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CCC

MATERIAL SAFETY DATA SHEET

SPEC./MSDS NUMBER DATE 10-30-85

MSDS 1044 (3/85)

PRODUCT IDENTIFICATION

TRADE NAME: Rutile powdered (light)  
 MANUFACTURER'S NAME: Ceramic Color & Chemical Mfg. Co.  
 ADDRESS (STREET): 13th Street & 11th Avenue  
 CITY: New Brighton, PA STATE: ZIP: 15066  
 CHEMICAL STRUCTURE: TiO<sub>2</sub>  
 PHONE NUMBER (EMERGENCY): 412-846-4000  
 CAS NUMBER: 134663-67-7  
 GENERIC NAME: Rutile Ore

I. PRODUCT INGREDIENTS

CHEMICAL AND/OR COMMON NAME	CAS NUMBER	%	TLV/PEL
TiO <sub>2</sub> Titanium Dioxide	134663-67-7	97.0 Min	10mg/m <sup>3</sup>
SiO <sub>2</sub> Free Silica (Quartz)	1480-60-7	.95 Max	10mg/m <sup>3</sup>
ZrO <sub>2</sub> Zirconium Oxide	14940-68-2	1.0 Max	5mg/m <sup>3</sup>
Fe <sub>2</sub> O <sub>3</sub> Iron Oxide	1309-37-1	1.0 Max	5mg/m <sup>3</sup>
Al <sub>2</sub> O <sub>3</sub> Aluminum Oxide	1344-28-1	.5 Max	10mg/m <sup>3</sup>

II. PHYSICAL DATA

BOILING POINT Not Applicable	VAPOR PRESSURE Not Applicable	SPECIFIC GRAVITY 4.0 - 4.6	MELTING POINT 1640 C
SOLUBILITY IN WATER Insoluble	VAPOR DENSITY (AIR = 1) Will not evaporate	PERCENT VOLATILE Not Volatile	EVAPORATION RATE Not Applicable

APPEARANCE AND ODOR

III. FIRE AND EXPLOSION DATA

FLASH POINT Will not burn	FLAMMABLE LIMITS Not applicable	LEL N/A	UEL N/A
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EXTINGUISHING MEDIA: Not flammable

SPECIAL FIREFIGHTING PROCEDURES: None, use whatever procedures are necessary for surrounding products

UNUSUAL FIRE OR EXPLOSION HAZARDS: Does not burn or explode.

IV. HEALTH HAZARD INFORMATION

HAZARD BY ROUTES OF EXPOSURE (Indicate chronic and acute)

INHALATION: Deposits on mucous membranes - nuisance dust.

INGESTION: No adverse effects are seen in animals after ingestion.

EYE: Irritant if particles lodge in eye, physical discomfort only.

SKIN CONTACT/ABSORPTION: Solid particles will not absorb.

SIGNS AND SYMPTOMS ASSOCIATED WITH EXPOSURE OVER TLV: No harmful effects are known to be caused by exposure of Titanium compounds above the published TLV limit.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: None known.

ANY OF PART I LISTED AS CARCINOGENS (NTP, IARC, OSHA): No part or ingredient listed as a carcinogen by IARC, NTP/ASHA or ACGIH

HEALTH HAZARD INFORMATION CONTINUED ON BACK