# **Safety Data Sheet**

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Name: Safety Yellow Polyurethane Product Code: UC-5547 Part A

MANUFACTURER: Heresite Protective TELEPHONE NUMBER: 1 (920) 684-6646
Coatings, LLC FAX NUMBER: 1 (920) 684-0110

822 S. 14th Street

Manitowoc, WI 54220 EMERGENCY PHONE: CHEMTREC

1 (800) 424-9300

E-MAIL ADDRESS OF PERSON RESPONSIBLE:

peter@heresite.com

Product Use: Industrial and Commercial Coatings, primary application to metal.

Not recommended for: Any other application

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### **GHS Ratings:**

Flammable liquid 3 Flash point >= 23°C and <= 60°C (140°F)

Mutagen 1B Known to produce heritable mutations in human germ

cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo

somatic mutagenicity tests, combined with some evidence of

germ cell mutagenicity

Carcinogen 1A Known Human Carcinogen Based on human evidence

#### Signal Word: Danger





#### **GHS Hazards**

H226	Flammable liquid and vapour
H340	May cause genetic defects
11050	

H350 May cause cancer

# **GHS Precautions**

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood

P210 Keep away from heat/sparks/open flames/hot surfaces No smoking

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment

P241 Use explosion-proof electrical/ventilating/light/equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P280 Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P308+P313 If exposed or concerned: Get medical advice/attention
P370+P378 In case of fire: Use CO2, dry chemical, or foam for extinction.

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P403 Store in a well ventilated place

P405 Store locked up

P501 Dispose of contents/container to in accordance with local/regional/national/international regulations.

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#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS number	Weight Concentration %
Titanium Dioxide	13463-67-7	10.00% - 20.00%
Butyl Acetate	123-86-4	10.00% - 20.00%
Methyl Amyl Ketone	110-43-0	10.00% - 20.00%
Solvent, Naptha, Heavy Aromatic	64742-95-6	1.00% - 5.00%
Crystalline Silica	14808-60-7	0.10% - 1.00%

# **SECTION 4 - FIRST AID MEASURES**

#### **General Advice**

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

#### Inhalation

Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen if a qualified operator is available. Get medical attention.

# **Eye Contact**

Immediately flush eyes with large amounts of water for at least 20 minutes, while holding eyelids open. Obtain medical attention immediately, as a precaution.

#### **Skin Contact**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

# Ingestion

If person is conscious, give them several glasses of water to drink. Do NOT induce vomiting unless directed to do so by medical personnel. Obtain immediate medical attention.

#### Most important symptoms and effects, both acute and delayed

No information available

# Indication of any immediate medical attention and special treatment needed

Consult a physician

#### **SECTION 5: FIRE-FIGHTING MEASURES**

# Extinguishing Media Suitable extinguishing media

Carbon Dioxide, Dry Chemical, Foam

#### Unsuitable extinguishing media

None identified

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# Special hazards arising from the substance or mixture

None identified

# Advice for firefighters

No data available

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Keep people at a distance and stay on the windward side.

Ensure adequate ventilation.

Keep away from ignition sources.

# **Environmental precautions:**

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

Prevent from spreading (e.g. by damning-in or oil barriers).

Keep dirty washing solution for appropriate disposal.

#### Methods and material for containment and cleaning up:

Ensure adequate ventilation and proper training.

Absorb with liquid-binding non combustible material (e.g. sand).

Clean the accident area carefully.

Send for recovery or disposal in suitable containers.

#### Reference to other sections:

See Section 2, 7, 8 and 13

# **SECTION 7: HANDLING AND STORAGE**

# Precautions for safe handling:

See Section 2

# Conditions for safe storage:

Store in a well-ventilated place.

Keep cool.

Store with only compatible materials.

# Specific end uses(s):

See Section 1

# **SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Titanium Dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	Not Established
Butyl Acetate 123-86-4	150 ppm TWA; 710 mg/m3 TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL

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Methyl Amyl Ketone	100 ppm TWA; 465 mg/m3	50 ppm TWA	NIOSH: 100 ppm TWA;
110-43-0	TWA		465 mg/m3 TWA
Solvent, Naptha, Heavy Aromatic 64742-95-6	Not Established	Not Established	Not Established
Crystalline Silica	TWA 10 mg/m3	0.025 mg/m3 TWA	NIOSH: 0.05 mg/m3
14808-60-7	PEL TWA 8hr	(respirable fraction)	TWA (respirable dust)

#### Additional information about design of technical systems:

Engineering controls should be used as a primary means to control exposures.

Make available emergency shower and eye wash at the workplace according to appropriate standards.

A workplace risk assessment must be carried out in order to determine the corrective engineering control and organizational measures and personal protective equipment.

No further data; see Section 7.

#### **Exposure controls**

#### Appropriate engineering controls:

No data available

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Take off immediately all contaminated clothing.

Launder work clothing regularly.

Wash hands before breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Do not eat, drink or smoke while working to limit potential ingestion of chemicals.

#### **Personal Protective Equipment**

#### Eye and Face Protection:

Wear eye protection/face protection.

#### **Skin Protection:**

Wear protective gloves/protective clothing.

#### **Hand Protection:**

The glove material has to be impermeable and resistant to the product.

Due to missing tests no recommendation to the glove material can be given for the product.

Selection of the glove material on consideration of the pnetration times, rates of diffusion and the degradation .

# **Respiratory Protection:**

Engineering controls should be used as primary means to control exposures. Local exhaust ventilation is required unless used in a closed system. For laboratory use, handle in a lab fume hood.

If the applicable Occupational Exposure Level (OEL) is exceeded, wear a NIOSH certified respiratory protection equipment meeting US requirements (1910.134 Occupational Safety and Health Administration, Personal Protective Equipment, Respiratory Protection) with a protection factor sufficient to control exposures to below the OEL.

# **Environmental Exposure Controls:**

See Section 6.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: No Data Found

Vapor Pressure: No Data Found

Vapor Density: No Data Found

Specific Gravity 1.30

Freezing point: No Data Found

Boiling range: >=118C

Evaporation rate: No Data Found

Explosive Limits: No Data Found

Autoignition temperature: No Data Found

Viscosity: No Data Found

Odor: No Data Found

Odor threshold: No Data Found

pH: No Data Found

Melting point: No Data Found

Solubility: No Data Found

Flash point: 26C/90F

Flammability: No Data Found

Partition coefficient (n- No Data Found

octanol/water):

Decomposition temperature: No Data Found

Grams VOC less water: No Data Found

## **SECTION 10: STABILITY AND REACTIVITY**

#### Reactivity:

No known hazards with respect to reactivity when handled and stored according to provisions.

#### **Chemical Stability:**

Stable under recommended storage and handling conditions.

#### Thermal decomposition / conditions to avoid:

Avoid exposure to heat, sources of ignition, and open flame. No decomposition if used according to specifications.

# Possibility of hazardous reactions:

No data available.

#### Conditions to avoid:

High Temperatures.

Heat, flames and sparks.

See section 2.

# Incompatible materials:

No further information available.

#### Hazardous decomposition products:

In case of fire: Carbon Dioxide, Carbon Monoxide, Hydrocarbons

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

## **Mixture Toxicity**

Dermal Toxicity LD50: 133mg/kg Inhalation Toxicity LC50: 34mg/L

**Component Toxicity** 

123-86-4 Butyl Acetate

Dermal LD50: 500 mg/m3 (Rabbit) Inhalation LC50: 390 ppm (Rat)

110-43-0 Methyl Amyl Ketone

Oral LD50: 1,600 mg/kg (Rat) Dermal LD50: 13 mL/kg (Rabbit)

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

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Routes of Entry:

Inhalation Skin Contact

Exposure to this material may affect the following organs:

Eyes Lungs Central Nervous System Skin Peripheral Nervous System

Respiratory System

**Effects of Overexposure** 

May be harmful if

May be harmful if swallowed

swallowed

May cause eye irritation.

May be harmful if

absorbed through skin. Causes skin

irritation.

May be harmful if

inhaled. Causes respiratory tract

irritation..

Irritating to eyes.

May be harmful if absorbed through skin. Causes skin irritation.

May be harmful if inhaled. Causes respiratory tract irritation..

Irritating to eyes.

<u>CAS Number</u> <u>Description</u> 13463-67-7 Titanium Diox

<u>Description</u> % Weight Titanium Dioxide 10 to 20% Carcinogen Rating
Titanium Dioxide:

NIOSH: potential

occupational carcinogen IARC: Possible human

carcinogen OSHA: listed

64742-95-6 Solvent, Naptha, Heavy Aromatic 1 to 5%

Solvent, Naptha, Heavy Aromatic: EU REACH:

Present (P)

14808-60-7 Crystalline Silica .1 to 1.0%

Crystalline Silica: NIOSH: potential

occupational carcinogen

IARC: Human carcinogen OSHA: listed

# **SECTION 12: ECOLOGICAL INFORMATION**

#### **Toxicity:**

No ecotoxicological data for the substance itself are available.

## Persistence and degradability:

No further relevant information available.

# Bioaccumulative potential:

No further relevant information available.

Mobility in soil:

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No further relevant information available

#### Results of PBT and VPvB assessment:

No data available

#### Other adverse effects:

No further relevant information available.

**Component Ecotoxicity** 

Butyl Acetate 96 Hr LC50 Lepomis macrochirus: 100 mg/L [static]; 96 Hr LC50 Pimephales

promelas: 17 - 19 mg/L [flow-through]

72 Hr EC50 Desmodesmus subspicatus: 674.7 mg/L

Methyl Amyl Ketone 96 Hr LC50 Pimephales promelas: 126 - 137 mg/L [flow-through]

Solvent, Naptha, Heavy Aromatic 96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L

48 Hr EC50 Daphnia magna: 6.14 mg/L

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### Waste treatment methods:

Waste material must be disposed of I/A/W Federal, State & Local environmental control regulations. Incineration is a recommended technology. Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. Do not heat/cut empty container with electric or gas torch.

# **SECTION 14: TRANSPORT INFORMATION**

#### **Environmental hazards:**

No information available

#### Special precautions for users:

No information available.

#### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not required, not intended to be carried in bulk tankers.

<b>Agency</b>	Proper Shipping Name	<b>UN Number</b>	Packing Group	<b>Hazard Class</b>
IATA	Paint	1263	III	3
IMDG	Paint	1263	III	3
USDOT	Paint	1263	III	3

# **SECTION 15: REGULATORY INFORMATION**

#### Classification:

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

14808-60-7 Crystalline Silica 0.1 to 1.0 % 13463-67-7 Titanium Dioxide 10 to 20 %

#### Clean Air Act

110-43-0 Methyl Amyl Ketone 10 to 20 % 123-86-4 Butyl Acetate 10 to 20 %

#### SARA Section 302

123-86-4

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#### SARA 311/312

14808-60-7

64742-95-6 Fire Hazard, Chronic Health Hazard, Acute Health Hazard

110-43-0 Fire Hazard, Chronic Health Hazard, Acute Health Hazard

123-86-4 Fire Hazard, Chronic Health Hazard, Acute Health Hazard

# TSCA (Toxic Substance Control Act)

64742-95-6 Solvent, Naptha, Heavy Aromatic 1 to 5 %

123-86-4 Butyl Acetate 10 to 20 %

# TSCA (Toxic Substance Control Act) 8b

14808-60-7 Crystalline Silica 0.1 to 1.0 %

64742-95-6 Solvent, Naptha, Heavy Aromatic 1 to 5 %

110-43-0 Methyl Amyl Ketone 10 to 20 %

123-86-4 Butyl Acetate 10 to 20 %

13463-67-7 Titanium Dioxide 10 to 20 %

Country	Regulation	All Components Listed
USA	New Jersey Right to Know	No
USA	Pennsylvania Right to Know	No
USA	Massachusetts Right to Know	No
AU	Australia inventory	Yes
CA	Canadian Domestic Substances List/Non-Domestic Substa	Yes
EU	European inventory	Yes
JP	Japan inventory	No
CN	China inventory	Yes
Korea	Korean Existing and Evaluated Chemical Substances	Yes
NZ	New Zealand inventory	Yes
PH	Philippine The Toxic Substances and Hazardous and Nucle	Yes
Canada		No

# **EU Risk Phrases**

#### **Safety Phrase**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations part 372.

14808-60-7 Crystalline Silica 0.1 - 1.0%

#### **SECTION 16: OTHER INFORMATION**

#### **Hazardous Material Information System (HMIS)**

# HEALTH \* 2 FLAMMABILITY 3 PHYSICAL HAZARD 0 PERSONAL PROTECTION 2 = 1

HMIS & NFPA Hazard Rating Legend

\* = Chronic Health Hazard

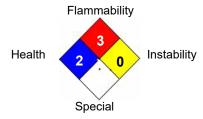
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

#### **National Fire Protection Association (NFPA)**



**DISCLAIMER:** The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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