

P R O D U C T

4.4.9

Data Sheet

MANUFACTURERS OF AUTOMOTIVE AND INDUSTRIAL COATINGS

PRODUCT	PTM4307
RESIN TYPE	POLYESTER TGIC
COLOR	TITANIUM
60 Degree GLOSS	80%+
DESCRIPTION	A high gloss powder coating recommended for use on cold rolled steel for interior or exterior applications.
SPECIFIC GRAVITY	1.32 ± 0.05 g/cm
CURE SCHEDULE	10 min. at 400° F peak metal temperature minimum.
FILM THICKNESS	2.0 - 4.0 mils recommended
IMPACT RESISTANCE	160 in-lbs
PENCIL HARDNESS	2H
STORAGE STABILITY	Minimum 6 months at 80°F

All testing performed on 22 gauge Bonderite 1,000 panels at 2.0 mils

POWDER COATINGS

LIMITED WARRANTY POLICY: Seibert Powder Coatings (Seller) guarantees that all products delivered to Buyer manufactured by Seller, meet Seller's applicable current published quality standards, provided that such products are in unopened containers filled at its factory. Because Seller cannot control surface preparation, application procedures, and curing methods employed by Buyer, Seller's liability will not extend beyond supplying materials of the same or equivalent formulation, at Seller's option, to replace products not conforming to its currently published quality standards. These products are not to be used until the Buyer has read and fully understood current Material Safety Data Sheets (MSDS), and that Buyer, upon opening and using Seller's product, warrants by such opening, that the Buyer has completely read, fully understands, and will comply with the requirements contained in applicable MSDS materials. Seller will not be liable for any injuries, losses, or damages resulting either directly or indirectly from or as a result of Buyer's use of Seller's product. Because the Buyer decides appropriateness of Seller's product for Buyer's use, Buyer assumes all risks and liabilities related to the application of Seller's product.

EXCEPT AS PROVIDED HEREIN, SEIBERT POWDER COATINGS MAKES NO EXPRESS WARRANTIES RELATING TO ITS PRODUCTS, AND DISCLAIMS ALL WARRANTIES RELATING TO THEIR APPLICATION, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES.

Seibert Powder Coatings · 11110 Berea Rd. · Cleveland, OHIO 44102 · (216) 631-6211

M A T E R I A L S A F E T Y D A T A S H E E T

TITANIUM

Page: 1

PRODUCT NAME: TITANIUM
PRODUCT CODE: PTM 4307

HMIS CODES: H F R P
1 1 0 E

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: Seibert Powder Coatings
ADDRESS : 11110 Berea Road

Cleveland, Ohio 44102

EMERGENCY PHONE : 800-424-9300 DATE PRINTED : 10/26/06
INFORMATION PHONE : 216-631-2002

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	WEIGHT PERCENT
1,3,5 TRIGLYCIDYL ISOCYANURATE	245162-9	5% TO 10%
ACGIH TLV (TWA) 0.05 MG/M3		
TITANIUM DIOXIDE	13463-67-7	0% TO 5%
ACGIH TLV/TWA 10 MG/M3 TOTAL DUST		
OSHA PEL/TWA 15 MG/M3 TOTAL DUST, 5MG/M3 RESPIRABLE		
* ALUMINUM	742990-5	0% TO 5%
ACGIH/TLV TWA 15mg/M3		
OSHA PEL 15mg/M3		

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: N/A SPECIFIC GRAVITY (H2O=1): > 1.0
VAPOR DENSITY: Heavier than air.
EVAPORATION RATE: (n-Butyl acetate = 1): < 1.0
COATING V.O.C.: 0.00 lb/gl FORMULA V.O.C.: 000 lb/gl
SOLUBILITY IN WATER: Non Soluble
APPEARANCE AND ODOR: Dry powder with a slight nonoffensive odor.

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: NOT APPLICABLE METHOD USED: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 40 G/M UPPER: N/A

EXTINGUISHING MEDIA: Foam, CO2, dry chemical, water fog.

SPECIAL FIREFIGHTING PROCEDURES

Respiratory equipment should be worn to avoid inhalation of concentrated vapors
Water should not be used except as fog to keep nearby containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dust can form explosive mixture in air.

===== SECTION V - REACTIVITY DATA =====

M A T E R I A L S A F E T Y D A T A S H E E T

TITANIUM

Page: 2

STABILITY: Stable

CONDITIONS TO AVOID

Strong alkalis, nitrogen peroxide, sodium, potassium and other oxidizers and reactive metals.

INCOMPATIBILITY (MATERIALS TO AVOID)

Alkaline materials, strong acids and oxidizing materials.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Carbon monoxide, carbon dioxide, oxides of nitrogen, when welding, brazing or flame cutting on surfaces coated with this product.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

===== SECTION VI - HEALTH HAZARD DATA =====

PRODUCT SPECIFIC HEALTH INFORMATION

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INHALATION: May cause mechanical irritation and dryness.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Mild irritation, tearing or redness may develop.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

SKIN CONTACT: Can dry and defat skin causing cracks, irritation, and dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

INGESTION: Can cause gastrointestinal irritation, vomiting, nausea, and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC)

EYE CONTACT: Mild irritation, tearing or redness.

SKIN CONTACT: Can dry and defat skin causing cracks, irritation, and dermatitis.

INGESTION: Can cause gastrointestinal irritation, vomiting, nausea, & diarrhea. No chronic health effects.

WARNING: This product contains Triglycidyl Isocyanurate which is an eye, skin and respiratory irritant, and which may cause sensitization, dermatitis and mutagenic effects.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No
No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES

INHALATION (Over-Exposure): Move person to fresh air.

EYE CONTACT: Flush with large quantities of water for 15 minutes, lifting upper and lower lids to ensure even flushing.

M A T E R I A L S A F E T Y D A T A S H E E T

TITANIUM

Page: 3

SKIN CONTACT: Wash thoroughly with soap and water and see a doctor.

INGESTION: Do not induce vomiting, can cause chemical pneumonitis and pulmonary edema. Contact physician immediately.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Provide good ventilation. Sweep up and dispose of in appropriate container in accordance with local, county, state and Federal regulations.

WASTE DISPOSAL METHOD

Collect spilled materials into appropriate containers. Consult local, state & federal hazardous waste regulations before disposing into approved waste landfills. Obey relevant laws.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames. For greater shelf life, do not store above 70 deg. F.

OTHER PRECAUTIONS

Ground containers while pouring.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

When spraying this material use a NIOSH approved respirator suitable to keep airborne dust concentrations below the time-weighted threshold limit values. When using in poorly ventilated and confined spaces, use a fresh air supplying respirator or a self-contained breathing apparatus.

VENTILATION

General mechanical ventilation or local exhaust should be suitable to keep dust concentrations below TLV. Ventilation equipment must be explosion proof.

PROTECTIVE GLOVES

Use latex gloves for skin protection.

EYE PROTECTION

Use chemical safety glasses with side shields, goggles, or faceshields for eye protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

None

WORK/HYGIENIC PRACTICES

Wash hands before eating, drinking, chewing, smoking, or applying makeup.

===== SECTION IX - TRANSPORT INFORMATION =====

DOT/ICAO/IATA STATUS: NOT REGULATED

===== SECTION X - DISCLAIMER =====

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE
HOWEVER SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE
NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY THE USE
OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL
APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. AS WITH ALL
CHEMICALS, KEEP AWAY FROM CHILDREN AND ANIMALS. FOR INDUSTRIAL USE ONLY.