

# **Material Safety Data Sheet**

Issuing Date: 22-Dec-2011 Revision Date: 11-Oct-2013 Version: 1.1

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 31105KPX-T1 Product Name: 37038 BLACK FLAT URETHANE

Hentzen Coatings, Inc.

6937 West Mill Road, Milwaukee, WI 53218-1225

MIL-PRF-85285E,TYPE I,CLASS H, PART A
Company Phone Number: 1-414-353-4200
Emergency Telephone: ChemTrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

Irritating to eyes

May cause central nervous system depression
EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE
Vapors may be irritating to eyes, nose, throat, and lungs

**Potential Health Effects** 

Principle Routes of Exposure Inhalation, Skin Contact, Eye Contact

**Acute Toxicity** 

Eyes Prolonged contact may result in chemical burns or blindness. Moderately irritating to the

eyes. May cause irritation.

**Skin** May cause skin irritation and/or dermatitis. Repeated exposure may cause skin dryness or

cracking. Prolonged skin contact may defat the skin and produce dermatitis. May cause

irritation.

**Inhalation** May be harmful if inhaled. May cause irritation of respiratory tract.

**Ingestion** Harmful if swallowed. Ingestion may cause irritation to mucous membranes.

**Chronic Toxicity** Avoid repeated exposure.

**Aggravated Medical Conditions** Central nervous system. Preexisting eye disorders. Skin disorders. Respiratory disorders.

Lymphatic System. Peripheral Nervous System (PNS).

**Environmental hazard** See Section 12 for additional Ecological Information.

### 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.

**Hazardous Components** 

		Chemical Name	CAS-No	Weight	ACGIH TLV	OSHA PEL
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METHYL ACETATE	79-20-9	20% - 30%	STEL: 250 ppm	TWA: 200 ppm TWA: 610
			TWA: 200 ppm	mg/m³
				(vacated) TWA: 200 ppm
				(vacated) TWA: 610
				mg/m <sup>3</sup>
				(vacated) STEL: 250 ppm
				(vacated) STEL: 760
				mg/m³
METHYL AMYL KETONE	110-43-0	10% - 20%	TWA: 50 ppm	TWA: 100 ppm TWA: 465
				mg/m <sup>3</sup>
				(vacated) TWA: 100 ppm
				(vacated) TWA: 465
1,110.1				mg/m³
MICA	12001-26-2	10% - 20%	TWA: 3 mg/m <sup>3</sup> respirable	
			fraction	respirable dust less than
				1% crystalline silica
				TWA: 20 mppcf <1%
A CETYL A CETONIC	400.54.0	F0/ 400/	_	crystalline silica
ACETYLACETONE	123-54-6	5% - 10%	_	-
CARBON BLACK	1333-86-4	0% - 5%	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
				(vacated) TWA: 3.5
				mg/m³
BUTYL ACETATE	123-86-4	0% - 5%	STEL: 200 ppm	TWA: 150 ppm TWA: 710
			TWA: 150 ppm	mg/m³
				(vacated) TWA: 150 ppm
				(vacated) TWA: 710 mg/m <sup>3</sup>
				(vacated) STEL: 200 ppm
				(vacated) STEL: 200 ppin (vacated) STEL: 950
				mg/m <sup>3</sup>
QUARTZ CRYSTALLINE SILICA	44000 00 7	0% - 5%	TWA: 0.025 mg/m <sup>3</sup>	(vacated) TWA: 0.1
QUARTZ CRYSTALLINE SILICA	14808-60-7	0% - 5%	respirable fraction	mg/m³ respirable dust
			respirable fraction	: (30)/(%SiO2 + 2)
				mg/m <sup>3</sup> TWA total dust :
				(250)/(%SiO2 + 5) mppcf
				TWA respirable fraction :
				(10)/(%SiO2 + 2) mg/m <sup>3</sup>
				TWA respirable fraction
XYLENE(PURE)	1330-20-7	0% - 5%	STEL: 150 ppm	TWA: 100 ppm TWA: 435
ATLENE(PURE)	1330-20-7	0% - 5%	TWA: 100 ppm	mg/m <sup>3</sup>
			1 VVA. 100 ppill	(vacated) TWA: 100 ppm
				(vacated) TWA: 100 ppm (vacated) TWA: 435
				mg/m <sup>3</sup>
				(vacated) STEL: 150 ppm
				(vacated) STEL: 655
				mg/m <sup>3</sup>
			I	

# 4. FIRST AID MEASURES

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

physician.

**Eye Contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

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persist, call a physician.

**Skin Contact** Immediate medical attention is not required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes. If skin irritation persists, call a

physician.

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**Inhalation** Consult a physician. If breathing is irregular or stopped, administer artificial respiration.

Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Move to fresh air. Immediate medical attention is not required. Move to fresh air in case of

accidental inhalation of vapors. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a

physician. Clean mouth with water and afterwards drink plenty of water. Never give

anything by mouth to an unconscious person. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

Flammable Properties HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames

Extremely flammable liquid and vapor

Flammable Liquid

Flash Point 14 °F / -10 °C

Flammability Limits in Air

**Upper** 6.37 % **Lower** 1.17 %

Suitable Extinguishing Media Dry Chemical.

**Explosion Data** 

**Sensitivity to Mechanical Impact** None. **Sensitivity to Static Discharge** Yes.

Specific hazards arising from the

chemical

Extremely flammable.

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

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

\* Chronic Health Hazard

# 6. ACCIDENTAL RELEASE MEASURES

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

ventilation. Use personal protective equipment. Keep people away from and upwind of

spill/leak. Avoid breathing vapors or mists. Ventilate the area.

**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.

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

Methods for Cleaning Up Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent

material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert

absorbent material.

### 7. HANDLING AND STORAGE

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 only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. Use bonding and grounding when transferring materials. Use non-sparking tools and equipment.

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**Technical Measures/Storage Conditions** 

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL
METHYL ACETATE	STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 610 mg/m³ (vacated) TWA: 200 ppm (vacated) TWA: 610 mg/m³ (vacated) STEL: 250 ppm (vacated) STEL: 760 mg/m³
METHYL AMYL KETONE	TWA: 50 ppm	TWA: 100 ppm TWA: 465 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 465 mg/m³
MICA	TWA: 3 mg/m³ respirable fraction	(vacated) TWA: 3 mg/m³ respirable dust less than 1% crystalline silica TWA: 20 mppcf <1% crystalline silica
CARBON BLACK	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³
BUTYL ACETATE	STEL: 200 ppm TWA: 150 ppm	TWA: 150 ppm TWA: 710 mg/m³ (vacated) TWA: 150 ppm (vacated) TWA: 710 mg/m³ (vacated) STEL: 200 ppm (vacated) STEL: 950 mg/m³
QUARTZ CRYSTALLINE SILICA	TWA: 0.025 mg/m³ respirable fraction	(vacated) TWA: 0.1 mg/m³ respirable dust : (30)/(%SiO2 + 2) mg/m³ TWA total dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction
XYLENE(PURE)	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m³

NIOSH IDLH: Immediately Dangerous to Life or Health

**Engineering Measures** Handle only in a place equipped with local exhaust (or other appropriate exhaust). However

it is the duty of the user to verify this and follow given exposure limits at the workplace.

Keep away from fire, sparks and heated surfaces.

**Personal Protective Equipment** 

**Eye/Face Protection** Tightly fitting safety goggles. Face-shield.

Solvent-resistant gloves. Handle in accordance with good industrial hygiene and safety **Skin and Body Protection** 

practice. Remove contaminated clothing and shoes. Wash contaminated clothing before

reuse.

**Respiratory Protection** Maintain adequate ventilation. If exposure limits are exceeded or irritation is experienced,

NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection

must be provided in accordance with current local regulations.

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When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area **Hygiene Measures** 

and clothing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid Opaque Physical State @20°C **Appearance** 

Odor Solvent. **Flash Point** 14 °F / -10 °C

**Boiling Point** 133 °F / 56 °C **Specific Gravity** 9.18

Weight per Gallon (lbs/gal):

Flammability Limits in Air

6.37 % Upper 1.17 % Lower

# 10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

**Incompatible Products** Strong oxidizing agents.

**Conditions to Avoid** None known based on information supplied.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors. Carbon

monoxide (CO). Carbon dioxide (CO2).

**Hazardous Polymerization** Hazardous polymerization does not occur.

# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

**Product Information** Excessive inhalation of crystalline silica may cause lung damage in the form of silicosis,

which is progressive and sometimes fatal. Long-term repeated exposure to Xylene may

result in hearing loss.

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
METHYL ACETATE	5000 mg/kg (Rat)	2000 mg/kg (Rat) 5000 mg/kg ( Rabbit)	16000 ppm (Rat) 4 h
METHYL AMYL KETONE	1670 mg/kg (Rat)	12600 μL/kg (Rabbit)	-
ACETYLACETONE	55 mg/kg (Rat)	810 μL/kg (Rabbit)	1224 ppm (Rat) 4 h
CARBON BLACK	15400 mg/kg (Rat)	3 g/kg (Rabbit)	-
BUTYL ACETATE	10768 mg/kg (Rat)	17600 mg/kg (Rabbit)	390 ppm (Rat) 4 h
QUARTZ CRYSTALLINE SILICA	500 mg/kg (Rat)	-	-
XYLENE(PURE)	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	47635 mg/L (Rat)4 h 5000 ppm Rat)4 h

**Chronic Toxicity** 

**Product Information** Excessive inhalation of crystalline silica may cause lung damage in the form of silicosis,

which is progressive and sometimes fatal. Long-term repeated exposure to Xylene may

result in hearing loss. Avoid repeated exposure.

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### 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	IARC	ACGIH	NTP	OSHA
CARBON BLACK	Group 2B	-	-	X
QUARTZ CRYSTALLINE SILICA	Group 1	A2	Known	Х
XYLENE(PURE)	Group 3	-	-	-

# Legend:

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human 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

NTP: (National Toxicity Program)
Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)** 

X - Present

**Target Organ Effects** 

Central nervous system (CNS), Eyes, Lymphatic System, Peripheral Nervous System (PNS), Respiratory system, Skin.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
METHYL ACETATE	120: 72 h Desmodesmus subspicatus mg/L EC50	295-348: 96 h Pimephales promelas mg/L LC50 flow-through 250-350: 96 h Brachydanio rerio mg/L LC50 static	-	1026.7: 48 h Daphnia magna mg/L EC50
METHYL AMYL KETONE	-	126-137: 96 h Pimephales promelas mg/L LC50 flow-through	-	-
ACETYLACETONE	-	98.3-110: 96 h Pimephales promelas mg/L LC50 flow-through 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	-	34.4: 48 h Daphnia magna mg/L EC50
CARBON BLACK	-	-	-	5600: 24 h Daphnia magna mg/L EC50
BUTYL ACETATE	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 62: 96 h Leuciscus idus mg/L LC50 static	-	72.8: 24 h Daphnia magna mg/L EC50

XYLENE(PURE)	- 13.4: 96 h Pimephales -	3.82: 48 h water flea mg/L
,	promelas mg/L LC50	EC50 0.6: 48 h Gammarus
	flow-through 2.661-4.093: 96	lacustris mg/L LC50
	h Oncorhynchus mykiss	J S
	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	
	semi-static 780: 96 h	
	Cyprinus carpio mg/L LC50	
	30.26-40.75: 96 h Poecilia	
	reticulata mg/L LC50 static	

# 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

**US EPA Waste Number** U140 U239 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	Toxic Ignitable
BUTYL ACETATE	Toxic
XYLENE(PURE)	Toxic Ignitable

# 14. TRANSPORT INFORMATION

DOT

Proper shipping name Paint **Hazard class** 3 **UN/ID No** UN1263

**Packing Group** 

Description UN1263, Paint, 3, II

**Emergency Response Guide** 128

Number

**TDG** 

Proper shipping name Paint **Hazard class** 3 **UN/ID No** UN1263 **Packing Group** 

UN1263, Paint, 3, II Description

**MEX** 

Proper shipping name Paint **Hazard class** 3

**UN/ID No** UN1263 **Packing Group** 

Description UN1263, Paint, 3, II

**ICAO** 

**UN/ID No** UN1263 Proper shipping name Paint **Hazard class** 3 Ш **Packing Group** 

UN1263, Paint, 3, II Description

ICAO/IATA

UN1263 UN/ID No Proper shipping name Paint **Hazard class** 3 Ш **Packing Group ERG Code** 3L

UN1263, Paint, 3, II Description

IMDG/IMO

Proper shipping name Paint **Hazard class** 3 **UN/ID No** 

UN1263 **Packing Group** Ш EmS No. F-E, S-E

UN1263, Paint, 3, II Description

RID

Paint Proper shipping name **Hazard class** 3 UN1263 **UN/ID No Packing Group Classification Code** F1

Description UN1263, Paint, 3, II

ADR/RID

Proper shipping name Paint **Hazard class** UN1263 **UN/ID No Packing Group** Ш **Classification Code** 

UN1263, Paint, 3, II, (D/E) Description

ADR/RID-Labels

**ADN** 

Proper shipping name Paint Hazard class **UN/ID No** UN1263 **Packing Group** Ш **Classification Code** F1

**Special Provisions** 163, 640C, 650 Description UN1263, Paint, 3, II

Limited quantity 5 L Ventilation VE01

# 15. REGULATORY INFORMATION

**International Inventories** 

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TSCA Complies DSL/NDSL Complies

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# **U.S. 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

# Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS-No	Weight	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
XYLENE(PURE)	1330-20-7	0.111112	Present	Group I	-	-

#### **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	-	-	X
XYLENE(PURE)	100 lb	-	-	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
BUTYL ACETATE	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
XYLENE(PURE)	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

# **U.S. State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
CARBON BLACK	1333-86-4	Carcinogen
QUARTZ CRYSTALLINE SILICA	14808-60-7	Carcinogen

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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island

METHYL ACETATE	X	X	X	•	X
METHYL AMYL KETONE	Х	X	X	-	Х
MICA	X	X	X	=	X
AMORPHOUS PRECIPITATED SILICA	Х	Х	Х	-	-
ACETYLACETONE	X	X	Х	=	-
CARBON BLACK	X	X	X	X	X
BUTYL ACETATE	X	X	Х	=	Χ
QUARTZ CRYSTALLINE SILICA	Х	Х	Х	-	Х

# **International Regulations**

XYLENE(PURE)

### Mexico - Grade

Serious risk, Grade 3

Χ

Χ

Chemical Name	Carcinogen Status	Exposure Limits
METHYL ACETATE	-	Mexico: TWA 200 ppm Mexico: TWA 610
		mg/m³
		Mexico: STEL 250 ppm Mexico: STEL 760
		mg/m³
METHYL AMYL KETONE	-	Mexico: TWA 50 ppm Mexico: TWA 235
		mg/m³
		Mexico: STEL 100 ppm Mexico: STEL 465
		mg/m³
MICA	-	Mexico: TWA 3 mg/m <sup>3</sup>
CARBON BLACK	-	Mexico: TWA 3.5 mg/m <sup>3</sup>
		Mexico: STEL 7 mg/m <sup>3</sup>
BUTYL ACETATE	-	Mexico: TWA 150 ppm Mexico: TWA 710
		mg/m³
		Mexico: STEL 200 ppm Mexico: STEL 950
		mg/m³
QUARTZ CRYSTALLINE SILICA	-	Mexico: TWA 0.1 mg/m <sup>3</sup>
XYLENE(PURE)	-	Mexico: TWA 100 ppm Mexico: TWA 435
, ,		mg/m³
		Mexico: STEL 150 ppm Mexico: STEL 655
		mg/m³

# **16. OTHER INFORMATION**

# **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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