



# SAFETY DATA SHEET

Issuing Date: 06-Mar-2021

Revision Date: 16-Mar-2021

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Code: 04708WPX

Product Name: 17925 WHITE URETHANE, MIL-PRF-85285E,TYPE I,CLASS H,PART A

Hentzen Coatings, Inc.  
6937 West Mill Road, Milwaukee, WI 53218-1225

Company Phone Number: 1-414-353-4200

Emergency telephone number ChemTrec 1-800-424-9300

Recommended use of the chemical and restrictions on use

Industrial paint (Paint or Paint-Related), Restricted to professional users

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Flammable Liquids	Category 2

### Label Elements

#### Emergency Overview

**DANGER**

#### Hazard Statements

Harmful if swallowed  
Causes serious eye irritation  
Suspected of causing cancer  
Highly flammable liquid and vapor



**Appearance** Opaque

**Physical state** Liquid

**Odor** Solvent

#### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear eye/face protection  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/Bond container and receiving equipment  
Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use only non-sparking tools  
Take precautionary measures against static discharge

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth  
In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool  
Store in accordance with local regulations

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

**Other information**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Contains a known or suspected carcinogen**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Chemical Name	CAS No	Weight-%	ACGIH	OSHA
TITANIUM DIOXIDE	13463-67-7	30% - 40%	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust
METHYL AMYL KETONE	110-43-0	10% - 20%	TWA: 50 ppm	TWA: 100 ppm TWA: 465 mg/m <sup>3</sup>
METHYL ACETATE	79-20-9	10% - 20%	STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 610 mg/m <sup>3</sup>
ACETYLACETONE	123-54-6	1% - 5%	TWA: 25 ppm S*	N/A

**4. FIRST AID MEASURES**

**First Aid Measures**

**General advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact** Wash off immediately with plenty of water.

**Inhalation** Remove to fresh air.

**Ingestion** Call a physician immediately. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

**Self-protection of the first aider** Remove all sources of ignition.

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

**Most Important Symptoms and Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No information available.

### **Specific hazards arising from the chemical**

Extremely flammable.

#### **Explosion Data**

**Sensitivity to Mechanical Impact** no data available.

**Sensitivity to Static Discharge** Yes.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment as required. Avoid breathing vapors or mists. Ventilate the area.

### **Environmental Precautions**

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Vapors are heavier than air, spread along floors and form explosive mixtures with air.

### **Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

**Advice on safe handling** Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use explosion-proof electrical (ventilation and lighting) equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. Use only non-sparking tools.

### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away

from heat, sparks and flame.

**Incompatible Products**

None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure Guidelines**

Chemical Name	ACGIH	OSHA	NIOSH IDLH
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine, including engineered nanoscale
METHYL AMYL KETONE 110-43-0	TWA: 50 ppm	TWA: 100 ppm TWA: 465 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 100 ppm TWA: 465 mg/m <sup>3</sup>
METHYL ACETATE 79-20-9	STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 610 mg/m <sup>3</sup>	IDLH: 3100 ppm TWA: 200 ppm TWA: 610 mg/m <sup>3</sup> STEL: 250 ppm STEL: 760 mg/m <sup>3</sup>
ACETYLACETONE 123-54-6	TWA: 25 ppm S*	N/A	

NIOSH IDLH: Immediately Dangerous to Life or Health

Exposure controls

**Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**

If splashes are likely to occur, wear safety glasses with side-shields.

**Skin and Body Protection**

Chemical resistant apron.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**

Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	Liquid	<b>Appearance</b>	Opaque
<b>Odor</b>	Solvent.	<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available	<b>Flash Point</b>	14 °F / -10 °C
<b>Decomposition temperature</b>	No data available	<b>Boiling Point</b>	133 °F / 56 °C
<b>Melting Point / Melting Range</b>	No data available	<b>Freezing Point</b>	No data available
<b>Vapor Pressure @20°C (kPa)</b>	No data available	<b>Partition coefficient:</b>	No data available
<b>Vapor Density</b>	No data available	<b>Density</b>	No data available
<b>Bulk density</b>	No data available	<b>Specific Gravity</b>	1.37
<b>Evaporation Rate</b>	No data available	<b>Water solubility</b>	No data available
<b>Dynamic viscosity</b>	No data available	<b>Weight per Gallon (lbs/gal):</b>	11.44
		<b>EPA VOC (lb/gal)</b>	3.41
<b>Flammability Limits in Air</b>			
Upper	0.01 %		

Lower 0 %

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Conditions to Avoid

Heat, flames and sparks.

### Incompatible Materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	The product has not been tested
<b>Inhalation</b>	There is no data for this product.
<b>Eye Contact</b>	There is no data for this product.
<b>Skin Contact</b>	There is no data for this product.
<b>Ingestion</b>	There is no data for this product.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
TITANIUM DIOXIDE 13463-67-7	> 10000 mg/kg ( Rat )	N/A	N/A
METHYL AMYL KETONE 110-43-0	= 1600 mg/kg ( Rat )	= 12.6 mL/kg ( Rabbit )	2000 - 4000 ppm ( Rat ) 6 h
METHYL ACETATE 79-20-9	> 5 g/kg ( Rat )	> 5 g/kg ( Rabbit )	> 49000 mg/m <sup>3</sup> ( Rat ) 4 h
ACETYLACETONE 123-54-6	= 570 mg/kg ( Rat ) = 760 mg/kg ( Rat )	= 1370 mg/kg ( Rabbit ) = 790 mg/kg ( Rabbit )	= 1224 ppm ( Rat ) 4 h
1,2,4-TRIMETHYLBENZENE 95-63-6	= 3280 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	= 18 g/m <sup>3</sup> ( Rat ) 4 h

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**MUTAGENIC EFFECTS** No information available.

**Carcinogenicity** This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
TITANIUM DIOXIDE 13463-67-7	N/A	Group 2B	N/A	X

### Legend:

*IARC (International Agency for Research on Cancer)*

*Group 2B - Possibly Carcinogenic to Humans*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

<b>Reproductive Toxicity</b>	No information available.
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available.
<b>Target Organ Effects</b>	Central nervous system (CNS), Eyes, Lungs, Peripheral Nervous System (PNS), Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	1516 mg/kg
<b>ATEmix (dermal)</b>	9134 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	6.2 mg/l
<b>Oral LD50</b>	1979 mg/kg (rat) Estimated
<b>Dermal LD50</b>	11891 mg/kg (rat) Estimated
<b>Inhalation LC50</b>	318384 mg/l (mist) (dust) mg/m <sup>3</sup> Estimated
<b>Inhalation LC50</b>	ml/m <sup>3</sup> (vapor) Estimated

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
METHYL AMYL KETONE 110-43-0	N/A	126 - 137: 96 h Pimephales promelas mg/L LC50 flow-through	N/A
METHYL ACETATE 79-20-9	120: 72 h Desmodesmus subspicatus mg/L EC50	250 - 350: 96 h Brachydanio rerio mg/L LC50 static 295 - 348: 96 h Pimephales promelas mg/L LC50 flow-through	1026.7: 48 h Daphnia magna mg/L EC50
ACETYLACETONE 123-54-6	N/A	50.3 - 71.8: 96 h Lepomis macrochirus mg/L LC50 flow-through 64.1 - 80.1: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 98.3 - 110: 96 h Pimephales promelas mg/L LC50 flow-through	34.4: 48 h Daphnia magna mg/L EC50
1,2,4-TRIMETHYLBENZENE 95-63-6	N/A	7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through	6.14: 48 h Daphnia magna mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
METHYL AMYL KETONE 110-43-0	1.98
METHYL ACETATE 79-20-9	0.18
ACETYLACETONE 123-54-6	0.34

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste treatment methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**US EPA Waste Number** D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
METHYL ACETATE 79-20-9	Toxic Ignitable

**14. TRANSPORT INFORMATION**

**DOT**

**UN-No** UN1263  
**Proper shipping name** Paint  
**Hazard class** 3  
**Packing Group** II  
**Special Provisions** 149, B52, IB2, T4, TP1, TP8, TP28  
**Description** UN1263, Paint, 3, II  
**Emergency Response Guide Number** 128

**TDG**

**UN-No** UN1263  
**Proper shipping name** Paint  
**Hazard class** 3  
**Packing Group** II  
**Description** UN1263, Paint, 3, II

**MEX**

**UN-No** UN1263  
**Proper shipping name** Paint  
**Hazard class** 3  
**Packing Group** II  
**Description** UN1263, Paint, 3, II

**ICAO**

**UN-No** UN1263  
**Proper shipping name** Paint  
**Hazard class** 3  
**Packing Group** II  
**Special Provisions** A3, A72  
**Description** UN1263, Paint, 3, II

**IATA**

**UN-No** UN1263  
**Hazard class** 3  
**Packing Group** II  
**ERG Code** 3L  
**Special Provisions** A3, A72, A192

**IMDG/IMO**

**UN-No** UN1263  
**Hazard class** 3  
**Packing Group** II  
**EmS-No** F-E, S-E  
**Special Provisions** 163, 367

**RID**

UN-No	UN1263
Proper shipping name	Paint
Hazard class	3
Packing Group	II
Classification Code	F1
Description	UN1263, Paint, 3, II

**ADR/RID**

UN-No	UN1263
Proper shipping name	Paint
Hazard class	3
Packing Group	II
Classification Code	F1
Tunnel restriction code	(D/E)
Special Provisions	163, 640C, 650, 367
Description	UN1263, Paint, 3, II, (D/E)
ADR/RID-Labels	3

**ADN**

Proper shipping name	Paint
Hazard class	3
Packing Group	II
Classification Code	F1
Special Provisions	163, 640C, 650
Description	UN1263, Paint, 3, II
Hazard Labels	3
Limited Quantity (LQ)	5 L
Ventilation	VE01

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes



**Sudden Release of Pressure Hazard**  
**Reactive Hazard**

No  
No

**CAA (Clean Air Act)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	CAS No	California Proposition 65
TITANIUM DIOXIDE	13463-67-7	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
TITANIUM DIOXIDE	X	X	X	N/A	N/A
METHYL AMYL KETONE	X	X	X	N/A	N/A
METHYL ACETATE	X	X	X	N/A	N/A
ACETYLACETONE	X	X	X	N/A	N/A
BUTYL ACETATE	X	X	X	N/A	N/A

**International Regulations**

**Mexico - Grade**

Serious risk, Grade 3

Chemical Name	Carcinogenic Status	Exposure Limits
TITANIUM DIOXIDE	N/A	Mexico: TWA 10 mg/m <sup>3</sup>
METHYL AMYL KETONE	N/A	Mexico: TWA 50 ppm
METHYL ACETATE	N/A	Mexico: TWA 200 ppm Mexico: TWA 610 mg/m <sup>3</sup> Mexico: STEL 250 ppm
ACETYLACETONE	N/A	Mexico: TWA 20 ppm

**16. OTHER INFORMATION**

**NFPA**                      **Health Hazard 2**                      **Flammability 3**                      **Instability 0**                      **Physical and Chemical Hazards -**

NFPA Rating



**HMIS**                      **Health Hazard 2 \***   **Flammability 3**                      **Physical Hazard 0**   **Personal protection X**

*Chronic Hazard Star Legend*

*\* Chronic Health Hazard*

**Issuing Date:**                      06-Mar-2021

**Revision Date:**                     16-Mar-2021

**Revision Note**

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. 04708WPX

**end**



# SAFETY DATA SHEET

Issuing Date: 02-Jan-2021

Revision Date: 05-Feb-2021

Print Date: 05-Feb-2021

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Code: 04700CMU

Product Name: HIGH SOLIDS URA-ZEN CATALYST PER MIL-PRF-85285E, PART B

Hentzen Coatings, Inc.  
6937 West Mill Road, Milwaukee, WI 53218-1225

Company Phone Number: 1-414-353-4200

Emergency telephone number ChemTrec 1-800-424-9300

Recommended use of the chemical and restrictions on use

Industrial paint (Paint or Paint-Related), Restricted to professional users

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Flammable Liquids	Category 3

### Label Elements

#### Emergency Overview

**DANGER**

#### Hazard Statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
Flammable liquid and vapor



Appearance Clear

Physical state Liquid

Odor Solvent

#### Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing should not be allowed out of the workplace  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/Bond container and receiving equipment  
Use explosion-proof electrical/ ventilating/ lighting/ equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Wear protective gloves/protective clothing/eye protection/face protection

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

**Other information**

- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**There are no known carcinogenic chemicals in this product**

This product contains substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990. See Section 15 for list of HAPS.

Chemical Name	CAS No	Weight-%	ACGIH	OSHA
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	80% - 90%	N/A	N/A
BUTYL ACETATE	123-86-4	5% - 10%	STEL: 150 ppm TWA: 50 ppm	TWA: 150 ppm TWA: 710 mg/m <sup>3</sup>
HEXAMETHYLENE DIISOCYANATE MONOMER	822-06-0	0% - 1%	TWA: 0.005 ppm	N/A

**4. FIRST AID MEASURES**

**First Aid Measures**

- General advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
- Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
- Skin Contact** Wash off immediately with soap and plenty of water. Consult a physician if necessary. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Inhalation** Asthma-like and/ or skin allergy-like symptoms.
- Ingestion** Call a physician immediately. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.
- Self-protection of the first aider** Remove all sources of ignition.
- Most important symptoms and effects, both acute and delayed**
- Most Important Symptoms and Effects** No information available.
- Indication of any immediate medical attention and special treatment needed**

Notes to physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use: Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol-resistant foam.

**Unsuitable Extinguishing Media** No information available.

### **Specific hazards arising from the chemical**

Flammable. Containers may explode when heated or if contaminated with water.

### **Explosion Data**

**Sensitivity to Mechanical Impact** no data available.

**Sensitivity to Static Discharge** Yes.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal Precautions**

Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists. Ventilate the area.

#### **Other information**

DECONTAMINATION SOLUTION: Concentrated ammonia (3 - 8%), detergent (2%) and water (90 - 95%), a solution of Union Carbide's Tergitol TMN-10 (20%) and water (80%) or a solution of 50% isopropanol, 45% water, and 5% concentrated ammonia solution(% by weight).

### **Environmental Precautions**

#### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Vapors are heavier than air, spread along floors and form explosive mixtures with air.

### **Methods and materials for containment and cleaning up**

#### **Methods for Containment**

Decontaminate floor with decontamination solution letting stand for at least 15 minutes. Soak up with inert absorbent material.

#### **Methods for Cleaning Up**

Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling**

#### **Advice on safe handling**

Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use explosion-proof electrical (ventilation and lighting) equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use with local exhaust ventilation. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe vapor or mist. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. Use only non-sparking tools.

### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks and flame. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.

**Incompatible Products** Water. Glycol ethers. Alcohols. Epoxies. Bases.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH	OSHA	NIOSH IDLH
BUTYL ACETATE 123-86-4	STEL: 150 ppm TWA: 50 ppm	TWA: 150 ppm TWA: 710 mg/m <sup>3</sup>	IDLH: 1700 ppm TWA: 150 ppm TWA: 710 mg/m <sup>3</sup> STEL: 200 ppm STEL: 950 mg/m <sup>3</sup>
HEXAMETHYLENE DIISOCYANATE MONOMER 822-06-0	TWA: 0.005 ppm	N/A	Ceiling: 0.020 ppm 10 min Ceiling: 0.140 mg/m <sup>3</sup> 10 min TWA: 0.005 ppm TWA: 0.035 mg/m <sup>3</sup>

NIOSH IDLH: Immediately Dangerous to Life or Health

**Exposure controls**

**Engineering Measures** Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

**Individual protection measures, such as personal protective equipment**

- Eye/Face Protection** Use personal protective equipment as required.
- Skin and Body Protection** Chemical resistant apron.
- Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	Liquid	<b>Appearance</b>	Clear
<b>Odor</b>	Solvent.	<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available	<b>Flash Point</b>	78 °F / 26 °C
<b>Decomposition temperature</b>	No data available	<b>Boiling Point</b>	244 °F / 118 °C
<b>Melting Point / Melting Range</b>	No data available	<b>Freezing Point</b>	No data available
<b>Vapor Pressure @20°C (kPa)</b>	No data available	<b>Partition coefficient:</b>	No data available
<b>Vapor Density</b>	No data available	<b>Density</b>	No data available
<b>Bulk density</b>	No data available	<b>Specific Gravity</b>	1.12
<b>Evaporation Rate</b>	No data available	<b>Water solubility</b>	No data available
<b>Dynamic viscosity</b>	No data available	<b>Weight per Gallon (lbs/gal):</b>	9.36
		<b>EPA VOC (lb/gal)</b>	0.93
<b>Flammability Limits in Air</b>			
Upper	0 %		
Lower	0 %		

**10. STABILITY AND REACTIVITY**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Conditions to Avoid**

Heat, flames and sparks.

**Incompatible Materials**

Water. Glycol ethers. Alcohols. Epoxies. Bases.

**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

<b>Product Information</b>	The product has not been tested
<b>Inhalation</b>	There is no data for this product.
<b>Eye Contact</b>	There is no data for this product.
<b>Skin Contact</b>	There is no data for this product.
<b>Ingestion</b>	There is no data for this product.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE 28182-81-2	N/A	N/A	= 18500 mg/m <sup>3</sup> ( Rat ) 1 h
BUTYL ACETATE 123-86-4	= 10768 mg/kg ( Rat )	> 17600 mg/kg ( Rabbit )	= 0.74 mg/L ( Rat ) 4 h
HEXAMETHYLENE DIISOCYANATE MONOMER 822-06-0	= 738 mg/kg ( Rat )	= 593 mg/kg ( Rabbit )	= 0.06 mg/L ( Rat ) 4 h

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	No information available.
<b>MUTAGENIC EFFECTS</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Legend:</b>	
<b>Reproductive Toxicity</b>	No information available.
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available.
<b>Chronic Toxicity</b>	Avoid repeated exposure.
<b>Target Organ Effects</b>	Central nervous system (CNS), Eyes, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 10963 mg/kg

ATEmix (dermal) 17936 mg/kg  
 ATEmix (inhalation-dust/mist) 28.2 mg/l  
 Oral LD50 85470 mg/kg (rat) Estimated  
 Dermal LD50 114943 mg/kg (rat) Estimated

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
BUTYL ACETATE 123-86-4	674.7: 72 h Desmodesmus subspicatus mg/L EC50	17 - 19: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Lepomis macrochirus mg/L LC50 static	N/A
HEXAMETHYLENE DIISOCYANATE MONOMER 822-06-0	N/A	26.1: 96 h Brachydanio rerio mg/L LC50 static	N/A

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
BUTYL ACETATE 123-86-4	1.81

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste treatment methods**

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**US EPA Waste Number**

D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
BUTYL ACETATE 123-86-4	Toxic

**14. TRANSPORT INFORMATION**

**DOT**

UN-No UN1263  
 Proper shipping name Paint  
 Hazard class 3  
 Packing Group III  
 Special Provisions B1, B52, IB3, T2, TP1, TP29  
 Description UN1263, Paint, 3, III  
 Emergency Response Guide Number 128

**TDG**



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UN-No	UN1263
Proper shipping name	Paint
Hazard class	3
Packing Group	III
Description	UN1263, Paint, 3, III

**MEX**

UN-No	UN1263
Proper shipping name	Paint
Hazard class	3
Packing Group	III
Description	UN1263, Paint, 3, III

**ICAO**

UN-No	UN1263
Proper shipping name	Paint
Hazard class	3
Packing Group	III
Special Provisions	A3, A72
Description	UN1263, Paint, 3, III

**IATA**

UN-No	UN1263
Hazard class	3
Packing Group	III
ERG Code	3L
Special Provisions	A3, A72, A192

**IMDG/IMO**

UN-No	UN1263
Hazard class	3
Packing Group	III
EmS-No	F-E, S-E
Special Provisions	163, 223, 367 955

**RID**

UN-No	UN1263
Proper shipping name	Paint
Hazard class	3
Packing Group	III
Classification Code	F1
Description	UN1263, Paint, 3, III

**ADR/RID**

UN-No	UN1263
Proper shipping name	Paint
Hazard class	3
Packing Group	III
Classification Code	F1
Tunnel restriction code	(D/E)
Special Provisions	163, 640E, 650, 367
Description	UN1263, Paint, 3, III, (D/E)
ADR/RID-Labels	3

**ADN**

Proper shipping name	Paint
Hazard class	3
Packing Group	III
Classification Code	F1
Special Provisions	163, 640E, 650
Description	UN1263, Paint, 3, III
Hazard Labels	3

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Limited Quantity (LQ) 5 L  
Ventilation VE01

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA Complies  
DSL/NDL Complies  
EINECS/ELINCS Complies  
ENCS Complies  
IECSC Complies  
KECL Complies  
PICCS Complies  
AICS Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute Health Hazard Yes  
Chronic Health Hazard No  
Fire Hazard Yes  
Sudden Release of Pressure Hazard No  
Reactive Hazard No

**CAA (Clean Air Act)**

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants This product contains the following HAPs:

Chemical Name	CAS No	Hazardous air pollutants (HAPs) content
HEXAMETHYLENE DIISOCYANATE MONOMER	822-06-0	Present

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
BUTYL ACETATE	5000 lb	N/A	N/A	X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ (reportable quantity)
BUTYL ACETATE	5000 lb	N/A	RQ 5000 lb final RQ RQ 2270 kg final RQ
HEXAMETHYLENE	100 lb	N/A	RQ 100 lb final RQ

DIISOCYANATE MONOMER			RQ 45.4 kg final RQ
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**State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
BUTYL ACETATE	X	X	X	N/A	N/A

**International Regulations**

**Mexico - Grade** Serious risk, Grade 3

Chemical Name	Carcinogenic Status	Exposure Limits
BUTYL ACETATE	N/A	Mexico: TWA 150 ppm Mexico: TWA 710 mg/m <sup>3</sup> Mexico: STEL 200 ppm
HEXAMETHYLENE DIISOCYANATE MONOMER	N/A	Mexico: TWA 0.005 ppm

**16. OTHER INFORMATION**

**NFPA** Health Hazard 2 Flammability 3 Instability 0 Physical and Chemical Hazards -

NFPA Rating



**HMIS** Health Hazard 2 \* Flammability 3 Physical Hazard 1 Personal protection X

Chronic Hazard Star Legend

\* Chronic Health Hazard

Issuing Date: 02-Jan-2021

Revision Date: 05-Feb-2021

Revision Note

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. 04700CMU

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