

# SAFETY DATA SHEET

Creation Date 11-Aug-2011

Revision Date 28-Dec-2021

**Revision Number** 4

1. Identification

**Product Name** 

## 2,2,6,6-Tetramethyl-3,6-dihydro-2H-pyran-4-boronic acid pinacol ester

Cat No. :	AC445530000, AC445530010

**Synonyms** No information available

**Recommended Use** Uses advised against

**Emergency Telephone Number** 

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410

For information US call: 001-800-ACROS-01 / 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 Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 2 Category 2 Category 3

#### Label Elements

Signal Word Warning

### **Hazard Statements**

Causes skin irritation Causes serious eye irritation May cause respiratory irritation



### Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell **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

### Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

### 3. Composition/Information on Ingredients

Component		CAS No	Weight %	
2,2,6,6-Tetramethyl-3,6-dihydro-2H-pyran-4-boronic acid pinacol ester		1142363-56-1	>95	
	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	None reason	ably foreseeable.		

Notes to Physician	Treat symptomatically			
	5. Fire-fightin	g measures		
Suitable Extinguishing Media	Water spray, carbon dioxide	(CO2), dry chemical, alcohol-r	esistant foam.	
Unsuitable Extinguishing Media	No information available			
Flash Point Method -	No information available No information available			
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No data available No data available St No information available No information available			
Specific Hazards Arising from the Cl Keep product and empty container awa		gnition.		
Hazardous Combustion Products Thermal decomposition can lead to rele boron. Protective Equipment and Precautio As in any fire, wear self-contained brea protective gear.	ns for Firefighters			
NFPA Health	Flammability	Instability		
3	1	Instability 1	Physical hazards N/A	
	-	1		
3 Personal Precautions	1 6. Accidental relation Use personal protective equipormation.	1	N/A equate ventilation. Avoid dust	
3 Personal Precautions Environmental Precautions Methods for Containment and Clean	1 6. Accidental relation Use personal protective equiparts formation. Should not be released into Information.	1 Pase measures ipment as required. Ensure add the environment. See Section	N/A equate ventilation. Avoid dust 12 for additional Ecological	
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3 Personal Precautions Environmental Precautions Methods for Containment and Clean Up Handling	1 6. Accidental relations Use personal protective equiformation. Should not be released into Information. Sweep up and shovel into significations containers for disposal. 7. Handling and Wear personal protective equifications get in eyes, on skin, or on constructions Keep containers tightly close	1 Pase measures ipment as required. Ensure add the environment. See Section of uitable containers for disposal. <u>Ind storage</u> uipment/face protection. Ensure othing. Avoid ingestion and inh	N/A equate ventilation. Avoid dust 12 for additional Ecological Keep in suitable, closed e adequate ventilation. Do not alation. Avoid dust formation. ated place. Store under an inert	
3 Personal Precautions Environmental Precautions Methods for Containment and Clean Up Handling Storage.	1 6. Accidental rel Use personal protective equ formation. Should not be released into Information. Sweep up and shovel into s containers for disposal. 7. Handling a Wear personal protective ed get in eyes, on skin, or on c Keep containers tightly closs atmosphere. Protect from m Strong acids. Strong bases.	1 Pase measures ipment as required. Ensure add the environment. See Section uitable containers for disposal. Ind storage uipment/face protection. Ensur othing. Avoid ingestion and inh ed in a dry, cool and well-ventila oisture. Incompatible Materials personal protectio	N/A equate ventilation. Avoid dust 12 for additional Ecological Keep in suitable, closed e adequate ventilation. Do not alation. Avoid dust formation. ated place. Store under an inert s. Strong oxidizing agents.	
3 Personal Precautions Environmental Precautions Methods for Containment and Clean Up Handling Storage.	1 6. Accidental rel Use personal protective equ formation. Should not be released into Information. Sweep up and shovel into s containers for disposal. 7. Handling a Wear personal protective ed get in eyes, on skin, or on c Keep containers tightly closs atmosphere. Protect from m Strong acids. Strong bases. posure controls / This product does not conta	1 Pase measures ipment as required. Ensure add the environment. See Section of uitable containers for disposal. nd storage uipment/face protection. Ensur othing. Avoid ingestion and inh ed in a dry, cool and well-ventila oisture. Incompatible Materials	N/A equate ventilation. Avoid dust 12 for additional Ecological Keep in suitable, closed e adequate ventilation. Do not alation. Avoid dust formation. ated place. Store under an inert s. Strong oxidizing agents.	

Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties **Physical State** Solid Off-white Appearance Odor No information available **Odor Threshold** No information available No information available pН . Melting Point/Range 91 - 93 °C / 195.8 - 199.4 °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 C15 H27 B O3

Molecular Formula Molecular Weight

### 10. Stability and reactivity

266.19

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions. Moisture sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to moisture.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases
Hazardous Decomposition Product	s Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Oxides of boron
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11 Tovicelegical information

11. Toxicological information

#### Acute Toxicity

Product Information Component Information	No acute toxicity information is available for this product					
Toxicologically Synergistic	No information available					
Products						
Delayed and immediate effects a	as well as chronic effects from short and long-term exposure					
Irritation	Irritating to eyes, respiratory system and skin					
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			
2,2,6,6-Tetramethyl-3, 6-dihydro-2H-pyran-4- boronic acid pinacol ester	1142363-56-1	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information available							
Reproductive Effect	S	No information available.							
Developmental Effe	cts	No information available.							
Teratogenicity		No information ava	ailable.						
STOT - single expos STOT - repeated exp		Respiratory system None known	n						
Aspiration hazard		No information ava	ailable						
Symptoms / effects delayed	,both acute and	d No information available							
Endocrine Disrupto	r Information	No information available							
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.							
		12. Ecol	ogical infor	mation					
<u>Ecotoxicity</u> Do not empty into dra	ains.								
Persistence and De	gradability	Insoluble in water							
Bioaccumulation/ A	ccumulation	No information available.							
Mobility		Is not likely mobile in the environment due its low water solubility.							
		13. Dispo	sal conside	erations					
Waste Disposal Met	hods	Chemical waste generators must determine whether a discarded chemical is classifie hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				gional, and			
		14 Tran	sport infor	nation					

14. Transport information			
DOT	Not regulated		
DOT	Not regulated		
	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
2,2,6,6-Tetramethyl-3,6-dihydro-2 H-pyran-4-boronic acid pinacol ester	1142363-56-1	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export 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
2,2,6,6-Tetramethyl-3,6-dihydro-2	1142363-56-1	-	-	-	-	-		-	-	-
H-pyran-4-boronic acid pinacol										
ester										

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

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
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

#### 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)
2,2,6,6-Tetramethyl-3,6-dihydr o-2H-pyran-4-boronic acid pinacol ester	1142363-56-1	Not applicable	Not applicable	Not applicable	Not applicable
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)
2,2,6,6-Tetramethyl-3,6-dihydr o-2H-pyran-4-boronic acid pinacol ester	1142363-56-1	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	11-Aug-2011 28-Dec-2021 28-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

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**