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MATERIAL SAFETY DATA

CAS NO. 13463-67-7
JANUARY 1991

PRODUCT IDENTIFICATION

TRADE NAME(S): UNITANE[®] Anatase Titanium Dioxide Pigment

CAS REGISTRY NUMBER: 13463-67-7

GRADE/PRODUCT DESIGNATION(S): [REDACTED]

SYNONYMS: [REDACTED] Anatase Pigment, Titania, Pigment White #6, Color Index No. 77891

CHEMICAL FAMILY: Inorganic metal oxide

MOLECULAR FORMULA: TiO₂

MOLECULAR WEIGHT: 79.9

MANUFACTURER: KEMIRA, INC., Savannah, Georgia 31404

EMERGENCY PHONE: 912-236-6171

PRODUCT INFORMATION PHONE: 800-4-KEMIRA

COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS #	APP. %	TWA/CEILING	REFERENCE
Titanium dioxide	013463-67-7	92 - 100	10 mg/M ³	ACGIH
Aluminum hydroxide	21645-51-2	0 - 8	None Established	OSHA/ACGIH
Silica, amorphous	7631-86-9	0 - 8	10 mg/M ³ 6 mg/M ³	ACGIH OSHA

HEALTH HAZARD INFORMATION

CARCINOGENICITY: None of the components of UNITANE[®] Titanium Dioxide is listed as a carcinogen by IARC, NTP, or OSHA.

EFFECTS OF OVEREXPOSURE

Exposure to this product for a short duration is not likely to cause adverse effects directly after exposure. Chronic overexposure to titanium dioxide may cause slight lung fibrosis. When titanium dioxide was fed to rats and mice for their lifetimes in a carcinogen bioassay, it was not carcinogenic. However, inhalation of titanium dioxide dusts at 50 times the nuisance dust level caused fibrosis and a slight increase in lung tumor incidence in laboratory rats.

SAFETY PRECAUTIONS: Avoid breathing dust. Use a dust filter respirator if exposure limits are exceeded.

EMERGENCY PHONE: 912/236-6171

FIRST AID MEASURES

INHALATION:	If a large amount of the dust is inhaled, remove the person to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, administer oxygen. Obtain medical assistance.
EYE CONTACT:	Immediately flush eyes with a large volume of water for at least 15 minutes. Obtain medical assistance.
SKIN CONTACT:	The pigment is not hazardous but washing the skin exposure areas after use is recommended.
INGESTION:	No specific action is recommended. Obtain medical assistance if necessary.

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT:	Not Applicable
FLAMMABLE LIMITS: (% By Volume)	Not Applicable
AUTOIGNITION TEMPERATURE	Not Applicable
DECOMPOSITION TEMPERATURE	Not Applicable
FIRE FIGHTING	Material will not burn

SPILL OR LEAK PROCEDURE

Shovel the material into an appropriate disposal container. Wash the area with water.

SHIPPING, HANDLING AND STORAGE INFORMATION

The material is not regulated as a hazardous material by the DOT or IMO.
The material is shipped in fifty (50) pound paper bags, fiber drums and bulk bags by truck and rail.
To insure the integrity of the product keep dry.

NFPA RATING:		HMIS RATING:	
Fire.....	0	Health	0
Health	0	Flammability	0
Reactivity	0	Reactivity	0
Special	-	Personal Protection	*

* Personal protection is determined by the consumer following the information provided in the EXPOSURE CONTROL INFORMATION section of this MSDS.

**EXPOSURE CONTROLS/
PERSONAL
PROTECTION
INFORMATION**

Engineering controls are not usually necessary, if good hygiene practices are strictly followed. Respiratory protection is generally not required during normal operations.

If exposure limits are exceeded NIOSH approved air purifying respirators with particulate filters should be used.

As in any industrial facility eye protection, safety glasses with side shields, should be worn.

**PHYSICAL AND
CHEMICAL
PROPERTIES**

APPEARANCE AND ODOR:	White Powder; Odorless
BOILING POINT:	4532-5432 F; 2500-3000 C
MELTING POINT:	3326-3362 F; 1830-1850 C
VAPOR PRESSURE:	Not Applicable
SPECIFIC GRAVITY:	3.9
VAPOR DENSITY:	Not Applicable
% VOLATILE (By Wt.):	< 2%
OCTANOL:H ₂ O PARTITION COEF.:	Not Available
pH:	Not Applicable
SATURATION IN AIR: (By Volume)	Not Applicable
EVAPORATION RATE:	Not Applicable
SOLUBILITY IN WATER:	Not Soluble

REACTIVITY DATA

STABILITY:	Stable
CONDITIONS TO AVOID:	None Known
POLYMERIZATION: CONDITIONS TO AVOID:	Will Not Occur None Known
INCOMPATIBLE MATERIALS:	No Specific Incompatibility
HAZARDOUS DECOMPOSITION PRODUCTS:	Material Will Not Decompose

**DISPOSAL
CONSIDERATIONS**

Any disposal must be made within Federal, State and Local regulations.

**REGULATORY
INFORMATION**

TSCA INVENTORY:	Reported/Included
SARA TITLE III:	Not Listed
CANADIAN WHMIS CLASSIFICATION:	Not Regulated
CANADIAN DOMESTIC SUBSTANCE LIST (DSL)	Not Listed
NIOSH REGISTRY NO.:	XR2275000

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