

Safety Data Sheet

VERTIWRAP NPL LT

Safety Data Sheet dated: 09/09/2024 - version 1

Date of first edition: 09/09/2024

1: Identification

Product identifier

Mixture identification:

Trade name: VERTIWRAP NPL LT

Trade code: PLY0148

Recommended use and restrictions on use

Recommended use: Liquid membrane based on synthetic polymers water dispersion

Restrictions on use: Not available

Supplier's details

Company: Polyglass U.S.A. Inc.

1111 West Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 866-222-9782

Responsible: RDProductSafety@mapei.com

Emergency phone number

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. Hazard identification



Classification of the product

Reproductive toxicity, Category 2

Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific target organ toxicity following single exposure, Category 1

Causes damage to organs if inhaled, in contact with skin and if swallowed.

Label elements

Hazard pictograms and Signal Word



Danger

Hazard statements

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H370 Causes damage to organs if inhaled, in contact with skin and if swallowed.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P311 IF exposed or concerned: Call a doctor.

P501 Dispose of contents/container in accordance with applicable regulations.

Other hazards

None

Ingredient(s) with unknown acute toxicity

None

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of

the hardened product may create a dust hazard)

3. Composition/information on ingredients

Substances

Not Relevant

Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
1-2.5 %	methyl alcohol; Methanol	CAS:67-56-1 EC:200-659-6 Index:603-001-00-X	Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 3, H301; Acute Tox. 3, H331; Acute Tox. 3, H311	01-2119433307-44-XXXX
1-2.5 %	titanium dioxide; Dioxotitanium	CAS:13463-67-7 EC:236-675-5 Index:022-006-00-2	Carc. 2, H351	01-2119489379-17-XXXX
0.1-0.25 %	phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene;	CAS:68610-51-5 EC:271-867-2	Aquatic Chronic 4, H413; Repr. 2, H361	

The actual concentration of the components listed above is withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

Not available

Indication of immediate medical attention and special treatment needed, if necessary

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

5. Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the hazardous product

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove persons to safety.
- Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
- Limit leakages with earth or sand.

Methods and material for containment and cleaning up

- Suitable material for taking up: absorbing material, organic, sand
 - Retain contaminated washing water and dispose it.
-

7. Handling and storage

Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Exercise the greatest care when handling or opening the container.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- Wash skin thoroughly after handling.
- See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

- Store above freezing
- Keep away from food, drink and feed.

Incompatible materials:

- None in particular.

Instructions as regards storage premises:

- Adequately ventilated premises.

Storage temperature: Not available

8. Exposure controls/personal protection

Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
methyl alcohol; Methanol CAS: 67-56-1	EU		Long Term: 260 mg/m ³ - 200 ppm Skin
	ACGIH		Long Term: 200 ppm; Short Term: 250 ppm Skin, BEI - Headache, eye dam, dizziness, nausea
	MAK	GERMANY	Long Term: 130 mg/m ³ - 100 ppm
	OSHA		Long Term: 260 mg/m ³ - 200 ppm
	ACGIH		Long Term: 200 ppm; Short Term: 250 ppm Skin - potential significant contribution to overall exposure by the cutaneous route;eye damage;headache;dizziness;nausea
	EU		Long Term: 260 mg/m ³ - 200 ppm Behaviour Indicative Possibility of significant uptake through the skin
titanium dioxide; Dioxotitanium CAS: 13463-67-7	MAK	AUSTRIA	Long Term: 260 mg/m ³ - 200 ppm; Short Term: 1040 mg/m ³ - 800 ppm
	MAK	SWITZERLAN D	Long Term: 260 mg/m ³ - 200 ppm
	ACGIH		Long Term: 10 mg/m ³ A4 - LRT irr
	MAK	GERMANY	Long Term: 0.3 mg/m ³
	OSHA		Long Term: 15 mg/m ³
	ACGIH		Long Term: 10 mg/m ³ A4 - Not Classifiable as a Human Carcinogen;lower respiratory tract irritation
	MAK	AUSTRIA	Long Term: 5 mg/m ³ ; Short Term: 10 mg/m ³

Biological limit values

methyl alcohol; Methanol Biological Indicator: Methyl alcohol; Sampling Period: End of turn
CAS: 67-56-1 Value: 15 mg/L; Medium: Urine
Remark: Background; Not Specific

Predicted No Effect Concentration (PNEC) values

methyl alcohol; Methanol Exposure Route: Fresh Water; PNEC Limit: 154 mg/l
CAS: 67-56-1

Exposure Route: Marine water; PNEC Limit: 15.4 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 570.4 mg/kg
Exposure Route: Soil; PNEC Limit: 23.5 mg/kg
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l
Exposure Route: Intermittent release; PNEC Limit: 1540 mg/l
Exposure Route: Fresh Water; PNEC Limit: 0.184 mg/l

titanium dioxide;
Dioxotitanium
CAS: 13463-67-7

Exposure Route: Soil; PNEC Limit: 100 mg/kg
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l
Exposure Route: Marine water; PNEC Limit: 0.0184 mg/l
Exposure Route: Marine water sediments; PNEC Limit: 100 mg/kg
Exposure Route: Freshwater sediments; PNEC Limit: 1000 mg/kg
Exposure Route: Intermittent release; PNEC Limit: 0.193 mg/l

Derived No Effect Level (DNEL) values

methyl alcohol; Methanol Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
CAS: 67-56-1 Worker Industry: 40 mg/kg; Consumer: 8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 260 mg/m³; Consumer: 50 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 260 mg/m³; Consumer: 50 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 40 mg/kg; Consumer: 8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 260 mg/m³; Consumer: 50 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 260 mg/m³; Consumer: 50 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 8 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 8 mg/kg

titanium dioxide;
Dioxotitanium
CAS: 13463-67-7

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 0.17 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Consumer: 0.028 mg/m³

Appropriate engineering controls

Not available

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: viscous liquid black or grey

Odour: latex like

Odour threshold: Not Relevant

pH: 9.00

Melting point / freezing point: Not Relevant

Initial boiling point and boiling range: Not Relevant

Flash point: 100 °C (212 °F)

Evaporation rate: Not Relevant

Upper/lower flammability or explosive limits: Not Relevant

Vapour density: Not Relevant

Vapour pressure: Not Relevant

Relative density: Not Relevant

Solubility in water: Not Relevant

Solubility in oil: Not Relevant

Partition coefficient (n-octanol/water): Not Relevant

Auto-ignition temperature: Not Relevant

Decomposition temperature: Not Relevant

Viscosity: Not Relevant

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

Solid/gas flammability: Not Relevant

Other information

Substance Groups relevant properties Not Relevant

Miscibility: Not Relevant

Fat Solubility: Not Relevant

Conductivity: Not Relevant

10. Stability and reactivity

Reactivity

Stable

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. Toxicological information

Information on toxicological effects

Likely routes of exposure:

Skin contact, skin absorption, eye contact, inhalation and ingestion.

Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	The product is classified: Reproductive toxicity, Category 2(H361)
h) STOT-single exposure	The product is classified: Specific target organ toxicity following single exposure, Category 1(H370)
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

methyl alcohol; Methanol a) acute toxicity LD50 Skin Rabbit > 17100 mg/kg

titanium dioxide; Dioxititanium a) acute toxicity LD50 Oral Rat > 5000 mg/kg
LD50 Skin Rat > 2000 mg/m3
LC50 Inhalation Dust Rat > 6.82 mg/l 4h
LD50 Skin Rabbit > 10000 mg/kg

phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene; a) acute toxicity LD50 Skin Rabbit > 5010 mg/kg
LC50 Inhalation Rat > 165 mg/l 1h
LD50 Oral Rat > 2000 mg/kg

Substance(s) listed on the IARC Monographs:

titanium dioxide; Dioxititanium Group 2B

Substance(s) listed as OSHA Carcinogen(s):

titanium dioxide; Dioxititanium

Substance(s) listed as NIOSH Carcinogen(s):

titanium dioxide; Dioxititanium

Substance(s) listed on the NTP report on Carcinogens:

None

12. Ecological information

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
methyl alcohol; Methanol	CAS: 67-56-1 - EINECS: 200- 659-6 - INDEX: 603-001-00-X	a) Aquatic acute toxicity : LC50 Fish 15400 mg/L 96h

		b) Aquatic chronic toxicity : NOEC Fish = 450 mg/L
titanium dioxide; Dioxotitanium	CAS: 13463-67-7 - EINECS: 236-675-5 - INDEX: 022-006-00-2	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96
		a) Aquatic acute toxicity : EC50 Algae = 16 mg/L 72
		a) Aquatic acute toxicity : NOEC Algae = 5600 mg/L 72
		a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48
phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene;	CAS: 68610-51-5 - EINECS: 271-867-2	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss > 0.2 mg/L 96h IUCLID
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 0.2 mg/L 48h IUCLID
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata > 0.2 mg/L 72h IUCLID

Persistence and degradability

Component	Persistence/Degradability:
methyl alcohol; Methanol	Readily biodegradable

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. Disposal considerations

Safe handling and methods for disposal

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

UN number

TDG-UN number: Not Applicable

ADR-UN number: Not Applicable

DOT-UN Number: Not Applicable

IATA-Un number: Not Applicable

IMDG-Un number: Not Applicable

UN proper shipping name

TDG-Shipping Name: Not Applicable

ADR-Shipping Name: Not Applicable

DOT-Proper Shipping Name: Not Applicable

IATA-Technical name: Not Applicable
IMDG-Technical name: Not Applicable

Transport hazard class(es)

TDG-Class: Not Applicable
ADR-Class: Not Applicable
DOT-Hazard Class: Not Applicable
IATA-Class: Not Applicable
IMDG-Class: Not Applicable

Packing group

TDG-Packing Group: Not Applicable
ADR-Packing Group: Not Applicable
DOT Packing Group: Not Applicable
IATA-Packing group: Not Applicable
IMDG-Packing group: Not Applicable

Environmental hazards

Marine pollutant: No
Environmental Pollutant: Not Applicable
DOT-RQ: Yes DOT-RQ - Quantity: 5000 lbs

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

Not Applicable

Special precautions in connection with transport or conveyance

TDG:
 Not Applicable
Department of Transportation (DOT):
 Not Applicable
Road and Rail (ADR-RID) :
 Not Applicable
Air (IATA) :
 Not Applicable
Sea (IMDG) :
 Not Applicable

15. Regulatory information

Canada - Federal regulations

DSL - Domestic Substances List

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

This product complies with NDSL inventory

NPRI - National Pollutant Release Inventory

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

TSCA listed substances:

methyl alcohol; Methanol is listed in TSCA Section 8b
titanium dioxide; Dioxotitanium is listed in TSCA Section 8b
phenol, 4-methyl-, reaction is listed in TSCA Section 8b
products with dicyclopentadiene
and isobutylene;

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

methyl alcohol; Methanol

Section 313 - Toxic chemical list:

methyl alcohol; Methanol

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

methyl alcohol; Methanol

Reportable quantity:

5000

pounds

CAA - Clean Air Act

CAA listed substances:

methyl alcohol; Methanol

is listed in CAA Section 112(b) - HAP Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

methyl alcohol; Methanol

Listed as reproductive toxicant

titanium dioxide; Dioxotitanium

Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

methyl alcohol; Methanol

titanium dioxide; Dioxotitanium

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

methyl alcohol; Methanol

titanium dioxide; Dioxotitanium

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

methyl alcohol; Methanol

titanium dioxide; Dioxotitanium

16. Other information

Safety Data Sheet dated: 9/9/2024 - version 1

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Code	Description
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs.
H413	May cause long lasting harmful effects to aquatic life.

Code	Hazard class and hazard category	Description
A.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
A.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
A.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3
A.6/2	Carc. 2	Carcinogenicity, Category 2
A.7/2	Repr. 2	Reproductive toxicity, Category 2
A.8/1	STOT SE 1	Specific target organ toxicity following single exposure, Category 1
B.6/2	Flam. Liq. 2	Flammable Liquids — Category 2
CAN-HAE/C4	Aquatic Chronic 4	Chronic (long-term) aquatic hazard - Category 4

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
CLP: Classification, Labeling, Packaging.
EINECS: European Inventory of Existing Commercial Chemical Substances.
INCI: International Nomenclature of Cosmetic Ingredients.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
GefStoffVO: Ordinance on Hazardous Substances, Germany.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
WGK: German Water Hazard Class.
KSt: Explosion coefficient.