

SAFETY DATA SHEET

Issuing Date: 22-Dec-2011 Revision Date: 24-Feb-2015 Revision Number: 1

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

Product Code: 08671GUZ-B33 Product Name: 34088 OLIVE DRAB VOHAP FREE

ZENTHANE MIL-DTL-53039E, TYPE IX

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 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Carcinogenicity	Category 2
Flammable Liquids	Category 3

Label Elements

Emergency Overview

WARNING

Hazard Statements

Harmful if swallowed harmful if inhaled Suspected of causing cancer Flammable liquid and vapor



Appearance Opaque Physical state Liquid Odor Solvent

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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

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

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

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

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

• Harmful to aquatic life with long lasting effects

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
METHYL AMYL KETONE	110-43-0	30% - 40%	TWA: 50 ppm	TWA: 100 ppm
				TWA: 465 mg/m ³
HOMOPOLYMER OF HEXAMETHYLENE	28182-81-2	20% - 30%	N/A	N/A
DIISOCYANATE				
CHROME, NICKEL, ANTIMONY TITANIUM	68186-90-3	5% - 10%		TWA: 0.5 mg/m ³ Sb TWA:
DIOXIDE PIGMENT			0.5 mg/m ³ Cr	0.5 mg/m ³ Cr
BARIUM SULFATE	7727-43-7	5% - 10%	TWA: 5 mg/m³ inhalable	
			fraction, particulate matter	
			containing no asbestos	TWA: 5 mg/m³ respirable
			and <1% crystalline silica	fraction
HEXAMETHYLENE DIISOCYANATE	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 Immediately flush eyes with water for at least 15 minutes. Get medical attention. If easy to

do, remove contact lenses. Keep eye wide open while rinsing. If symptoms persist, call a

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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.

InhalationConsult a physician if necessary. If breathing is irregular or stopped, administer artificial

respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Asthma-like and/ or skin allergy-like symptoms.

Ingestion 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

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. 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

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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 ContainmentDecontaminate floor with decontamination solution letting stand for at least 15 minutes.

Soak up with inert absorbent material.

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

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. 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
METHYL AMYL KETONE	TWA: 50 ppm	TWA: 100 ppm	IDLH: 800 ppm
110-43-0		TWA: 465 mg/m ³	TWA: 100 ppm
			TWA: 465 mg/m ³
CHROME, NICKEL, ANTIMONY	TWA: 0.5 mg/m ³ Sb TWA: 0.5	TWA: 0.5 mg/m ³ Sb TWA: 0.5	IDLH: 50 mg/m ³ Sb IDLH: 25 mg/m ³
TITANIUM DIOXIDE PIGMENT	mg/m³ Cr	mg/m³ Cr	Cr(III)
68186-90-3			TWA: 0.5 mg/m ³ Sb TWA: 0.5
			mg/m³ Cr
BARIUM SULFATE	TWA: 5 mg/m³ inhalable fraction,	TWA: 15 mg/m³ total dust	TWA: 10 mg/m³ total dust
7727-43-7	particulate matter containing no	TWA: 5 mg/m³ respirable fraction	TWA: 5 mg/m³ respirable dust
	asbestos and <1% crystalline silica		
TITANIUM DIOXIDE	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m ³
13463-67-7			
IRON (III) OXIDE	TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ fume	IDLH: 2500 mg/m3 Fe dust and
1309-37-1	_ '	TWA: 15 mg/m³ total dust	fume
		TWA: 5 mg/m³ respirable fraction	TWA: 5 mg/m³ Fe dust and fume

ORGANIC TIN COMPOUND	STEL: 0.2 mg/m³ Sn	TWA: 0.1 mg/m ³ Sn	IDLH: 25 mg/m³ Sn
77-58-7	TWA: 0.1 mg/m³ Sn		TWA: 0.1 mg/m³ except Cyhexatin
	S*		Sn

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

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provided in accordance with current local regulations.

Hygiene MeasuresDo 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

No data available Solvent. Odor **Odor Threshold** 100 °F / 38 °C No data available Flash Point pН 278 °F / 137 °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 1.06

Evaporation Rate No data available Water solubility No data available

Dynamic viscosity No data available Weight per Gallon (lbs/qal): 8.85

Flammability Limits in Air

Upper 2.88 % Lower 0.4 %

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.

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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
METHYL AMYL KETONE 110-43-0	1600 mg/kg (Rat)	12.6 mL/kg (Rabbit)	2000 ppm (Rat) 4 h
CHROME,NICKEL,ANTIMONY TITANIUM DIOXIDE PIGMENT 68186-90-3	10000 mg/kg(Rat)	N/A	N/A
TITANIUM DIOXIDE 13463-67-7	10000 mg/kg (Rat)	N/A	N/A
IRON (III) OXIDE 1309-37-1	10000 mg/kg (Rat)	N/A	N/A
ORGANIC TIN COMPOUND 77-58-7	45 mg/kg (Rat)	630 mg/kg (Rabbit)	N/A

Information on toxicological effects

Symptoms No information available.

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

Sensitization MUTAGENIC EFFECTSNo information available.
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
CHROME, NICKEL, ANTIMO NY TITANIUM DIOXIDE PIGMENT 68186-90-3	N/A	Group 3	N/A	N/A
TITANIUM DIOXIDE 13463-67-7	N/A	Group 2B	N/A	Х
IRON (III) OXIDE 1309-37-1	N/A	Group 3	N/A	N/A

Legend:

IARC (International Agency for Research on Cancer)

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.

Chronic Toxicity May cause adverse liver effects.

Target Organ Effects Central nervous system (CNS), Central Vascular System (CVS), Eyes, Gastrointestinal

tract (GI), Kidney, Liver, Lungs, Peripheral Nervous System (PNS), Respiratory system,

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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) 1102 mg/kg
ATEmix (dermal) 12638 mg/kg
ATEmix (inhalation-dust/mist) 1.5 mg/l

Oral LD50 7604 mg/kg (rat) Estimated
Dermal LD50 34443 mg/kg (rat) Estimated

Inhalation LC50 4639933 mg/l (mist) (dust) mg/m³ Estimated

Inhalation LC50 ml/m³ (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

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
METHYL AMYL KETONE	1.98
110-43-0	

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 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
CHROME,NICKEL,ANTIMONY TITANIUM DIOXIDE PIGMENT 68186-90-3	Toxic Corrosive Ignitable
BARIUM SULFATE 7727-43-7	Toxic soluble
ORGANIC TIN COMPOUND 77-58-7	Toxic

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14. TRANSPORT INFORMATION

DOT

UN-NoUN1263Proper shipping namePaintHazard class3Packing GroupIII

Special Provisions B1, B52, IB3, T2, TP1, TP29

Description UN1263, Paint, 3, III

Emergency Response Guide 128

Number

TDG

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-NoUN1263Proper shipping namePaintHazard class3Packing GroupIIISpecial ProvisionsA3, A72

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

IMDG/IMO

UN-No
UN1263
Proper shipping name
Hazard class
Packing Group
EmS-No
Special Provisions
Description
UN1263
Paint
3
III
F-E, S-E
Special Provisions
163, 223, 955
UN1263, Paint, 3, III

RID

UN-No UN1263
Proper shipping name Paint
Hazard class 3

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Packing Group III Classification Code F1

Description UN1263, Paint, 3, III

ADR/RID

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

Special Provisions 163, 640E, 650

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

ADR/RID-Labels 3

ADN

Proper shipping namePaintHazard class3Packing GroupIIIClassification CodeF1

Special Provisions 163, 640E, 650 **Description** UN1263, Paint, 3, III

Limited Quantity (LQ) 5 L Ventilation VE01

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSL Complies **EINECS/ELINCS** Complies Complies **ENCS** Complies **IECSC KECL** Complies **PICCS** Complies 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 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 %
CHROME, NICKEL, ANTIMONY TITANIUM DIOXIDE	68186-90-3	1.0
PIGMENT		

SARA 311/312 Hazard Categories

Acute Health Hazard Yes

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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
CHROME, NICKEL, ANTIMONY TITANIUM DIOXIDE PIGMENT	68186-90-3	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
CHROME,NICKEL,ANTIMO NY TITANIUM DIOXIDE PIGMENT	N/A	Х	N/A	N/A

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
METHYL AMYL KETONE	X	X	X	N/A	X
CHROME,NICKEL,ANTIMO NY TITANIUM DIOXIDE PIGMENT	N/A	Х	Х	Х	Х
BARIUM SULFATE	X	X	X	N/A	X
TITANIUM DIOXIDE	Χ	X	X	N/A	X

International Regulations

Mexico - Grade

Moderate risk, Grade 2

Chemical Name	Carcinogenic Status	Exposure Limits
METHYL AMYL KETONE	N/A	Mexico: TWA 50 ppm
		Mexico: TWA 235 mg/m ³
		Mexico: STEL 100 ppm
		Mexico: STEL 465 mg/m ³
CHROME, NICKEL, ANTIMONY TITANIUM DIOXIDE	N/A	Mexico: TWA 0.5 mg/m ³
PIGMENT		

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TITANIUM DIOXIDE	N/A	Mexico: TWA 10 mg/m³ Mexico: STEL 20 mg/m³
IRON (III) OXIDE	N/A	Mexico: TWA 5 mg/m³ Mexico: STEL 10 mg/m³
ORGANIC TIN COMPOUND	N/A	Mexico: TWA 0.1 mg/m ³ Mexico: STEL 0.2 mg/m ³

16. OTHER INFORMATION

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



HMIS Health Hazard 1 * Flammability 2 Physical Hazard 0 Personal protection X

Chronic Hazard Star Legend * Chronic Health Hazard

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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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