



Material Safety Data Sheet

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Version: 1.5

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 17101KWA

Product Name: 37038 BLACK WATER REDUCIBLE
MIL-DTL-64159B, TYPE II, PART A

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

Company Phone Number: 1-414-353-4200
Emergency Telephone: ChemTrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to respiratory system
May cause skin irritation and/or dermatitis
May be harmful if swallowed
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. Irritating to eyes.

Skin Irritating to skin. May cause inflammation.

Inhalation Irritating to respiratory system. May be harmful if inhaled. May cause irritation of respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may cause irritation to mucous membranes.

Chronic Toxicity Avoid repeated exposure. May cause adverse liver effects.

Aggravated Medical Conditions Gastrointestinal tract. Preexisting eye disorders. Liver disorders. Skin disorders. Respiratory disorders.

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
BLACK IRON OXIDE PIGMENT	1317-61-9	10% - 20%	TWA: 1 mg/m ³ Fe	(vacated) TWA: 1 mg/m ³ Fe
N-METHYL-2-PYRROLIDONE	872-50-4	0% - 5%	-	-
CARBON BLACK	1333-86-4	0% - 5%	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³

TRIETHYLAMINE	121-44-8	0% - 5%	STEL: 3 ppm TWA: 1 ppm S*	TWA: 25 ppm TWA: 100 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 40 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 60 mg/m ³
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4. FIRST AID MEASURES

General advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. 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.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	If symptoms persist, call a physician. Move to fresh air. Artificial respiration and/or oxygen may be necessary. Consult a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors.
Ingestion	Immediate medical attention is not required. Do NOT induce vomiting. Rinse mouth. Drink plenty of water. 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	Not flammable
Flash Point	201 °F / 94 °C
Flammability Limits in Air	
Upper	0.5 %
Lower	0.07 %
Suitable Extinguishing Media	Dry Chemical.
Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
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** 0 * **Flammability** 1 **Physical Hazard** 1 **Personal protection** X
 * Chronic Health Hazard

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with the skin and the eyes. Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists. Ventilate the area.
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Odor	Solvent.	Flash Point	201 °F / 94 °C
Boiling Point	192 °F / 89 °C	Specific Gravity	1.18
Weight per Gallon (lbs/gal):	9.82		
Flammability Limits in Air			
Upper	0.5 %		
Lower	0.07 %		

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 (CO ₂).
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.
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Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
BLACK IRON OXIDE PIGMENT	10000 mg/kg (Rat)	-	-
N-METHYL-2-PYRROLIDONE	3598 mg/kg (Rat)	2000 mg/kg (Rabbit) 2500 mg/kg (Rat)	3.1 mg/L (Rat) 4 h
CARBON BLACK	15400 mg/kg (Rat)	3 g/kg (Rabbit)	-
TRIETHYLAMINE	460 mg/kg (Rat)	416 mg/kg (Rabbit) 570 µL/kg (Rabbit)	0.42 mg/L (Rat) 1 h 3496 ppm (Rat) 1 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. Avoid repeated exposure. May cause adverse liver effects.
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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).
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Chemical Name	IARC	ACGIH	NTP	OSHA
CARBON BLACK	Group 2B	-	-	X

Legend:

IARC: (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
OSHA: (Occupational Safety & Health Administration)
X - Present

Target Organ Effects Eyes, Gastrointestinal tract (GI), Liver, 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
N-METHYL-2-PYRROLIDONE	500: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	832: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 4000: 96 h <i>Leuciscus idus</i> mg/L LC50 static 1072: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1400: 96 h <i>Poecilia reticulata</i> mg/L LC50 static	-	4897: 48 h <i>Daphnia magna</i> mg/L EC50
CARBON BLACK	-	-	-	5600: 24 h <i>Daphnia magna</i> mg/L EC50
TRIETHYLAMINE	-	43.7: 96 h <i>Pimephales promelas</i> mg/L LC50 static	-	200: 48 h <i>Daphnia magna</i> mg/L EC50

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 U404

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
ICAO/IATA	Not regulated
IMDG/IMO	Not regulated
RID	Not regulated
ADR/RID	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories

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 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	Weight	SARA 313 - Threshold Values %
N-METHYL-2-PYRROLIDONE	872-50-4	0% - 5%	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
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
TRIETHYLAMINE	121-44-8	0.699375	Present	Group IV	-	-

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
TRIETHYLAMINE	5000 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
TRIETHYLAMINE	5000 lb	-	RQ 5000 lb final RQ RQ 2270 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
N-METHYL-2-PYRROLIDONE	872-50-4	Developmental
CARBON BLACK	1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
N-METHYL-2-PYRROLIDONE	X	X	X	-	-
CARBON BLACK	X	X	X	X	X
TRIETHYLAMINE	X	X	X	X	X

International Regulations

Mexico - Grade

Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
BLACK IRON OXIDE PIGMENT	-	Mexico: TWA 1 mg/m ³ Mexico: STEL 2 mg/m ³
CARBON BLACK	-	Mexico: TWA 3.5 mg/m ³ Mexico: STEL 7 mg/m ³
TRIETHYLAMINE	-	Mexico: TWA 25 ppm Mexico: TWA 100 mg/m ³ Mexico: STEL 40 ppm Mexico: STEL 160 mg/m ³

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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