fish LC <sub>50</sub>	Orange-red killifish	24 mg/l, 96h
(CAS 121-44-8)		(Oryzias latipes)	
	Crustacea	Water flea	17 mg/l, 48h
		( Daphnia dubia)	9 m a / 1 - 7 2 h
	Algae EC <sub>50</sub>	Green algae (Pseudokirchnerella subcanitata)	8 mg/1, 72n
Zinc ovide (ZnO)	Fish I C	(FSeudokii cimerend Subcupitutu)	2 246 mg/L 96h
(CAS 1314-13-2)	11311 2050	(Pimenhales Promelas)	2,240 mg/1, 50m
(0, 10 10 1 10 2)	Crustacea	Water flea	24.6 mg/l. 48h
	EC <sub>50</sub>	(Daphnia magna)	
Bioaccumulative potential Mobility in soil Other adverse effects	y No No No	information available. information available. information available.	
13. Disposal considerations			
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.			
14. Transport information			
In accordance with DOT In accordance with IMDG In accordance with IATA	No No	t regulated for transport. t regulated for transport. t regulated for transport.	
15. Regulatory information			

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US federal regulations	This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
TSCA Section 12(b) Export Notificat None of the chemicals in this	All components are on the U.S. EPA TSCA Inventory List. on (40 CFR 707, Subpt. D) product is listed.	
US. OSHA Specifically Regulated Sul Silicon dioxide, chemically pre (CAS 112926-00-8)	pared Listed	
Triethyl amine (CAS 121-44-8) Zinc oxide (ZnO) (CAS 1314-13	Listed	
CERCLA Hazardous Substance List (4	0 CFR 302.4)	
Triethyl amine (CAS 121-44-8)	Listed	
Hazard categories	Immediate Hazard - No	
Thazard Categories	Delayed Hazard - No	
	Fire Hazard - No	
	Pressure 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)	CAS number % hund	
Triethyl amine	121-44-8 >0.1 - <1	
Other federal regulations Clean Air Act (CAA) Section 12 Triethyl amine (CAS 121-44-8) Clean Air Act (CAA) Section 12 None of the chemicals in this Safe Drinking Water Act (SDW Triethyl amine (CAS 121-44-8)	L2 Hazardous Air Pollutants (HAPs) List L2(r) Accidental Release Prevention (40 CFR 68.130) product is listed. VA)	
US State regulations US. New Jersey Worker and Community Right-to-Know Act 1,2-Propylene glycol (CAS 57-55-6) Silicon dioxide, chemically prepared(CAS 112926-00-8) Triethyl amine (CAS 121-44-8) Zinc oxide (ZnO) (CAS 1314-13-2) US. Pennsylvania Worker and Community Right-to-Know Law 1,2-Propylene glycol (CAS 57-55-6) Triethyl amine (CAS 121-44-8) Zinc oxide (ZnO) (CAS 1314-13-2) US. California Proposition 65 US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): None of the chemicals in this product is listed.		

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

\*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).

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

Issue date Revision date Version # NFPA rating	01-10-2014 01-14-2016
Key to abbreviations	ACGIH: Documentation of the Threshold Limit Values and Biological Exposure indices 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
Disclaimor	

#### 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.