

TITANIUM TETRAIODIDE (99+%)

Safety Data Sheet INTI071 Date of issue: 04/02/2015 Vers Version: 1.0

SECTION 1: Identification of the	substance/mixture and of the company/undertaking			
1.1. Product identifier				
Product form	: Substance			
Physical state	: Solid			
Substance name	: TITANIUM TETRAIODIDE (99+%)			
Product code	: INTIO71			
Formula	: 14Ti2			
Synonyms	: TETRAIODOTITANIUM			
Chemical family	: METAL COMPOUND			
,				
	substance or mixture and uses advised against			
Use of the substance/mixture	: Chemical intermediate For research and industrial use only			
1.3. Details of the supplier of the sa	fety data sheet			
GELEST, INC.				
11 East Steel Road Morrisville, PA 19067				
USA T 215-547-1015 - F 215-547-2484 - (M-F): ξ <u>nfo@gelest.com</u> - <u>www.gelest.com</u>	3:00 AM - 5:30 PM EST			
1.4. Emergency telephone number				
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)			
SECTION 2: Hazards identification	bn			
2.1. Classification of the substance				
Classification (GHS-US)				
Skin Corr. 1B H314 Eye Dam. 1 H318 STOT SE 3 H335				
Full text of H-phrases: see section 16				
2.2. Label elements				
GHS-US labeling				
Hazard pictograms (GHS-US)	: GHS05 GHS07			
Signal word (GHS-US)	: Danger			
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H335 - May cause respiratory irritation			
Precautionary statements (GHS-US)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection P260 - Do not breathe dust P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a doctor P363 - Wash contaminated clothing before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to licensed waste disposal facility. 			
2.3. Other hazards				
No additional information available				
04/02/2015	EN (English US) SDS ID: INTI071 Page 1			

SECTION 3: Composition/inform	ation on in	gredients			
3.1. Substance					
Substance type	: Mono	o-constituent			
Name	: TITA	NIUM TETRAIODIDE (99+%)			
CAS No	: 7720-83-4				
EC no	: 231-754-0				
Name Product identifier % Classification (G				Classification (GHS-US)	
Titanium tetraiodide		(CAS No) 7720-83-4	> 95	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	
3.2. Mixture					
Not applicable					
SECTION 4: First aid measures					
4.1. Description of first aid measure	es				
First-aid measures general	medi	ove contaminated clothing and shoes cal advice immediately (show the lab able show packaging or label.			
First-aid measures after inhalation	: Rem	ove victim to fresh air and keep at re-	st in a position com	fortable for breathing. If you feel	
First-aid measures after skin contact	: Wasł	n with plenty of soap and water. Get	immediate medical	advice/attention.	
First-aid measures after eye contact		ediately flush eyes thoroughly with wa	ater for at least 15	ninutes. Get immediate medical	
First-aid measures after ingestion	: Neve	r give anything by mouth to an unco	nscious person. Ge	t medical advice/attention.	
4.2. Most important symptoms and	effects, both	acute and delayed			
Symptoms/injuries	: Caus	es severe skin burns and eye damag	ge.		
Symptoms/injuries after inhalation	: May cause respiratory irritation. Overexposure may cause: Coughing. Headache. Nausea.				
Symptoms/injuries after skin contact	runni	es (severe) skin burns. Prolonged al ng nose, headache, mucous membra	osorption of bromid ane irritation, anem	es may produce skin rashes, ia, loss of weight and depression	
Symptoms/injuries after eye contact	: Causes serious eye damage.				
Symptoms/injuries after ingestion		formation available.			
		n and special treatment needed			
Note to physician: Titanium tetraiodide reac		o form hydroiodic acid, consequently	treatment for acid	burns may be considered.	
SECTION 5: Firefighting measur	es				
5.1. Extinguishing media					
Suitable extinguishing media	: Carb flame	on dioxide. Dry chemical. Use of high as.	n expansion foam (100:1) is recommended to cover	
5.2. Special hazards arising from the					
Fire hazard		ing fumes of iodine and hydrogen iod r or open flame.	dide vapors may de	evelop when material is exposed t	
5.3. Advice for firefighters					
Firefighting instructions	down	: Use only dry media to extinguish flames. Water spray or fog should only be used to knock down iodine and hydrogen iodide vapors in areas downwind from the fire.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.				
SECTION 6: Accidental release r	neasur <u>es</u>				
6.1. Personal precautions, protectiv	ve equipment	and emergency procedures			
6.1.1. For non-emergency personnel					
Emergency procedures	: Evac	uate unnecessary personnel.			
6.1.2. For emergency responders		·			
6.1.2. For emergency responders Protective equipment	· Fauir	cleanup crew with proper protectior	1.		
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6.3. Methods and material for contain Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal.
6.4. Reference to other sections	
See Heading 8. Exposure controls and person	al protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust. Provide local exhaust or general room
	ventilation to minimize exposure to dust. Avoid dust formation.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Storage conditions	: Keep container tightly closed. Avoid contact with water.
Incompatible materials	: Moisture. Water.
Storage area	: Store in a well-ventilated place. Store away from heat.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pe	rsonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation.
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves.
Eye protection	: Chemical goggles or face shield. Contact lenses should not be worn.
Skin and body protection Respiratory protection	 Wear suitable protective clothing. NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator.
Skin and body protection Respiratory protection SECTION 9: Physical and chemica	 Wear suitable protective clothing. NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator. I properties
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Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
Reacts with water and moisture in air liberating h	nydrogen iodide.
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Moisture. Water.	
10.6. Hazardous decomposition products	
Iodine (I). Hydrogen iodide. Titanium dioxide.	
SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage. : Not classified
Respiratory or skin sensitization Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential Adverse human health effects and	: Inhalation of large amounts is expected to cause necrosis of tracheal epithelium, bronchitis and
symptoms Symptoms/injuries after inhalation	interstitial pneumonia. : May cause respiratory irritation. Overexposure may cause: Coughing. Headache. Nausea.
Symptoms/injuries after skin contact	: Causes (severe) skin burns. Prolonged absorption of bromides may produce skin rashes,
	running nose, headache, mucous membrane irritation, anemia, loss of weight and depression.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: No information available.
Reason for classification	: Expert judgment
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other adverse effects	: This substance may be hazardous to the environment.
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.

SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose of contents/container to licensed waste disposal facility. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
UN-No.(DOT)	: 3260
DOT NA no.	UN3260
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Corrosive solid, acidic, inorganic, n.o.s. (TITANIUM TETRAIODIDE (99.9% on metals basis))
Hazard Classes (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: II - Medium Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 212
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 137
Other information	: No supplementary information available.
Transport by sea	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 15 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 50 kg
SECTION 15: Regulatory information	۱
15.1. US Federal regulations	
Titanium tetraiodide (7720-83-4)	
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory
15.2. International regulations	
Titanium tetraiodide (7720-83-4)	
Listed on the Canadian NDSL (Non-Domestic S Listed on the EEC inventory EINECS (Europea Listed on the Japanese ENCS (Existing & New Listed on the Korean ECL (Existing Chemicals	n Inventory of Éxisting Commercial Chemical Substances) Chemical Substances) inventory

15.3. US State regulations

TITANIUM TETRAIODIDE (99+%)(7720-83-4)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No

TITANIUM TETRAIODIDE (99+%)

Safety Data Sheet

TITANIUM TETRAIODIDE (99+%)(7720-83-4)				
U.S California - Proposition 65 - Reproductive Toxicity - Male		No		
Titanium tetraiodide (7720-83-4)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	

SECTION 16: Other information	
Abbreviations and acronyms	: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

HMIS III Rating

Health

3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability Physical : 0 Minimal Hazard : 1 Slight Hazard

Prepared by safety and environmental affairs.

Date of issue: 04/02/2015 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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