

# SAFETY DATA SHEET

Issuing Date: 22-May-2015 Revision Date: 28-Sep-2016 Revision Number: 2

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

Product Code: TS-1-G1 Product Name: HISOLIDS ABRASION RESISTANT

**POLYURETHANE BAC-707 GRAY** 

Hentzen Coatings, Inc.

Company Phone Number: 1-414-353-4200
6937 West Mill Road, Milwaukee, WI 53218-1225

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)

Carcinogenicity	Category 1A
Flammable Liquids	Category 2

#### **Label Elements**

# Emergency Overview

#### DANGER

## Hazard Statements

May cause 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

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

In case of fire: Use CO2, dry chemical, or foam for extinction

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# **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

· May be harmful if swallowed

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# Contains a known or suspected carcinogen

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
TITANIUM DIOXIDE	13463-67-7	20% - 30%	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust
METHYL AMYL KETONE	110-43-0	10% - 20%	TWA: 50 ppm	TWA: 100 ppm TWA: 465 mg/m <sup>3</sup>
BUTYL ACETATE	123-86-4	5% - 10%	STEL: 200 ppm TWA: 150 ppm	TWA: 150 ppm TWA: 710 mg/m <sup>3</sup>
BUTYL ACETATE	123-86-4	1% - 5%	STEL: 200 ppm TWA: 150 ppm	TWA: 150 ppm TWA: 710 mg/m <sup>3</sup>
CRISTOBLITE CRYSTALLINE SILICA	14464-46-1	0% - 1%	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	: (1/2)(30)/(%SiO2 + 2) mg/m³ TWA total dust : (1/2)(250)/(%SiO2 + 5) mppcf TWA respirable fraction : (1/2)(10)/(%SiO2 + 2) mg/m³ TWA respirable fraction
ETHYLBENZENE	100-41-4	0% - 1%	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>

# 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** Clean mouth with water and afterwards drink plenty of water.

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

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and No.

**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** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate

ventilation. Use personal protective equipment as required. Avoid breathing vapors or mists.

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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.

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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/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
METHYL AMYL KETONE	TWA: 50 ppm	TWA: 100 ppm	IDLH: 800 ppm
110-43-0		TWA: 465 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 465 mg/m <sup>3</sup>
BUTYL ACETATE	STEL: 200 ppm	TWA: 150 ppm	IDLH: 1700 ppm
123-86-4	TWA: 150 ppm	TWA: 710 mg/m <sup>3</sup>	TWA: 150 ppm
			TWA: 710 mg/m <sup>3</sup> STEL: 200 ppm
			STEL: 200 ppm STEL: 950 mg/m <sup>3</sup>
ALUMINUM OXIDE	TWA: 1 mg/m³ respirable fraction	TWA: 15 mg/m³ total dust	_
1344-28-1		TWA: 5 mg/m³ respirable fraction	
BUTYL ACETATE	STEL: 200 ppm	TWA: 150 ppm	IDLH: 1700 ppm
123-86-4	TWA: 150 ppm	TWA: 710 mg/m <sup>3</sup>	TWA: 150 ppm
			TWA: 710 mg/m <sup>3</sup>
			STEL: 200 ppm STEL: 950 mg/m³
CRISTOBLITE CRYSTALLINE	TWA: 0.025 mg/m³ respirable	: (1/2)(30)/(%SiO2 + 2) mg/m <sup>3</sup>	IDLH: 25 mg/m³ respirable dust
SILICA	fraction	TWA total dust	TWA: 0.05 mg/m³ respirable dust
14464-46-1	liaction	: (1/2)(250)/(%SiO2 + 5) mppcf	1 WA. 0.03 mg/m² Tespirable dust
14404 40 1		TWA respirable fraction	
		: (1/2)(10)/(%SiO2 + 2) mg/m <sup>3</sup>	
		TWA respirable fraction	
XYLENE(PURE)	STEL: 150 ppm	TWA: 100 ppm	
1330-20-7	TWA: 100 ppm	TWA: 435 mg/m <sup>3</sup>	
ALUMINUM OXIDE	TWA: 1 mg/m³ respirable fraction	TWA: 15 mg/m³ total dust	
1344-28-1		TWA: 5 mg/m³ respirable fraction	
ETHYLBENZENE	TWA: 20 ppm	TWA: 100 ppm	IDLH: 800 ppm
100-41-4		TWA: 435 mg/m <sup>3</sup>	TWA: 100 ppm
			TWA: 435 mg/m <sup>3</sup>
			STEL: 125 ppm
NIO 011 1011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 125 11 121		STEL: 545 mg/m <sup>3</sup>

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

Physical state Liquid Appearance Opaque

Odor Solvent. **Odor Threshold** No data available рΗ No data available Flash Point 12 °F / -11 °C Decomposition temperature No data available **Boiling Point** 171 °F / 77 °C Melting Point / Melting Range No data available Freezing Point No data available Vapor Pressure @20°C (kPa) No data available Partition coefficient: No data available **Vapor Density** No data available Density No data available

Bulk density No data available Specific Gravity 1.34

Evaporation Rate No data available Water solubility No data available

Dynamic viscosity No data available Weight per Gallon (lbs/gal): 11.15

Flammability Limits in Air

**Upper** 2.48 % **Lower** 0.44 %

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# 10. STABILITY AND REACTIVITY

## Reactivity

No data available

## **Chemical stability**

Stable under recommended storage conditions.

## **Conditions to Avoid**

Extremes of temperature and direct sunlight.

# **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

**Product Information** The product has not been tested

Inhalation There is no data for this product.

**Eye Contact** There is no data for this product.

**Skin Contact** There is no data for this product.

**Ingestion** There is no data for this product.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
TITANIUM DIOXIDE	10000 mg/kg (Rat)	N/A	N/A
13463-67-7			
METHYL AMYL KETONE	1600 mg/kg (Rat)	12.6 mL/kg (Rabbit)	2000 ppm (Rat) 4 h
110-43-0			
BUTYL ACETATE	10768 mg/kg (Rat)	17600 mg/kg (Rabbit)	390 ppm (Rat) 4 h
123-86-4			
ALUMINUM OXIDE	5000 mg/kg (Rat)	N/A	N/A
1344-28-1			
BUTYL ACETATE	10768 mg/kg (Rat)	17600 mg/kg (Rabbit)	390 ppm (Rat) 4 h
123-86-4			
XYLENE(PURE)	3500 mg/kg (Rat)	4350 mg/kg (Rabbit)	29.08 mg/L (Rat) 4 h
1330-20-7			
ALUMINUM OXIDE	5000 mg/kg (Rat)	N/A	N/A
1344-28-1			
ETHYLBENZENE	3500 mg/kg (Rat)	15400 mg/kg ( Rabbit )	17.2 mg/L (Rat) 4 h
100-41-4			

## 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

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carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
TITANIUM DIOXIDE 13463-67-7	N/A	Group 2B	N/A	X
CRISTOBLITE CRYSTALLINE SILICA 14464-46-1	A2	Group 1	N/A	X
XYLENE(PURE) 1330-20-7	N/A	Group 3	N/A	N/A
ETHYLBENZENE 100-41-4	A3	Group 2B	N/A	X

#### Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

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

X - Present

Reproductive Toxicity
Specific target organ systemic

toxicity (single exposure)
Specific target organ systemic

toxicity (repeated exposure)

No information available.

No information available.

No information available.

Target Organ Effects Central nervous system (CNS), Eyes, Lungs, Peripheral Nervous System (PNS),

Respiratory system, Skin.

**Aspiration hazard** 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) 4211 mg/kg
ATEmix (dermal) 30474 mg/kg
ATEmix (inhalation-dust/mist) 5.6 mg/l

**Oral LD50** 6083 mg/kg (rat) Estimated **Dermal LD50** 39216 mg/kg (rat) Estimated

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
METHYL AMYL KETONE	N/A	126 - 137: 96 h Pimephales	N/A
110-43-0		promelas mg/L LC50 flow-through	
BUTYL ACETATE	674.7: 72 h Desmodesmus	100: 96 h Lepomis macrochirus	N/A
123-86-4	subspicatus mg/L EC50	mg/L LC50 static 17 - 19: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through	
BUTYL ACETATE	674.7: 72 h Desmodesmus	100: 96 h Lepomis macrochirus	N/A

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400.00.4		// LOSO -1-1'- 47, 40, 00 h	
123-86-4	subspicatus mg/L EC50	mg/L LC50 static 17 - 19: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through	
XYLENE(PURE)	N/A	13.4: 96 h Pimephales promelas	3.82: 48 h water flea mg/L EC50
1330-20-7		mg/L LC50 flow-through 2.661 -	0.6: 48 h Gammarus lacustris mg/L
		4.093: 96 h Oncorhynchus mykiss	LC50
		mg/L LC50 static 13.5 - 17.3: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		13.1 - 16.5: 96 h Lepomis	
		macrochirus mg/L LC50	
		flow-through 19: 96 h Lepomis	
		macrochirus mg/L LC50 7.711 -	
		9.591: 96 h Lepomis macrochirus	
		mg/L LC50 static 23.53 - 29.97: 96	
		h Pimephales promelas mg/L LC50	
		static 780: 96 h Cyprinus carpio	
		mg/L LC50 30.26 - 40.75: 96 h	
		Poecilia reticulata mg/L LC50 static	
		780: 96 h Cyprinus carpio mg/L	
		LC50 semi-static	
ETHYLBENZENE	1.7 - 7.6: 96 h Pseudokirchneriella	32: 96 h Lepomis macrochirus mg/L	1.8 - 2.4: 48 h Daphnia magna mg/L
100-41-4	subcapitata mg/L EC50 static 4.6:	LC50 static 9.1 - 15.6: 96 h	EĊ50
	72 h Pseudokirchneriella	Pimephales promelas mg/L LC50	
	subcapitata mg/L EC50 438: 96 h	static 9.6: 96 h Poecilia reticulata	
	Pseudokirchneriella subcapitata	mg/L LC50 static 11.0 - 18.0: 96 h	
	mg/L EC50 2.6 - 11.3: 72 h	Oncorhynchus mykiss mg/L LC50	
	Pseudokirchneriella subcapitata	static 4.2: 96 h Oncorhynchus	
		mykiss mg/L LC50 semi-static 7.55 -	
		11: 96 h Pimephales promelas mg/L	
		LC50 flow-through	

# Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
METHYL AMYL KETONE	1.98
110-43-0	
BUTYL ACETATE	1.81
123-86-4	
BUTYL ACETATE	1.81
123-86-4	
ETHYLBENZENE	3.118
100-41-4	

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

Chemical Name	RCRA - Basis for Listing	RCRA - D Series Wastes
XYLENE(PURE) 1330-20-7	Included in waste stream: F039	N/A
ETHYLBENZENE 100-41-4	Included in waste stream: F039	N/A

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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
BUTYL ACETATE 123-86-4	Toxic
XYLENE(PURE) 1330-20-7	Toxic Ignitable
ETHYLBENZENE 100-41-4	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, RQ

Emergency Response Guide 128

Number

**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

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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 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

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

Chemical Name	CAS No	SARA 313 - Threshold Values %
ALUMINUM OXIDE	1344-28-1	1.0
ETHYLBENZENE	100-41-4	0.1

# SARA 311/312 Hazard Categories

Acute Health Hazard No

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Chronic Health HazardNoFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

## **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
XYLENE(PURE)	1330-20-7	Present
ETHYLBENZENE	100-41-4	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
BUTYL ACETATE	5000 lb	N/A	N/A	X
XYLENE(PURE)	100 lb	N/A	N/A	X
ETHYLBENZENE	1000 lb	X	X	Χ

## **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	RQ (reportable quantity)
		RQs	
BUTYL ACETATE	5000 lb	N/A	RQ 5000 lb final RQ
			RQ 2270 kg final RQ
BUTYL ACETATE	5000 lb	N/A	RQ 5000 lb final RQ
			RQ 2270 kg final RQ
XYLENE(PURE)	100 lb	N/A	RQ 100 lb final RQ
			RQ 45.4 kg final RQ
ETHYLBENZENE	1000 lb	N/A	RQ 1000 lb final RQ
			RQ 454 kg final RQ

# **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
ETHYLBENZENE	100-41-4	Carcinogen

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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
TITANIUM DIOXIDE	Х	Х	X	N/A	X
METHYL AMYL KETONE	Χ	X	X	N/A	N/A
BUTYL ACETATE	Χ	X	X	N/A	N/A
ALUMINUM OXIDE	Χ	X	X	N/A	N/A
BUTYL ACETATE	Χ	X	X	N/A	X
CRISTOBLITE	Χ	X	X	Х	N/A
CRYSTALLINE SILICA					
XYLENE(PURE)	Χ	X	X	Χ	X
TRIETHYL	Χ	X	X	N/A	N/A
ORTHOFORMATE					
ETHYLBENZENE	Χ	X	X	X	X

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# 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>
		Mexico: STEL 20 mg/m <sup>3</sup>
METHYL AMYL KETONE	N/A	Mexico: TWA 50 ppm
		Mexico: TWA 235 mg/m <sup>3</sup>
		Mexico: STEL 100 ppm
		Mexico: STEL 465 mg/m <sup>3</sup>
BUTYL ACETATE	N/A	Mexico: TWA 150 ppm
		Mexico: TWA 710 mg/m <sup>3</sup>
		Mexico: STEL 200 ppm
		Mexico: STEL 950 mg/m <sup>3</sup>
ALUMINUM OXIDE	N/A	Mexico: TWA 10 mg/m <sup>3</sup>
BUTYL ACETATE	N/A	Mexico: TWA 150 ppm
		Mexico: TWA 710 mg/m <sup>3</sup>
		Mexico: STEL 200 ppm
		Mexico: STEL 950 mg/m <sup>3</sup>
CRISTOBLITE CRYSTALLINE SILICA	N/A	Mexico: TWA 0.05 mg/m <sup>3</sup>
XYLENE(PURE)	N/A	Mexico: TWA 100 ppm
		Mexico: TWA 435 mg/m <sup>3</sup>
		Mexico: STEL 150 ppm
		Mexico: STEL 655 mg/m <sup>3</sup>
ALUMINUM OXIDE	N/A	Mexico: TWA 10 mg/m <sup>3</sup>
ETHYLBENZENE	N/A	Mexico: TWA 100 ppm
		Mexico: TWA 435 mg/m <sup>3</sup>
		Mexico: STEL 125 ppm
		Mexico: STEL 545 mg/m <sup>3</sup>

# **16. OTHER INFORMATION**

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



Health Hazard 1 \* Flammability 3 Physical Hazard 0 Personal protection X

Chronic Hazard Star Legend \* Chronic Health Hazard

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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

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materials or in any process, unless specified in the text. TS-1-G1GV

end



# SAFETY DATA SHEET

Issuing Date: 22-May-2015 Revision Date: 22-May-2015 Revision Number: 1

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

Product Code: PH-15 Product Name: POLYURETHANE CURING SOLUTION
Hentzen Coatings, Inc. Company Phone Number: 1-414-353-4200
6937 West Mill Road, Milwaukee, WI 53218-1225 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 2
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 3

#### **Label Elements**

#### **Emergency Overview**

# DANGER

#### **Hazard Statements**

Fatal if swallowed

May cause respiratory irritation. May cause drowsiness or dizziness

Flammable liquid and vapor





Appearance Opaque

Physical state Liquid

**Odor** Solvent

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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

Keep cool

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

# **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed 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

## 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	28182-81-2	70% - 80%	N/A	N/A
DIISOCYANATE				
BUTYL ACETATE	123-86-4	20% - 30%	STEL: 200 ppm	TWA: 150 ppm
			TWA: 150 ppm	TWA: 710 mg/m <sup>3</sup>
HEXAMETHYLENE DIISOCYANATE	822-06-0	0% - 1%	TWA: 0.005 ppm	N/A

# 4. FIRST AID MEASURES

#### **First Aid Measures**

**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.

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. Keep people away from and upwind of spill/leak. Avoid

breathing vapors or mists. Ventilate the area. Remove all sources of ignition. Use personal

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protective equipment as required.

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 With clean shovel place material into clean, dry container and cover loosely; move

containers from spill area. Do not contaminate ponds, waterways or ditches with chemical or used container. Dam up. 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 Avoid contact with skin and eyes. Do not breathe vapor or mist. Use with local exhaust

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

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Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled

containers. Keep away from heat, sparks and flame. Protect from moisture.

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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	STEL: 200 ppm	TWA: 150 ppm	IDLH: 1700 ppm
123-86-4	TWA: 150 ppm	TWA: 710 mg/m <sup>3</sup>	TWA: 150 ppm
		_	TWA: 710 mg/m <sup>3</sup>
			STEL: 200 ppm
			STEL: 950 mg/m <sup>3</sup>
HEXAMETHYLENE	TWA: 0.005 ppm	N/A	Ceiling: 0.020 ppm 10 min
DIISOCYANATE			Ceiling: 0.140 mg/m <sup>3</sup> 10 min
822-06-0			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

Opaque Physical state Liquid **Appearance** Odor Solvent. Odor Threshold No data available 78 °F / 26 °C рΗ No data available Flash Point 244 °F / 118 °C **Decomposition temperature** No data available **Boiling Point** Melting Point / Melting Range No data available Freezing Point No data available Vapor Pressure @20°C (kPa) No data available Partition coefficient: No data available **Vapor Density** No data available **Density** No data available

Bulk density No data available Specific Gravity 1.07

Evaporation Rate No data available Water solubility No data available

Dynamic viscosity No data available Weight per Gallon (lbs/gal): 8.88

Flammability Limits in Air

**Upper** 2.08 % **Lower** 0.47 %

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions.

#### **Conditions to Avoid**

Extremes of temperature and direct sunlight.

#### **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

**Product Information** The product has not been tested

**Inhalation** There is no data for this product.

**Eye Contact** There is no data for this product.

**Skin Contact** There is no data for this product.

**Ingestion** There is no data for this product.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
BUTYL ACETATE	14.13 mg/kg (Rat)	17600 mg/kg (Rabbit)	390 ppm (Rat) 4 h
123-86-4			
HEXAMETHYLENE	738 mg/kg (Rat)	593 mg/kg (Rabbit)	0.06 mg/L (Rat)4 h
DIISOCYANATE			- ' '
822-06-0			

## 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.

Legend:

Reproductive Toxicity
Specific target organ systemic toxicity (single exposure)

No information available. No information available.

Specific target organ systemic toxicity (repeated exposure)

Chronic Toxicity Avoid repeated exposure.

Target Organ Effects Central nervous system (CNS), Eyes, Respiratory system, Skin.

No information available.

**Aspiration hazard** 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) 14 mg/kg
ATEmix (dermal) 17693 mg/kg
ATEmix (inhalation-dust/mist) 76.5 mg/l

Oral LD5065 mg/kg (rat) EstimatedDermal LD5063547 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	100: 96 h Lepomis macrochirus mg/L LC50 static 17 - 19: 96 h Pimephales promelas mg/L LC50 flow-through	N/A
HEXAMETHYLENE DIISOCYANATE 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	1.81
123-86-4	

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	Toxic
123-86-4	

# 14. TRANSPORT INFORMATION

DOT

UN-NoUN1263Proper shipping namePaintHazard class3Packing GroupII

**Special Provisions** 149, B52, IB2, T4, TP1, TP8, TP28

**Description** UN1263, Paint, 3, II, RQ

**Emergency Response Guide** 128

Number

**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

**ICAO** 

UN-NoUN1263Proper shipping namePaintHazard class3Packing GroupIISpecial ProvisionsA3, A72

**Description** UN1263, Paint, 3, II

IMDG/IMO

UN-NoUN1263Proper shipping namePaintHazard class3Packing GroupIIEmS-NoF-E, S-ESpecial Provisions163

**Description** UN1263, Paint, 3, II

**RID** 

UN-NoUN1263Proper shipping namePaintHazard class3Packing GroupIIClassification CodeF1

**Description** UN1263, Paint, 3, II

ADR/RID

UN-NoUN1263Proper shipping namePaintHazard class3Packing GroupIIClassification CodeF1Tunnel restriction code(D/E)

**Special Provisions** 163, 640C, 650

**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

Limited Quantity (LQ) 5 L Ventilation VE01

# 15. REGULATORY INFORMATION

**International Inventories** 

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

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 HazardYesChronic Health HazardNoFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

#### **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	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 DIISOCYANATE	100 lb	N/A	RQ 100 lb final RQ RQ 45.4 kg final RQ

# **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
		Mexico: STEL 950 mg/m <sup>3</sup>

# **16. OTHER INFORMATION**

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



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

**Issuing Date:** 22-May-2015

22-May-2015

Revision Date: 22-May-2015

Revision Date: 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.

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