

SECTION 1 IDENTIFICATION

Product Name SENTINEL® PVC P150 HFB Copper Art®

Restrictions None

Manufacturer DERBIGUM Americas, Inc

Address 4821 Chelsea Avenue

Kansas City, MO 64130

Phone Number (800) 727-9872

Emergency Number (800) 424-9300 (CHEMTREC)

SECTION 2 HAZARDS

GHS Classification As defined in the OSHA Hazard Communication Standard, 29 CFR 1910,1200, the

products listed below are considered articles and do not require an SDS. In addition, articles are not included in the scope of the Globally Harmonization System (GHS). As such, the GHS labeling elements are not included on this SDS. All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard or GHS labeling elements, DERBIGUM would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and be made available for employees and other users of this product. In addition, the recommendations for handling

and use of these products should be included in worker training programs.

Precautionary Statements P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from open flames. - NO SMOKING

P260 - Do not breathe fume, gas, vapors

P264 - Wash hands, forearms and face thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release into the environment P280 - Wear protective gloves and clothing

Response P301+P330+P331 - If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - If on skin (or hair). Take off immediately all contaminated

clothing. Rinse skin with water/shower

P303+P340 - If inhaled, remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P314 - Get medical advice/attention if you feel unwell

P370+P378 - In case of fire: Use carbon dioxide (CO₂), foam, dry extinguishing

powder to extinguish

Storage P403+P235 - Store in well-ventilated place. Keep cool

Disposal P501 - Dispose of contents and/or container in accordance with local, regional and

national regulations

ABBREVIATION KEY



SECTION 3 COMPOSITION

Chemical Composition

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Antimony trioxide	1309-64-4	1 - 5
Copper, powder ¹	7440-50-8	1 - 5
Titanium Dioxide ¹	13463-67-7	1 - 5
Carbon Black ¹	1333-86-4	<2

Note: The above components and their percentages are provided for health and safety purposes, ONLY. This document should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

SECTION 4 FIRST AID MEASURES

Eyes If foreign matter enters eyes, immediately flush with large amounts of potable water for

at least 15 minutes or until irritation subsides. Get medical attention if irritation persists.

Skin Remove contaminated clothing and wash with soap and water.

Inhalation Remove affected person from source of exposure. If not breathing, institute

cardiopulmonary resuscitation (CPR). If breathing is difficult, give oxygen.

Get medical attention.

First-Aid, IngestionConsult a physician if unusual reaction is noted. Product is not intended nor is it

likely to be ingested or eaten.

Symptoms, Acute & Delayed

Immediate Medical Attention

Refer to Section 11 - Toxicological Information

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

SECTION 5 FIRE FIGHTING MEASURES

Flash Point Not Available

Hazardous Products of Combustions

Hydrogen Chloride gas, Carbon Monoxide, Carbon Dioxide.

Extinguishing Media Dry chemical, Carbon Dioxide, water spray or foam.

Protection GearDo not enter fire area without proper protective equipment, including

respiratory protection.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment as required during use. Evacuate unnecessary

personnel. Avoid breathing dust/fumes/gas/mist/vapors/spray during hot-air welding.

Environmental Precautions

Method and Materials for Containment & Clean Up

N/A solid sheeting N/A solid sheeting

ABBREVIATION KEY

¹ Component is not likely to occur above the limits of exposure considering its incorporated into the mixture and/or provided use.



SECTION 7 HANDLING AND STORAGE

HandlingUse this product with adequate ventilation. Avoid breathing dusts or fumes generated

from cutting or heating this material. Wash thoroughly after handling. Use personal

protective equipment as described in Section 8.

Storage Store indoors in a cool, dry, well-ventilated area. Do not handle or store near an open

flame, heat or other sources of ignition. This product will react with strong oxidizing

agents, reducing agents, strong acids and alkali

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure Limits

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH	
Antimony Trioxide	1309-64-4	0.5 mg/m³ TWA	0.5 mg/m³ TWA	0.5 mg/m³ TWA	
Copper, powder	7440-50-8	1 mg/m³ TWA	1 mg/m³ TWA	1 mg/m³ TWA	
Carbon Black	1333-86-4	3.5 mg/m³ TWA	3.0 mg/m³ TWA	3.5 mg/m³ TWA	
Titanium Dioxide	13463-67-7	15 mg/m³ TWA	10 mg/m³ TWA	N/A	

PERSONAL PROTECTIVE EQUIPMENT

Pictographs







Eyes/Face Safety glasses with side shields

Follow the national guidelines concerning the use of protective eye wear.

Hand Protective Gloves

Leather or cotton gloves may be worn to prevent skin contact and irritation.

Skin/Body Normal work clothing (long sleeved shirts, long pants and smooth bottom work

shoes) is recommended.

Inhalation Use NIOSH or MSHA approved respiratory protective equipment when airborne

exposure limits are exceeded.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance variable in color, depending on the composition

Odor Characteristic odor
Odor Threshold No data available
pH No data available
Relative Evaporation Rate No data available
Melting Point No data available
Boiling Point No data available
Flash Point No data available

Auto-ignition Temperature 350 °C

ABBREVIATION KEY

NIOSH = National Institute for Occupational Safety
OSHA = Occupational Safety & Health Administration

ACGIH = American Conference of Governmental Industrial Hygiene MSHA = Mine Safety and Health Administration

TLV = Threshold Limit Value
TWA = Time-Weighted Average

= Permissible Exposure Level

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

PEL



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Decomposition Temperature No data available

Specific Gravity ($H_20 = 1$) 1.2 - 1.3

Vapor pressureNo data availableVapor Density (AIR=1)No data availableSolubility in WaterInsoluble

SECTION 10 STABILITY AND REACTIVITY

Stability Stable at room temperature in closed containers under advised storage and

handling conditions.

Reactivity Upon combustion CO and CO₂ are formed

Conditions to AvoidStrong oxidizers, no spark or open flame, direct sunlight and high temperatures

Hazardous Decomposition Carbon monoxide, carbon dioxide, hydrogen sulfide and sulfur dioxide

Hazardous Polymerization Will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Eyes

Acute (*Immediate*) Mechanical irritation may occur in contact with particles.

Chronic (Delayed) No data available

Skin

Acute (Immediate) May cause irritation to the skin.

Chronic (Delayed) No data available

Inhalation

Acute (Immediate) May cause irritation to the respiratory tract.

Chronic (Delayed) No data available

Ingestion

Acute (Immediate) Product is not intended nor is it likely to be ingested or eaten.

Chronic (Delayed) No data available

Component Analysis

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/L)
Antimony trioxide	1309-64-4	>34,600 (rat)	>8,300 (rabbit)	> 5.2 (rat) 4 hr
Carbon Black	1333-86-4	>8,000 (rat)	N/A	N/A
Titanium Dioxide	13463-67-7	>2,000 (rat)	N/A	> 5.09 (rat) 4 hr
Copper, powder	7440-50-8	>472 (rat)	N/A	> 0.73 (rat) 4 hr

ABBREVIATION KEY



SECTION 11 TOXICOLOGICAL INFORMATION

Antimony trioxide (1309-64-4) **Component Carcinogenicity**

IARC: Group 2B - Possible Carcinogen

Titanium dioxide (13463-67-7)

IARC: Group 2B - Possible Carcinogen

Carbon black (1333-86-4)

IARC: Group 2B - Possible Carcinogen

Carcinogenicity According to IARC, No significant exposure to Antimony trioxide, Titanium dioxide

and Carbon black should occur because these components are bound in the

polymer matrix and dust exposure would not be expected

Mutagenicity Based on available data, the classification criteria are not met.

STOT Single Exposure Based on available data, the classification criteria are not met.

STOT Repeated Exposure Based on available data, the classification criteria are not met.

Eco toxicity

COMPONENT	CAS NUMBER	FISH LC50 (mg/L)	DAPHNA EC50 (mg/L)	ALGAE EC50 (mg/L)	
Antimony trioxide	1309-64-4	>14.4 (fathead minnow) 96 Hours	>69 (Water flea) 48 Hours	>36.6 (algae) 72 hours	
Carbon Black	1333-86-4	>1,000 (zebra fish) 96 Hours	>5,600 (Water flea) 24 Hours	>10,000 (algae) 72 Hours	
Copper, powder	7440-50-8	0.15 (rainbow trout) 96 Hours	.03 (Water flea) 48 Hours	0.0426-0.0535 (algae) 72 Hours	

No Data Persistence & Degradability Soil Absorption/Mobility No Data

Ozone-Depletion Potential This product neither contains, nor was manufactured with a Class I or Class II ODS

as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B)

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods: The transportation, storage, treatment and dispose of this waste must be conducted

in accordance with all applicable federal, state and local regulations.

SECTION 14 TRANSPORT INFORMATION

Transportation Regulations This product is not regulated as a hazardous material in transportation.



SECTION 15 REGULATORY INFORMATION

TSCA Inventory Components are listed **DSL Inventory** Components are listed

Sara 302 None

Sara 304 Antimony trioxide (1309-64-4); 1,000 lb

Sara 311/312 Categories Chronic Health Hazard

Antimony trioxide (1309-64-4), Copper, powder (7440-50-8) **Sara 313**

Clean Air Act This product does not contain any hazardous air pollutants (HAP), as defined by

the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

CA Proposition 65 WARNING: This product can expose you to chemicals including Titanium dioxide,

Carbon black and Antimony trioxide which are known to the State of California to

cause cancer. For more information, go to www.P65Warnings.ca.gov.

Right to Know States

COMPONENT	CAS NUMBER	MA	MN	ИЛ	PA	RI
Antimony Trioxide	1309-64-6	Yes	No	Yes	Yes	Yes
Copper powder	7440-50-8	Yes	Yes	Yes	Yes	Yes
Carbon Black	1333-86-4	Yes	No	Yes	Yes	Yes
Titanium Dioxide	13463-67-7	Yes	No	Yes	Yes	No

SECTION 16 OTHER INFORMATION

Preparation Date January 2021 **Revision Date** January 2022 **Summary of Changes** Branding update

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= Domestic Substances List (Canada)

available from Performance Roof Systems.