

# SAFETY DATA SHEET

Creation Date 18-Dec-2012

Revision Date 29-Mar-2024

**Revision Number** 4

1. Identification			
Product Name O-(6-Chloro-1H-benzotriazol-1-yl)-N,N,N',N'-tetramethyluro tetrafluoroborate			
Cat No. :	H54732		
CAS No Synonyms	330641-16-2 TCTU		
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.		

## Details of the supplier of the safety data sheet

#### Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

## **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Category 2 Category 2

## Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation



## Precautionary Statements

## Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection **Skin** 

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

## Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
O-(6-Chlorobenzotriazol-1-yl)-N,N,N',N'-tetramethyl	330641-16-2	>95
uronium tetrafluoroborate		

4. First-aid measures		
General Advice	If symptoms persist, call a physician.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.	
Most important symptoms and effects Notes to Physician	None reasonably foreseeable. Treat symptomatically	
5. Fire-fighting measures		

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	No information available

Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No information available No information available

## **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

## Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx). Halogenated compounds. **Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## NFPA

Health 2	Flammability 1	Instability 0	Physical hazards N/A		
	6. Accidental re	lease measures			
Personal Precautions	Ensure adequate ventilation	on. Use personal protective equ	ipment as required. Avoid dust		
Environmental Precautions	Should not be released in Information.	to the environment. See Sectior	n 12 for additional Ecological		
Nethods for Containment and Cle Jp	ean Sweep up and shovel into containers for disposal.	suitable containers for disposa	I. Keep in suitable, closed		
	7. Handling	and storage			
Handling		equipment/face protection. Ensice clothing. Avoid ingestion and in	ure adequate ventilation. Do not halation. Avoid dust formation.		
Storage.		osed in a dry, cool and well-vent aterials. Strong oxidizing agents	tilated place. Protect from direct		
8. Exposure controls / personal protection					
Exposure Guidelines		tain any hazardous materials w gion specific regulatory bodies.			
Engineering Measures	Ensure that eyewash stati	ons and safety showers are clo	se to the workstation location.		
Personal Protective Equipment					
Eye/face Protection		ve eyeglasses or chemical safe tection regulations in 29 CFR 19			
Skin and body protection	Wear appropriate protectiv	ve gloves and clothing to prever	nt skin exposure.		
<b>Respiratory Protection</b>	No protective equipment is	s needed under normal use con	ditions.		
Hygiene Measures	Handle in accordance with	n good industrial hygiene and sa	afety practice.		

9. Physic	al and chemical properties
Physical State	Solid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	198 - 204 °C / 388.4 - 399.2 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C11 H15 B CI F4 N5 O
Molecular Weight	355.53

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Light sensitive. heat sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to light.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NOx), Halogenated compounds
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products <u>Delayed and immediate effects as</u>	No information available well as chronic effects from short and long-term exposure
Irritation	No information available
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
O-(6-Chlorobenzotriaz	330641-16-2	Not listed	Not listed	Not listed	Not listed	Not listed
ol-1-yl)-N,N,N',N'-tetra						
methyluronium tetrafluoroborate						
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	s	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos		None known				
STOT - repeated exp	posure	None known				
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	,both acute and	No information available				
Endocrine Disrupto	ndocrine Disruptor Information No information available					
Other Adverse Effect	Other Adverse Effects The toxicological properties have not been fully investigated.					
12. Ecological information						
<u>Ecotoxicity</u> Do not empty into drains.						
Persistence and De	gradability	No information ava	ailable			
Bioaccumulation/ Accumulation No information available.						
Mobility No information available.						
		13. Dispo	sal conside	erations		
Waste Disposal Met	Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			gional, and		
		14. Trar	nsport inform	nation		

14. Transport information			
DOT	Not regulated		
DOT TDG	Not regulated		
IATA	Not regulated		
IMDG/IMO	Not regulated		
15. Regulatory information			

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
O-(6-Chlorobenzotriazol-1-yl)-N,N, N',N'-tetramethyluronium tetrafluoroborate	330641-16-2	-	-	-

Legend: TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

#### '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
O-(6-Chlorobenzotriazol-1-yl)-N,N,	330641-16-2	-	-	-	-	-		-	-	-
N',N'-tetramethyluronium										
tetrafluoroborate										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

## Mexico - Grade

No information available

## Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
O-(6-Chlorobenzotriazol-1-yl)-N,N,N ',N'-tetramethyluronium tetrafluoroborate	330641-16-2	-	-	-

### Safety, health and environmental regulations/legislation specific for the substance or mixture

	Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
_ I.	O-(6-Chlorobenzotriazol-1-yl)- N,N,N',N'-tetramethyluronium tetrafluoroborate		Not applicable	Not applicable	Not applicable	Not applicable

## Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

## Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
O-(6-Chlorobenzotriazol-1-yl)- N,N,N',N'-tetramethyluronium tetrafluoroborate	330641-16-2	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	18-Dec-2012 29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# End of SDS