Safety Data Sheet dated: 08/16/2024 - version 1 Date of first edition: 08/16/2024



### 1: Identification

Product identifier Mixture identification:

> Trade name: POLYBRITE 73 Trade code: 906PB73

# Recommended use and restrictions on use

Recommended use: Coating

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**

Acute (short-term) aquatic hazard - Category 3 Chronic (long-term) aquatic hazard - Category 3 Harmful to aquatic life Harmful to aquatic life with long lasting effects.

#### Label elements

#### Hazard statements

H402 Harmful to aquatic life

H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P501	Dispose of contents/container in accordance with applicable regulations.

#### Other hazards

None

# Ingredient(s) with unknown acute toxicity

None

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. 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 silica dust hazard)

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
5-10 %	titanium dioxide; Dioxotitanium	CAS:13463-67-7 EC:236-675-5 Index:022-006- 00-2	Carc. 2, H351	01-2119489379-17-XXXX
1-2.5 %	zinc oxide; oxozinc	CAS:1314-13-2 EC:215-222-5 Index:030-013- 00-7	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	01-2119463881-32-xxxx
0.25-0.49 %	silica sand; quartz	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372; Carc. 1A, H350	

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:

Wash with plenty of water and soap.

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

Treatment: Not available

(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.

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
titanium dioxide; Dioxotitanium CAS: 13463-67-7	ACGIH		Long Term: 10 mg/m3 A4 - LRT irr
	MAK	GERMANY	Long Term: 0.3 mg/m3
	OSHA		Long Term: 15 mg/m3
	ACGIH		Long Term: 10 mg/m3 A4 - Not Classifiable as a Human Carcinogen;lower respiratory tract irritation
	MAK	AUSTRIA	Long Term: 5 mg/m3; Short Term: 10 mg/m3
	MAK	SWITZERLAN D	Long Term: 3 mg/m3
zinc oxide; oxozinc CAS: 1314-13-2	ACGIH		Long Term: 2 mg/m3; Short Term: 10 mg/m3 (R) - Metal fume fever
	OSHA		Long Term: 5 mg/m3
	OSHA		Long Term: 15 mg/m3
	ACGIH		Long Term: 2 mg/m3; Short Term: 10 mg/m3 metal fume fever
	MAK	AUSTRIA	Long Term: 5 mg/m3
	MAK	SWITZERLAN D	Long Term: 3 mg/m3
silica sand; quartz CAS: 14808-60-7	ACGIH		Long Term: 0.025 mg/m3 A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	МАК	AUSTRIA	Long Term: 0.15 mg/m3
	ACGIH		Long Term: 0.025 mg/m3 (R), A2 - Pulm fibrosis, lung cancer
	MAK	SWITZERLAN D	Long Term: 0.15 mg/m3
	EU		Long Term: 0.1 mg/m3 Behaviour Binding
Predicted No Effect Conce	entration	(PNEC) value	25
			ater; PNEC Limit: 0.184 mg/l

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

titanium dioxide; Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Dioxotitanium Worker Industry: 0.17 mg/m3 CAS: 13463-67-7

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 >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

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.

# 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state: Liquid Appearance and colour: liquid white/grey Odour: mild Odour threshold: Not Relevant pH: 9.20 pH (water dispersion, 10%): 8.20 Melting point / freezing point: No data available Initial boiling point and boiling range: No data available Flash point: 100 °C (212 °F) Evaporation rate: No data available Upper/lower flammability or explosive limits: No data available Vapour density: Not Relevant Vapour pressure: Not Relevant Relative density: 1.31 g/cm3 Solubility in water: easily soluble Solubility in oil: No data available Partition coefficient (n-octanol/water): No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: Not Relevant Explosive properties: Not Relevant Oxidizing properties: Not Relevant Solid/gas flammability: Not Relevant Other information Substance Groups relevant properties Not Relevant

Substance Groups relevant properties Not Relevant Miscibility: Not Relevant Fat Solubility: Not Relevant Conductivity: Not Relevant

#### 10. Stability and reactivity

#### Reactivity

No data available

#### **Chemical stability**

Data not available.

### Possibility of hazardous reactions

None.

#### **Conditions to avoid**

No data available

#### Incompatible materials

Data not available.

### Hazardous decomposition products

Data not available.

# 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 da	mage/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 mut	agenicity	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 t	oxicity	Not classified
			Based on available data, the classification criteria are not met
	h) STOT-single e	xposure	Not classified
			Based on available data, the classification criteria are not met
	i) STOT-repeated	l exposure	Not classified
			Based on available data, the classification criteria are not met
	j) aspiration haza	ard	Not classified
			Based on available data, the classification criteria are not met
Toxico	logical informati	on on main com	ponents of the mixture:
titaniur Dioxoti	n dioxide; tanium	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

zinc oxide; oxozinc	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg
		LC50 Inhalation Rat > 5.7 mg/l 4h

silica sand; quartz	a) acute toxicity	LD50 Oral > 2000 mg/kg
		LD50 Skin > 2000 mg/kg

### Substance(s) listed on the IARC Monographs:

titanium dioxide; Dioxotitanium	Group 2B
silica sand; quartz	Group 1

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

Print	date

silica sand; quartz

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

titanium dioxide; Dioxotitanium

silica sand; quartz

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

silica sand; quartz

# 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

The product is classified: Acute (short-term) aquatic hazard - Category 3(H402), Chronic (long-term) aquatic hazard - Category 3(H412)

# List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
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
zinc oxide; oxozinc	CAS: 1314-13-2 - EINECS: 215- 222-5 - INDEX: 030-013-00-7	a) Aquatic acute toxicity : EC50 Daphnia = 0.413 mg/L 48h
		a) Aquatic acute toxicity : LC50 Algae = 0.136 mg/L 72h
		a) Aquatic acute toxicity : LC50 Fish Danio rerio = $1.55 \text{ mg/L}$ 96h ECHA

# Persistence and degradability

N.A.

# **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: 1000 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

Not compliant to DSL inventory

NDSL - Non Domestic Substances List Not compliant to 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:

	titanium dioxide; Dioxotitanium	is listed in TSCA Section 8b
	zinc oxide; oxozinc	is listed in TSCA Section 8b
	silica sand; quartz	is listed in TSCA Section 8b
SARA -	Superfund Amendments and Re Section 302 - Extremely Hazar	
	No substances listed	
	Section 304 - Hazardous subst	ances:
	No substances listed	
	Section 313 - Toxic chemical li	st:
	zinc oxide; oxozinc	
CERCLA	A - Comprehensive Environment	al Response, Compensation, and Liability Act
	Substance(s) listed under CER	CLA:
	No substances listed	
CAA - C	Clean Air Act	
	CAA listed substances:	
	No substances listed	
CWA -	Clean Water Act	
	CWA listed substances:	
	zinc oxide; oxozinc	is listed in CWA Section 307
	State specific regulations	
Californ	nia Proposition 65 Substance(s) listed under Calit	fornia Dronosition 65:
	titanium dioxide; Dioxotitanium	Listed as carcinogen
	silica sand; quartz	Listed as carcinogen
Massac	chusetts Right to know	
Plassac	Substance(s) listed under Mas	sachusetts Right to know:
	titanium dioxide; Dioxotitanium	
	zinc oxide; oxozinc	
	silica sand; quartz	
Pennsy	Ivania Right to know	
-	Substance(s) listed under Pen	nsylvania Right to know:
	titanium dioxide; Dioxotitanium	
	zinc oxide; oxozinc	
	silica sand; quartz	
New Je	ersey Right to know	
	Substance(s) listed under New	/ Jersey Right to know:
	titanium dioxide; Dioxotitanium	
	zinc oxide; oxozinc	
	silica sand; quartz	
16. Ot	her information	
Safety D	Data Sheet dated: 8/16/2024 - vers	sion 1

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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		
H350	May cause cancer.		
H351	Suspected of causing cancer.		
H372	Causes damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
Print date	08/16/2024 Production Name POLYBRITE 73		

Code	Hazard class and hazard category	Description
A.6/1A	Carc. 1A	Carcinogenicity, Category 1A
A.6/2	Carc. 2	Carcinogenicity, Category 2
A.9/1	STOT RE 1	Specific target organ toxicity following repeated exposure, Category 1
CAN-HAE/A1	Aquatic Acute 1	Acute (short-term) aquatic hazard - Category 1
CAN-HAE/C1	Aquatic Chronic 1	Chronic (long-term) aquatic hazard - Category 1

#### 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.