Chem-Impex International Inc.

Tel: (630) 766-2112 E-mail: sales@chemimpex.com Shipping and Correspondence: 935 Dillon Drive Wood Dale, IL 60191 USA Fax: (630) 766-2218 Web site: <u>www.chemimpex.com</u> Manufacturing site: 825 Dillon Drive Wood Dale, IL 60191 USA

SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #:	35931
NAME:	Titanium(IV) fluoride
SYNONYMS:	Titanium tetrafluoride Titanium fluoride
24 HOUR EMERGENCY	(800) 535-5053(USA)
TELEPHONE:	352-323-3500 (INTERNATIONAL)
TO REQUEST AN MSDS:	(800) 869-9290
~	
CUSTOMER	(630) 766-2112
SERVICE:	

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS) ACUTE TOXICITY, ORAL (CATEGORY 4), H302 ACUTE TOXICITY, INHALATION (CATEGORY 4), H332 ACUTE TOXICITY, DERMAL (CATEGORY 4), H312

SKIN CORROSION (CATEGORY 1B), H314 SERIOUS EYE DAMAGE (CATEGORY 1), H318

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM



SIGNAL WORD

HAZARD STATEMENT(S)

H302 + H312 + H332	HARMFUL IF SWALLOWED, IN CONTACT WITH SKIN OR IF
	INHALED.
H314	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H318	CAUSES SERIOUS EYE DAMAGE.

PRECAUTIONARY STATEMENT(S)

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS	STRONG HYDROGEN FLUORIDE-RELEASER
	WASTE DISPOSAL PLANT.
P501	DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED
P405	STORE LOCKED UP.
P363	WASH CONTAMINATED CLOTHING BEFORE REUSE.
	POISON CENTER/DOCTOR.
	EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A
P310	MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND
P305 + P351 + P338 +	IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL
	POISON CENTER/DOCTOR.
1001 1010 1010	COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A
P304 + P340 + P310	IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP
	SHOWER.
1303 - 1301 - 1333	ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/
P303 + P361 + P353	IF ON SKIN (OR HAIR): REMOVE/ TAKE OFF IMMEDIATELY
P301 + P330 + P331	IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.
1501 - 1512 - 1550	FEEL UNWELL, RINSE MOUTH.
P301 + P312 + P330	IF SWALLOWED: CALL A POISON CENTER/DOCTOR IF YOU
r 200	PROTECTION/ FACE PROTECTION.
P271 P280	WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE
P271	USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.
1270	PRODUCT.
P264 P270	DO NOT EAT, DRINK OR SMOKE WHEN USING THIS
P260 P264	WASH SKIN THOROUGHLY AFTER HANDLING.
P260	DO NOT BREATHE DUST OR MIST.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF:	TiF ₄
MW:	123.86
CAS-NO.	7783-63-3
PURITY:	≥98% AT

HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION
Titanium(IV) fluoride		
	ACUTE TOX. 4; SKIN CORR.	<= 100 %
	1B; EYE DAM. 1; H302, H332,	
	H312, H314, H318	

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

SECTION 4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE	CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA
	SHEET TO THE DOCTOR IN ATTENDANCE. MOVE OUT OF
	DANGEROUS AREA.HYDROFLUORIC (HF) ACID BURNS
	REQUIRE IMMEDIATE AND SPECIALIZED FIRST AID AND
	MEDICAL TREATMENT. SYMPTOMS MAY BE DELAYED
	UP TO 24 HOURS DEPENDING ON THE CONCENTRATION
	OF HF. AFTER DECONTAMINATION WITH WATER,
	FURTHER DAMAGE CAN OCCUR DUE TO
	PENETRATION/ABSORPTION OF THE FLUORIDE ION.
	TREATMENT SHOULD BE DIRECTED TOWARD BINDING
	THE FLUORIDE ION AS WELL AS THE EFFECTS OF
	EXPOSURE. SKIN EXPOSURES CAN BE TREATED WITH A
	2.5% CALCIUM GLUCONATE GEL REPEATED UNTIL
	BURNING CEASES. MORE SERIOUS SKIN EXPOSURES
	MAY REQUIRE SUBCUTANEOUS CALCIUM GLUCONATE
	EXCEPT FOR DIGITAL AREAS UNLESS THE PHYSICIAN IS
	EXPERIENCED IN THIS TECHNIQUE, DUE TO THE
	POTENTIAL FOR TISSUE INJURY FROM INCREASED
	PRESSURE. ABSORPTION CAN READILY OCCUR
	THROUGH THE SUBUNGUAL AREAS AND SHOULD BE
	CONSIDERED WHEN UNDERGOING DECONTAMINATION.
	PREVENTION OF ABSORPTION OF THE FLUORIDE ION IN
	CASES OF INGESTION CAN BE OBTAINED BY GIVING
	MILK, CHEWABLE CALCIUM CARBONATE TABLETS OR
	MILK OF MAGNESIA TO CONSCIOUS VICTIMS.
	CONDITIONS SUCH AS HYPOCALCEMIA,
	HYPOMAGNESEMIA AND CARDIAC ARRHYTHMIAS

SHOULD BE MONITORED FOR, SINCE THEY CAN OCCUR AFTER EXPOSURE.

- IF INHALED IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.
- IN CASE OF SKINTAKE OFF CONTAMINATED CLOTHING AND SHOESCONTACTIMMEDIATELY. WASH OFF WITH SOAP AND PLENTY OF
WATER. CONSULT A PHYSICIAN.FIRST TREATMENT
WITH CALCIUM GLUCONATE PASTE.
- IN CASE OF EYERINSE THOROUGHLY WITH PLENTY OF WATER FOR ATCONTACTLEAST 15 MINUTES AND CONSULT A PHYSICIAN.
CONTINUE RINSING EYES DURING TRANSPORT TO
HOSPITAL.
- IF SWALLOWED DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

MOST IMPORTANTTHE MOST IMPORTANT KNOWN SYMPTOMS ANDSYMPTOMS ANDEFFECTS ARE DESCRIBED IN THE LABELLING (SEEEFFECTS, BOTH ACUTESECTION 2.2) AND/OR IN SECTION 11.AND DELAYEDSECTION 2.2) AND/OR IN SECTION 11.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED NO DATA AVAILABLE

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

SUITABLE	USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY
EXTINGUISHING MEDIA	CHEMICAL OR CARBON DIOXIDE.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	HYDROGEN FLUORIDE, TITANIUM/TITANIUM OXIDES
ADVICE FOR	WEAR SELF CONTAINED BREATHING APPARATUS FOR
FIREFIGHTERS	FIRE FIGHTING IF NECESSARY.

FURTHER INFORMATION NO DATA AVAILABLE

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES ENVIRONMENTAL	USE PERSONAL PROTECTIVE EQUIPMENT. AVOID DUST FORMATION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. AVOID BREATHING DUST. FOR PERSONAL PROTECTION SEE SECTION 8. DO NOT LET PRODUCT ENTER DRAINS.
PRECAUTIONS METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP REFERENCE TO OTHER SECTIONS	PICK UP AND ARRANGE DISPOSAL WITHOUT CREATING DUST. SWEEP UP AND SHOVEL. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL. FOR DISPOSAL SEE SECTION 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	AVOID CONTACT WITH SKIN AND EYES. AVOID FORMATION OF DUST AND AEROSOLS.FURTHER PROCESSING OF SOLID MATERIALS MAY RESULT IN THE FORMATION OF COMBUSTIBLE DUSTS. THE POTENTIAL FOR COMBUSTIBLE DUST FORMATION SHOULD BE TAKEN INTO CONSIDERATION BEFORE ADDITIONAL PROCESSING OCCURS. PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED. FOR PRECAUTIONS SEE SECTION 2.2.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE. MOISTURE SENSITIVE. KEEP IN A DRY PLACE. DO NOT STORE IN GLASS
SPECIFIC END USE(S)	Store at RT APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENT	CAS-NO.	VALUE	CONTROL PARAMETERS	BASIS
Titanium(IV) fluoride	7783-63-3	TWA	2.5 MG/M3	USA. OCCUPATIONAL EXPOSURE LIMITS (OSHA) - TABLE Z-1 LIMITS FOR AIR
	REMARKS	CAS NUMBER	 VARIES WITH CO	CONTAMINANTS OMPOUND
		TWA	2.5 MG/M3	USA. ACGIH THRESHOLD LIMIT VALUES (TLV)
		EXPOSURE INI	FOR WHICH THE DEX OR INDICES	RE IS A BIOLOGICAL (SEE BEI SECTION) AN CARCINOGEN
		PEL	2.5 MG/M3	CALIFORNIA PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS

COMPONENT	CAS-NO.	PARAMETERS	VALUE	BIOLOGICAL SPECIMEN	BASIS
Titanium(IV) fluoride	7783-63-3	FLUORIDE	2 MG/L		ACGIH - BIOLOGICAL EXPOSURE INDICES (BEI)
	REMARKS	PRIOR TO SHIF	T (16 HOURS		· · · ·
		FLUORIDE	3 MG/L		ACGIH - BIOLOGICAL EXPOSURE INDICES (BEI)
		END OF SHIFT (CEASES)	(AS SOON A	S POSSIBLE AF	TER EXPOSURE

EXPOSURE CONTROLS

APPROPRIATE	HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE
ENGINEERING	AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND
CONTROLS	AT THE END OF WORKDAY.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE	FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT FOR
PROTECTION	EYE PROTECTION TESTED AND APPROVED UNDER
	APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH
	(US) OR EN 166(EU).

SKIN PROTECTION	HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT
	TOUCHING GLOVE'S OUTER SURFACE) TO AVOID SKIN
	CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED
	GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE
	LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY
	HANDS.

FULL CONTACT MATERIAL: NITRILE RUBBER MINIMUM LAYER THICKNESS: 0.11 MM BREAK THROUGH TIME: 480 MIN MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)

SPLASH CONTACT MATERIAL: NITRILE RUBBER MINIMUM LAYER THICKNESS: 0.11 MM BREAK THROUGH TIME: 480 MIN MATERIAL TESTED:DERMATRIL (KCL 740, SIZE M)

IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374, CONTACT THE SUPPLIER OF THE CE APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY SPECIFIC USE SCENARIO.

BODY PROTECTION COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

RESPIRATORYWHERE RISK ASSESSMENT SHOWS AIR-PURIFYINGPROTECTIONRESPIRATORS ARE APPROPRIATE USE A FULLFACE PARTICLE
RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN 143) RESPIRATOR
CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF
THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A
FULL-FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS
AND COMPONENTS TESTED AND APPROVED UNDER
APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH
(US) OR CEN (EU).

CONTROL OFDO NOT LET PRODUCT ENTER DRAINS.ENVIRONMENTALEXPOSURE

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	White to off-white powder
ODOUR	NO DATA AVAILABLE
ODOUR THRESHOLD	NO DATA AVAILABLE
PH	NO DATA AVAILABLE
MELTING	> 400 °C
POINT/FREEZING POINT	
INITIAL BOILING POINT	284 °C
AND BOILING RANGE	
FLASH POINT	
EVAPORATION RATE	NO DATA AVAILABLE
FLAMMABILITY (SOLID,	NO DATA AVAILABLE
GAS)	
UPPER/LOWER	NO DATA AVAILABLE
FLAMMABILITY OR	
EXPLOSIVE LIMITS	
VAPOUR PRESSURE	NO DATA AVAILABLE
VAPOUR DENSITY	NO DATA AVAILABLE
RELATIVE DENSITY	2.80
WATER SOLUBILITY	NO DATA AVAILABLE
PARTITION COEFFICIENT:	NO DATA AVAILABLE
N- OCTANOL/WATER	
AUTO-IGNITION	NO DATA AVAILABLE
TEMPERATURE	
DECOMPOSITION	NO DATA AVAILABLE
TEMPERATURE	
VISCOSITY	NO DATA AVAILABLE
EXPLOSIVE PROPERTIES	NO DATA AVAILABLE
OXIDIZING PROPERTIES	NO DATA AVAILABLE

OTHER SAFETY INFORMATION

NO DATA AVAILABLE

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY	NO DATA AVAILABLE
CHEMICAL STABILITY	STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
POSSIBILITY OF HAZARDOUS REACTIONS	NO DATA AVAILABLE
CONDITIONS TO AVOID	DO NOT ALLOW WATER TO ENTER CONTAINER BECAUSE OF VIOLENT REACTION. REACTS DANGEROUSLY WITH GLASS.
INCOMPATIBLE MATERIALS	STRONG OXIDIZING AGENTS GLASS

HAZARDOUSHAZARDOUS DECOMPOSITION PRODUCTS FORMEDDECOMPOSITIONUNDER FIRE CONDITIONS. - HYDROGEN FLUORIDE,PRODUCTSTITANIUM/TITANIUM OXIDESOTHER DECOMPOSITION PRODUCTS - NO DATAAVAILABLEIN THE EVENT OF FIRE: SEE SECTION 5

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY	NO DATA AVAILABLE	
	INHALATION: NO DATA AVAILABLE	
	DERMAL : NO DATA AVAILABLE	
	NO DATA AVAILABLE	
SKIN CORROSION/IRRITATION	NO DATA AVAILABLE	
SERIOUS EYE DAMAGE/EYE IRRITATION	NO DATA AVAILABLE	
RESPIRATORY OR SKIN SENSITISATION	NO DATA AVAILABLE	
GERM CELL MUTAGENICITY	NO DATA AVAILABLE	
CARCINOGENICITY		
IARC:	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED	
NTP:	HUMAN CARCINOGEN BY IARC. NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.	
OSHA:	NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS ON OSHA S LIST OF REGULATED CARCINOGENS.	
REPRODUCTIVE TOXICITY	NO DATA AVAILABLE	
SPECIFIC TARGET ORGAN TOXICITY - SINGLE	NO DATA AVAILABLE	

TOXICITY - SINGLE EXPOSURE

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	NO DATA AVAILABLE
ASPIRATION HAZARD	NO DATA AVAILABLE
ADDITIONAL INFORMATION	RTECS: NOT AVAILABLE
	FLUORIDE ION CAN REDUCE SERUM CALCIUM
	LEVELS POSSIBLY CAUSING FATAL HYPOCALCEMIA.
	MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE
	OF THE MUCOUS MEMBRANES AND UPPER
	RESPIRATORY TRACT, EYES, AND SKIN, SPASM,
	INFLAMMATION AND EDEMA OF THE LARYNX, SPASM,
	INFLAMMATION AND EDEMA OF THE BRONCHI,
	PNEUMONITIS, PULMONARY EDEMA, BURNING
	SENSATION, COUGH, WHEEZING, LARYNGITIS,
	SHORTNESS OF BREATH, HEADACHE, NAUSEA
	TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL,
	PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE
	NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12. ECOLOGICAL INFORMATION

ΤΟΧΙCΙΤΥ	NO DATA AVAILABLE
PERSISTENCE AND DEGRADABILITY	NO DATA AVAILABLE
BIOACCUMULATIVE POTENTIAL	NO DATA AVAILABLE
MOBILITY IN SOIL	NO DATA AVAILABLE
RESULTS OF PBT AND VPVB ASSESSMENT	PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED
OTHER ADVERSE EFFECTS	NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

PRODUCT	OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO
	A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED
	PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE
	OF THIS MATERIAL.

CONTAMINATEDDISPOSE OF AS UNUSED PRODUCT.PACKAGING

SECTION 14. TRANSPORT INFORMATION

DOT (US) PROPER SHIPPING NAME:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (TITANIUM TETRAFLUORIDE)
UN NUMBER:	3260
CLASS:	8
PACKING GROUP:	II
REPORTABLE QUANTITY	
(RQ):	
POISON INHALATION	NO
HAZARD:	
IMDG	
PROPER SHIPPING NAME:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (TITANIUM TETRAFLUORIDE)
UN NUMBER:	3260
CLASS:	8
PACKING GROUP:	II
EMS-NO:	F-A, S-B
IATA	
PROPER SHIPPING NAME:	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (TITANIUM TETRAFLUORIDE)
UN NUMBER:	3260
CLASS:	8
PACKING GROUP:	II

SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS	NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.
SARA 313 COMPONENTS	THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

SARA 311/312 HAZARDS

ACUTE HEALTH HAZARD

MASSACHUSETTS RIGHT TO KNOW COMPONENTS NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

	CAS-NO.	REVISION DATE
Titanium(IV) fluoride	7783-63-3	06-01-2008

NEW JERSEY RIGHT TO KNOW COMPONENTS

CAS-NO. Titanium(IV) fluoride 7783-63-3 REVISION DATE 06-01-2008

CALIFORNIA PROP. 65 COMPONENTS

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE HARM.

SECTION 16. OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.		
H302 + H312 + H332	HARMFUL IF SWALLOWED, IN CONTACT WITH SKIN	
11011	OR IF INHALED.	
H314	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.	
H318	CAUSES SERIOUS EYE DAMAGE.	
MSDS LEGEND		
MW:	MOLECULAR WEIGHT	
MF:	MOLECULAR FORMULA	
VOC:	VOLATILE ORGANIC COMPOUNDS	
ACGIH:	AMERICAN CONFERENCE OF GOVERNMENENTAL INDUSTRIAL	
	HYGINISTS	
CAS:	CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER	
OSHA:	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	
PEL:	PERMISSIBLE EXPOSURE LIMIT (OSHA)	
TLV:	THRESHOLD LIMIT VALUE (ACGIH)	
IMPORTANT:		
THE INFORMATION A	BOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST	
	ENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF	
	R ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO	
	AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS	
	ROWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE	
	INFORMATION FOR THEIR PARTICULAR PURPOSES. IN NO EVENT SHALL CII BE LIABLE	
	SSES, OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR	
	CT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES,	
HOWSOEVER ARISING	G, EVEN IF CII HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH	

DAMAGES. VERSION: 3.1

REVISION DATE: 01/27/2017