

SAFETY DATA SHEET

Issuing Date: 22-Dec-2011 Revision Date: 15-Feb-2015 Revision Number: 1

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

Product Code: 08605GUZ-ULVOC Product Name: GREEN 383, 34094 VHF 1.0 VOC ZENTHANE,

MIL-DTL-53039E, TYPE IV

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 2
Flammable Liquids	Category 3

Label Elements

Emergency Overview

WARNING

Hazard Statements

Suspected of causing cancer 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

Precautionary Statements - Storage

08605GUZ-ULVOC - GREEN 383, 34094 VHF 1.0 VOC ZENTHANE, MIL-DTL-53039E, TYPE IV

Revision Date: 15-Feb-2015

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 in contact with skin

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
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	10% - 20%	N/A	N/A
COBALT CHROMITE GREEN PIGMENT	68187-49-5	5% - 10%	TWA: 0.02 mg/m³ Co TWA: 0.5 mg/m³ Cr	TWA: 0.5 mg/m ³ Cr
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. If symptoms persist, call a physician.

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

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

physician if necessary. If breathing is irregular or stopped, administer artificial respiration. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.

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

Ingestion Do NOT induce vomiting. Drink plenty of water. Rinse mouth. 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 if necessary.

Self-protection of the first aider Remove all sources of ignition. Use personal protective equipment as required.

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

Wear self-contained breathing apparatus and protective suit.

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

Revision Date: 15-Feb-2015

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 Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later

disposal. Decontaminate 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). 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.

Revision Date: 15-Feb-2015

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
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL) 98-56-6	TWA: 2.5 mg/m³ F	TWA: 2.5 mg/m³ F TWA: 2.5 mg/m³ dust	
COBALT CHROMITE GREEN PIGMENT 68187-49-5	TWA: 0.02 mg/m³ Co TWA: 0.5 mg/m³ Cr	TWA: 0.5 mg/m³ Cr	IDLH: 25 mg/m³ Cr(III) TWA: 0.5 mg/m³ Cr
CHROMIC OXIDE 1308-38-9	TWA: 0.5 mg/m³ Cr	TWA: 0.5 mg/m ³ Cr	IDLH: 25 mg/m³ Cr(III) TWA: 0.5 mg/m³ Cr
MAGNESIUM-FERRITE PIGMENT 12068-86-9	TWA: 1 mg/m ³ Fe	N/A	TWA: 1 mg/m³ Fe

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

Liquid Physical state **Appearance** Opaque Solvent. No data available Odor **Odor Threshold** 100 °F / 38 °C pН No data available **Flash Point** Decomposition temperature No data available **Boiling Point** 282 °F / 139 °C Freezing Point Melting Point / Melting Range No data available 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): 11.13

Flammability Limits in Air

 Upper
 3.97 %

 Lower
 0.34 %

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

Thermal decomposition can lead to release of irritating gases and vapors.

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
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL) 98-56-6	13 g/kg(Rat)	2 mL/kg(Rabbit)	33 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

Sensitization No information available.

MUTAGENIC EFFECTS No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

				,
Chemical Name	ACGIH	IARC	NTP	OSHA
COBALT CHROMITE GREEN PIGMENT 68187-49-5	A3	Group 2B Group 3	N/A	X
CHROMIC OXIDE 1308-38-9	N/A	Group 3	N/A	N/A

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

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 No information available. No information available.

No information available.

toxicity (repeated exposure)

08605GUZ-ULVOC - GREEN 383, 34094 VHF 1.0 VOC ZENTHANE, MIL-DTL-53039E, TYPE IV

Revision Date: 15-Feb-2015

Chronic Toxicity Prolonged or repeated exposure increases the risk. Avoid repeated exposure. May cause

adverse liver effects.

Target Organ Effects Eyes, Gastrointestinal tract (GI), Liver, 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) 16022 mg/kg ATEmix (dermal) 2916 mg/kg ATEmix (inhalation-dust/mist) 7398.6 mg/l

Oral LD50 17452 mg/kg (rat) Estimated 4675 mg/kg (rat) Estimated

Inhalation LC50 47810 mg/l (mist) (dust) mg/m³ Estimated

Inhalation LC50

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to daphnia and other aquatic invertebrates
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL) 98-56-6	N/A	N/A	3.68: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

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 U165 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
COBALT CHROMITE GREEN PIGMENT	Toxic
68187-49-5	Corrosive
	Ignitable
CHROMIC OXIDE	Toxic
1308-38-9	Corrosive
	Ignitable

14. TRANSPORT INFORMATION

DOT

UN-No UN1263 Proper shipping name Paint

Hazard class 3 **Packing Group** Ш

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

Description UN1263, Paint, Marine Pollutant, 3, III

Emergency Response Guide 128

Number

TDG

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

Description UN1263, Paint, Marine Pollutant, 3, III

MEX

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

Description UN1263, Paint, 3, III

ICAO

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

Description UN1263, Paint, 3, III

IATA

UN-No UN1263 **Hazard class** 3 **Packing Group** Ш **ERG Code** 3L

Special Provisions A3, A72, A192

IMDG/IMO

UN-No UN1263 **Hazard class** 3 **Packing Group** Ш 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** Ш Classification Code

Description UN1263, Paint, Environmentally Hazardous, 3, III

ADR/RID

UN1263 **UN-No** Proper shipping name Paint Hazard class 3 **Packing Group** Ш Classification Code F1 **Tunnel restriction code** (D/E)

Special Provisions 163, 640E, 650, 367

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

ADR/RID-Labels

ADN

Proper shipping name Paint Hazard class 3
Packing Group III
Classification Code F1

Special Provisions 163, 640E, 650

Description UN1263, Paint, Environmentally Hazardous, 3, III

Hazard Labels 3 Limited Quantity (LQ) 5 L Ventilation VE01

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA DSL/NDSL** Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL 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 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 %
COBALT CHROMITE GREEN PIGMENT	68187-49-5	0.1 1.0
CHROMIC OXIDE	1308-38-9	1.0

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
COBALT CHROMITE GREEN PIGMENT	68187-49-5	Present
CHROMIC OXIDE	1308-38-9	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 CWA - Toxic Pollutants CWA - Priority Pollutants CWA - Hazardous

	Quantities			Substances
COBALT CHROMITE	N/A	X	N/A	N/A
GREEN PIGMENT				
CHROMIC OXIDE	N/A	X	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 does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	N/A	X	N/A	N/A	X
COBALT CHROMITE GREEN PIGMENT	N/A	Х	Х	Х	Х
CHROMIC OXIDE	X	X	Х	X	X

International Regulations

Mexico - Grade

Moderate risk, Grade 2

Chemical Name	Carcinogenic Status	Exposure Limits
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	N/A	Mexico: TWA 2.5 mg/m ³
COBALT CHROMITE GREEN PIGMENT	N/A	Mexico: TWA 0.5 mg/m ³
CHROMIC OXIDE	N/A	Mexico: TWA 0.5 mg/m ³
MAGNESIUM-FERRITE PIGMENT	N/A	Mexico: TWA 1 mg/m ³
		Mexico: STEL 2 mg/m ³

16. OTHER INFORMATION	

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



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

Chronic Hazard Star Legend * Chronic Health Hazard

Issuing Date: 22-Dec-2011

08605GUZ-ULVOC - GREEN 383, 34094 VHF 1.0 VOC ZENTHANE, MIL-DTL-53039E, TYPE IV

Revision Date: 15-Feb-2015

Revision Date: Revision Note 15-Feb-2015

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.

end