

TERBIUM ACETATE, hydrate

Safety Data Sheet CXTB010 Date of issue: 11/01/2016 Version Version: 1.0

Enabling	Your	Technology

SECTION 1: Identification	
1.1. Product identifier	
Product name	: TERBIUM ACETATE, hydrate
Product code	: CXTB010
Product form	: Substance
Physical state	: Solid
Formula	: C6H9O6Tb xH2O
Synonyms	: ACETIC ACID, TERBIUM(3+) SALT
Chemical family	: RARE EARTH COMPOUND
1.2. Recommended use of the chemical	
Recommended use	: Chemical intermediate
Recommended use	For research use only
1.3. Details of the supplier of the safety	data sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 info@gelest.com - www.gelest.com	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: Hazard(s) identification	
2.1. Classification of the substance or n	nixture
GHS-US classification	
	H319
Serious eye damage/eye irritation Category 2A Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 - If eye irritation persists: Get medical advice/attention
2.3. Hazards not otherwise classified (H	NOC)
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
No data available	
SECTION 3: Composition/Information	on on ingredients
3.1. Substance	
Substance type	: Mono-constituent
Name	: TERBIUM ACETATE, hydrate
CAS No	: 100587-92-6

Name	Product identifier	%	GHS-US classification
Terbium acetate, hydrate	(CAS No) 100587-92-6	95 - 100	Eye Irrit. 2A, H319

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Full text of hazard classes and H-statements	: see section 16
3.2. Mixture	
Not applicable	
4.1. Description of first aid measures	
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if no available show packaging or label.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: No information available.
	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
Jnsuitable extinguishing media	: None known.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated
	temperatures or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.
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 m	easures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. N	lotify authorities if product enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
For containment	 Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
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 perso	onal protection.
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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	Avoid contact with align and avon. Do not breather dust Avoid dust formation. Devoids level
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local exhaust or general room ventilation to minimize exposure to dust.
Hygiene measures	: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild

Storage conditions	Keep container tightly closed.Store in a well-ventilated place. Store away from heat.	
Storage area		
SECTION 8: Exposure controls/pe	rsonal protection	
3.1. Control parameters		
Terbium acetate, hydrate (100587-92-6)		
ACGIH ACGIH TW	A (mg/m³) 1 mg/m³ Terbium compounds	
3.2. 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 available in the immediate vicinity of any potential exposure.	
Hand protection	: Neoprene or nitrile rubber gloves.	
Eye protection	: Chemical goggles. Contact lenses should not be worn.	
Skin and body protection	: Wear suitable protective clothing.	
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (teal cartridge) respirator.	
SECTION 9: Physical and chemica	I properties	
9.1. Information on basic physical an	I chemical properties	
Physical state	: Solid	
Appearance	: Crystals.	
Molecular mass	: 336.06 g/mol	
Color	: White to off-white.	
Ddor	: characteristic. Mild.	
Odor threshold	: No data available	
Refractive index	: No data available	
Н	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
/apor pressure	: <1 mm Hg @ 25°C	
Relative vapor density at 20 °C	: No data available	
Relative density	: >1	
/OC content	: <3%	
Solubility	: Slightly. Soluble in water.	
Log Pow	: No data available	
Log Kow	: No data available	
/iscosity, kinematic	: No data available	
/iscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Explosion limits	: No data available	
0.2. Other information		

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
Material decomposes slowly in contact with air b	by reaction with water and carbon dioxide.
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	3
Organic acid vapors. Terbium oxide fumes.	
SECTION 11: Toxicological informat	tion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
	None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
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	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	 Dispose of solid materials or residues at a licensed site. Dispose in a safe manner in accordance with local/national regulations.
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: Avoid release to the environment.

SECTION 14: Transport information	on	
14.1. UN number		
Not regulated for transport.		
14.2. UN proper shipping name		
Not applicable		
14.3. Additional information		
Other information	: No supplementary information available.	
Transport by sea		
No additional information available		
Air transport		
No additional information available		
SECTION 15: Regulatory information	ion	
15.1. US Federal regulations		
TERBIUM ACETATE, hydrate (100587-92	-6)	
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States	
Tarkium asstata, kudrata (100597.02.6)		
Terbium acetate, hydrate (100587-92-6) Not listed on the United States TSCA (Toxi	c Substances Control Act) inventory	
Not listed on the onited States TSCA (TOX	C Substances Control Act) Inventory	
15.2. International regulations CANADA No additional information available EU-Regulations No additional information available National regulations No additional information available		
15.3. US State regulations		
No additional information available		
SECTION 16: Other information		
Full text of H-phrases:: H319	Causes serious eve irritation	
Abbreviations and acronyms	Causes serious eye irritation 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; GHS: The Globally Harmonized System of Classification and Labelling.	
HMIS III Rating Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	 2 Moderate Hazard - Temporary or minor injury may occur 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, 	
	solids and semi solids having a flash point above 200 F. (Class IIIB)	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	

Prepared by safety and environmental affairs.

TERBIUM ACETATE, hydrate

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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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