

SPEX INDUSTRIES INC -- TITANIUM OXIDE -- 6810-00-664-6621

=====
Product Identification
=====

Product ID:TITANIUM OXIDE

MSDS Date:05/14/1991

FSC:6810

NIIN:00-664-6621

MSDS Number: BNQCB

=== Responsible Party ===

Company Name:SPEX INDUSTRIES INC

Address:3880 PARK AVE

City:EDISON

State:NJ

ZIP:08820-3012

Country:US

Info Phone Num:201-549-7144/FAX 201-494-1747

Emergency Phone Num:201-549-7144/800-424-9

300(CHEMTREC)

CAGE:07977

=== Contractor Identification ===

Company Name:SPEX CERTIPREP INC

Address:203 NORCROSS AVE

Box:City:METUCHEN

State:NJ

ZIP:08840

Country:US

Phone:732-549-7144

CAGE:07977

=====
Composition/Information on Ingredients
=====

Ingred Name:TITANIUM DIOXIDE

CAS:13463-67-7

RTECS #:XR2275000

Fraction by Wt: 100.0%

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

=====
Hazards Identification
=====

LD50 LC50 Mixture:TLV IS

10 MG/M3 AS TWA.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE- TITANIUM DIOXIDE MAY BE HARMFUL IF INHALED, INGESTED, OR CONTACTED WITH THE EYE OR SKIN. INHALATION MAY BE IRRITATING TO THE LUNGS. SKIN OR EYE CONTACT MAY CAUSE IRRITATION. CHRONIC- IT IS AN EXPERIMENTAL CARCINOGEN.

Effects of Overexposure:TITANIUM DIOXIDE MAY BE HARMFUL IF INHALED, INGESTED, OR CONTACTED WITH THE EYE OR SKIN. INHALATION MAY BE IRRITATING TO THE LUNGS. SKIN OR EYE CONTACT MAY CAUSE IRRITATION. IT IS AN EXPERIMENTAL CARCINOGEN.

Medical Cond Aggravated by Exposure:PRE-EXISTING CONDITIONS MAY BE WORSEN.

=====
===== First Aid Measures =====

First Aid:GET MEDICAL ATTENTION. EYE/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:GET IMMEDIATE MEDICAL ATTENTION.

=====
===== Fire Fighting Measures =====

Flash Point:NOT COMBUSTIBLE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:MAY DECOMPOSE.

=====
===== Accidental Release Measures =====

Spill

Release Procedures:WEAR PROTECTIVE CLOTHING. EVACUATE AND VENTILATE AREA. SWEEP UP AND PLACE IN BAG, HOLD FOR PROPER DISPOSAL.

=====
===== Handling and Storage =====

Handling and Storage Precautions:STORAGE- KEEP IN A COOL, DRY AREA IN A TIGHTLY SEALED CONTAINER.

Other Precautions:DO NOT GENERATE DUST. AVOID BREATHING DUST. DO NOT GET IN EYE, ON SKIN OR ON CLOTHING. PROTECT CONTAINER AGAINST PHYSICAL DAMAGE. KEEP CONTAINER CLOSED. KEEP AWAY FROM

M REACH OF
CHILDREN.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE NORMALLY REQUIRED. IF DUSTY CONDITION, A
NIOSH APPROVED AIR SUPPLIED RESPIRATOR OR DUST RESPIRATOR IS
ADVISED.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO
MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:IMPERVIOUS

Eye Protection:SAFETY GLASSES

Other Protective Equipment:NORMAL WORK CLOTHING COVERING ARMS & LEGS.

Work Hygienic Practices:

OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:3317F,1825C

Spec Gravity:4.17

Solubility in Water:INSOLUBLE

Appearance and Odor:WHITE POWDER

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, STRONG ALKALIS, REDUCING AGENTS, METALS LIKE ALUMINUM,
MAGNESIUM, P

OTASSIUM, SODIUM, ZINC AND LITHIUM

Stability Condition to Avoid:FIRE

Hazardous Decomposition Products:TOXIC FUMES

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE
AND FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expre

ssly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.