

Date Printed: 2/6/2007

Page: 1

Product Code: 07131GWU
Product Name: GREEN 383, 34094 WATER REDUCIBLE, MIL-DTL-64159, TYPE II, PART A

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

24-hour Emergency Phone: 800-424-9300

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

(See top of page)

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains one or more reported carcinogens or suspected carcinogens which are noted below and in Section 11.

This product contains a component or components that are Federally classified as a hazardous air pollutant.

Component/Exposure Limits	CAS#	% by Wt.
CHROMIC OXIDE	1308-38-9	9.604
ACGIH TLV/TWA - 0.5 MG/M3 as Cr		
OSHA PEL - 0.5 MG/M3 as Cr		
OTHER INFORMATION: 68% of chromic oxide is Trivalent Chrome the balance is oxide.		
COBALT CHROMITE GREEN PIGMENT	68187-49-5	7.168
ACGIH TLV/TWA - 0.5 MG/M3 for Cr (III) ; 0.02 MG/M3 for Co		
OSHA PEL - 0.5 MG/M3 for Cr (III) ; 0.02 MG/M3 for Co		
OTHER INFORMATION - Cobalt and cobalt compounds are listed by IARC as possibly carcinogenic to humans (GROUP 2B). See section 11 for more information. This compd. is formed by high temp. calcination, therefore, it does not necessarily have any of the properties of its component metals. Contains Antimony Oxide:		
OSHA PEL - 0.5MG/M3 for Sb		
ACGIH TLV - 0.5MG/M3 for Sb		
(Contains 60% Chrome III, 17% Zinc, 14% Cobalt, 1% Antimony)		
N-METHYL-2-PYRROLIDINONE	872-50-4	4.22
ACGIH TLV/TWA - 100 PPM (MFR's limit)		
OSHA PEL - Not Established		

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW:**

Harmful if inhaled. May cause the following effects:
Nose, throat and respiratory tract irritation. Allergic respiratory reaction.
May cause lung damage. Eye and skin irritation. Allergic skin reaction.

EYE CONTACT:

Can cause irritation.

Date Printed: 2/6/2007

Page: 2

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SKIN CONTACT:

Can cause irritation. May cause defatting of the skin.
Prolonged or repeated skin contact may cause dermatitis.

PRIMARY ROUTES OF ENTRY:

Dermal and inhalation.

INGESTION:

If swallowed, consult a physician immediately.

INHALATION:

Prolonged inhalation may cause headache, nausea. Mists can irritate respiratory passages.

CHRONIC INFORMATION:

See Section 11.

CARCINOGENICITY:

See Section 11.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Asthma and other respiratory ailments; chemical sensitization.

4. FIRST AID MEASURES

EYE CONTACT:

Flush immediately with large amounts of running water for at least 15 minutes while lifting eyelids. Take to a physician for medical treatment.

SKIN CONTACT:

Wash affected areas with soap and water. Remove contaminated clothing and wash before reuse. Consult a physician if irritation develops or persists.

INGESTION:

If swallowed, CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

INHALATION:

Remove from exposure. Restore breathing. Keep warm and quiet. Notify a physician.

Date Printed: 2/6/2007

Page: 3

Product Code: 07131GWU
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5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION PROPERTIES:

FLASH POINT (deg. F):

>201

METHOD:

Tag Closed Cup

FLAMMABLE LIMITS % :

Lower limit: 1.3

Upper limit: 9.5

AUTOIGNITION TEMPERATURE:

N/A

EXTINGUISHING MEDIA:

Alcohol foam, water fog, carbon dioxide. Foam supplier should be consulted regarding foam type and delivery rates.

FIREFIGHTING PROCEDURES AND EQUIPMENT:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flames. Closed container may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near product container (even empty) because product (even residue) can ignite explosively. Full protective equipment including self-contained breathing apparatus should be worn.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED :

Evacuate all non-essential personnel and remove all sources of ignition (flames, hot surfaces, electrical, static and frictional sparks). Ventilate area. Equip clean-up crew with appropriate protective equipment. Avoid breathing vapors. Avoid skin contact. Prevent entry into drains, sewers and waterways. Notify appropriate authorities if necessary. Contain and remove with inert absorbent and nonsparking tools.

7. HANDLING AND STORAGE

HANDLING:

Date Printed: 2/6/2007

Page: 4

Product Code: 07131GWU
Product Name: GREEN 383, 34094 WATER REDUCIBLE, MIL-DTL-64159, TYPE II, PART A

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

24-hour Emergency Phone: 800-424-9300

Use only with adequate ventilation. Avoid prolonged breathing of vapors. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates that vapor/mist levels are below applicable exposure limits. Follow respirator manufacturer's directions for use. Use grounding and bonding connection when transferring material to prevent static discharge, fire or explosion. Avoid free fall of liquid in excess of a few inches. Use sparkproof tools and explosion proof equipment.

STORAGE:

Do not store above 120 F or below 32 F. Store large quantities in buildings designed to comply with OSHA's 29 CFR 1910.106. Keep away from heat, sparks and open flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below current applicable OSHA safety and health requirements in the mixing, application and curing areas; and to remove decomposition products during welding and flame cutting on surfaces coated with this product.

RESPIRATORY PROTECTION:

When spray applied and when used in limited ventilation areas, wear a NIOSH/MSHA approved organic vapor/particulate respirator designed to remove a combination of particulate, gas and vapor. When used in confined areas or poorly ventilated areas, use a NIOSH/MSHA approved air line type respirator or hood. During sanding or grinding operations, use a NIOSH approved particulate respirator to remove solid airborne particles of sanding dust. Use NIOSH approved respirators when flame cutting, welding or hazing material coated with this product. Observe OSHA regulations for respirator use (29 CFR 1910.134). Air monitoring of the workplace may be required to determine appropriate respirator selection.

EYE PROTECTION:

Use safety eyewear with splash guards or side shields.

SKIN PROTECTION:

It is good industrial hygiene practice to minimize skin

Date Printed: 2/6/2007

Page: 5

Product Code: 07131GWU
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contact. Chemical resistant gloves are required for prolonged or repeated contact. An apron may be appropriate to protect against skin contact. Prevent prolonged skin contact with contaminated clothing. Wash contaminated clothing before reuse.

OTHER PROTECTIVE EQUIPMENT AND GUIDLINES:

Safety showers and eye wash stations should be available.
Educate and train employees in the safe use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES**PHYSICAL STATE:**

Liquid.

APPEARANCE:

Opaque.

ODOR:

Slight Ammonia Odor.

VOC (LB/GL) :

1.32 lb/gl

VOC (grams/liter) :

158 g/l

WEIGHT PER GALLON:

10.687 lb/gl

SPECIFIC GRAVITY:

1.2835

%EXEMPT SOLVENT by WEIGHT:

46.415

%EXEMPT SOLVENT by VOLUME:

59.712

BOILING POINT (deg. F) :

390

WATER SOLUBILITY:

Appreciable.

pH:

8.4

FREEZING POINT (deg. F) :

32

10. STABILITY AND REACTIVITY**STABILITY:**

Stable under normal conditions.

HAZARDOUS POLYMERIZATION:

Will not occur.

Date Printed: 2/6/2007

Page: 6

Product Code: 07131GWU
Product Name: GREEN 383, 34094 WATER REDUCIBLE, MIL-DTL-64159, TYPE II, PART A

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

24-hour Emergency Phone: 800-424-9300

HAZARDOUS DECOMPOSITION PRODUCTS:

May produce hazardous fumes when heated to decomposition as in welding. Fumes may contain the following:
Carbon Monoxide, Carbon Dioxide and other toxic vapors depending upon the temperature reached.

INCOMPATIBILITIES (MATERIALS TO AVOID):

Avoid any materials that react with water.

11. TOXICOLOGICAL INFORMATION**ACUTE EFFECTS:**

Cobalt Chromite Green Pigment:

LD50 Oral Rat = >10,000 mg/kg

LD50 Inhalation Rat = N/A

Sensitizing = None expected

Has not been tested as a whole for acute effects.

CHRONIC EFFECTS:

Some reports have associated repeated and prolonged contact with Trivalent Chrome to dermatitis. As noted by the American Conference of Governmental Industrial Hygienists (ACGIH) in their publication "Documentation of the Threshold Limit Values", repeated and prolonged exposures to Trivalent Chrome compounds may cause delayed effects involving the respiratory system.

Prolonged or repeated skin contact causes skin irritation and red, pimply skin eruptions or lesions referred to as "antimony measles". Irritation is aggravated when skin surface is moist as when perspiring. Chronic inhalation has resulted in benign pneumoconiosis.

May contain antimony oxide which may cause coughing and rhinitis following breathing of dust.

Has not been tested as a whole for acute effects.

CARCINOGENICITY:

NTP, IARC and ACGIH found that "there is sufficient evidence for the carcinogenicity of Chromium and certain Chromium compounds both in humans and in experimental animals". The Chromium compounds that are considered carcinogenic are hexavalent Chromium compounds. This product contains a trivalent Chromium compound. It is not specifically listed as a carcinogen by NTP, IARC or ACGIH.

The Cobalt compound in this product has not been specifically identified as causing cancer in humans or animals. However, IARC has listed "Cobalt and Cobalt

Date Printed: 2/6/2007

Page: 7

Product Code: 07131GWU
Product Name: GREEN 383, 34094 WATER REDUCIBLE, MIL-DTL-64159, TYPE II, PART A

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24-hour Emergency Phone: 800-424-9300

compounds" as possibly carcinogenic (group 2B) based upon laboratory animal studies.
NTP, IARC and ACGIH found that "there is sufficient evidence for the carcinogenicity of Chromium and certain Chromium compounds both in humans and in experimental animals". The Chromium compounds that are considered carcinogenic are hexavalent Chromium compounds. This product contains a trivalent Chromium compound. It is not specifically listed as a carcinogen by NTP, IARC or ACGIH.
IARC has listed antimony oxide as Group 2B, probable human carcinogen. A long-term inhalation study indicated antimony oxide may have caused malignant lung tumors in laboratory rats.

Has not been tested as a whole for carcinogenicity effects.

MUTAGENICITY:

Has not been tested as a whole for mutagenicity effects.

REPRODUCTIVE EFFECTS:

Has not been tested as a whole for reproductive effects.

DEVELOPMENTAL EFFECTS:

Has not been tested as a whole for developmental effects.

12. ECOLOGICAL INFORMATION**ECOLOGICAL EFFECTS:**

Has not been tested as a whole for ecological effects.

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHODS:**

Recycle, fuel blend or incinerate.
Dispose of in accordance with applicable laws and regulations. It is the responsibility of the owner of the waste to dispose of it properly. Laboratory analysis is recommended to profile the waste for proper disposal determination.

U.S E.P.A WASTE NUMBER AND DESCRIPTION:

Not listed.
D007 HAZARDOUS WASTE, LIQUID, N.O.S. (CHROMIUM)

Date Printed: 2/6/2007

Page: 8

Product Code: 07131GWU
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HAZARDOUS WASTE CHARACTERISTICS:

None known.

14. TRANSPORT INFORMATION

UN NUMBER:

UN number is not applicable.

DOT PROPER SHIPPING NAME:

Paint

DOT HAZARD CLASS:

Not regulated by current DOT statutes.

DOT LABEL:

Not regulated.

DOT PACKAGING GROUP:

Unregulated

U.S POSTAL SERVICE:

Will not handle.

15. REGULATORY INFORMATION

(Not meant to be all inclusive - selected regulations represented)

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#1308-38-9 Chrome Oxide
Contains 68% Trivalent Chrome, the balance is oxide.
CAS#68187-49-5 Cobalt Chromite Pigment
Contains 60% Chrome III, 17% Zinc, 14% Cobalt, 1% Antimony
CAS#872-50-4 Methylpyrrolione

TSCA STATUS:

All ingredients are listed on the TSCA inventory.

STATE REGULATIONS:

This product may contain chemicals that fall under individual state Right-to-Know regulatory requirements. See Section 2 for material listings. For details on regulatory requirements, contact the appropriate agency in your state.

Date Printed: 2/6/2007

Page: 9

Product Code: 07131GWU
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24-hour Emergency Phone: 800-424-9300

16. OTHER INFORMATION

Date of issue: 2/6/2007

Last Revision Date: 02/05/07

HMIS Information-

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 1

PERSONAL PROTECTIVE EQUIPMENT:

DISCLAIMER:

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