

## SAFETY DATA SHEET

Revision Date 30-Mar-2024

**Revision Number** 3

### 1. Identification

### **Product Name**

### Paclobutrazol

 Cat No. :
 J66720

 CAS No
 76738-62-0

Recommended Use Uses advised against

ed UseLaboratory chemicals.I againstFood, drug, pesticide or biocidal product use.

No information available

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

### <u>Company</u>

**Synonyms** 

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)

Flammable solids	Category 1	
Acute oral toxicity	Category 4	
Acute dermal toxicity	Category 4	

### Label Elements

Signal Word Danger

### Hazard Statements

Flammable solid Harmful if swallowed or in contact with skin



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting equipment Skin IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Fire In case of fire: Use CO2, dry chemical, or foam for extinction 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 %
1H-1,2,4-Triazole-1-ethanol,	76738-62-0	<=100
beta[(4-chlorophenyl)methyl]alpha(1,1-dimethyl		
ethyl)-		

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	None reasonably foreseeable.	
effects Notes to Physician	Treat symptomatically	

### 5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	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). Hydrogen chloride.

### 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.

<u>NFPA</u> Health	Flammability	Instability	Physical hazards		
2	2	1	-		
	6. Accidental re	elease measures			
Personal Precautions	Ensure adequate ventilati formation.	on. Use personal protective equ	ipment as required. Avoid dust		
Environmental Precautions		Should not be released into the environment. See Section 12 for additional Ecological			
Methods for Containment and Cl Up	ean Sweep up and shovel into containers for disposal.	an Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.			
	7. Handling	and storage			
Handling		equipment/face protection. Ensi Avoid dust formation. Do not get			
Storage.		Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture.			
8. Exposure controls / personal protection					
Exposure Guidelines		ntain any hazardous materials w egion specific regulatory bodies.	ith occupational exposure		
Engineering Measures	None under normal use c	onditions.			
Personal Protective Equipment					
Eye/face Protection		ve eyeglasses or chemical safet tection regulations in 29 CFR 19			

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.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical 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	165 - 166 °C / 329 - 330.8 °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

### 10. Stability and reactivity

Reactive Hazard None known, based on information available			
Stability	Hygroscopic.		
Conditions to Avoid Exposure to moist air or water.			
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen chloride			
Hazardous Polymerization Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.		

### 11. Toxicological information

### Acute Toxicity

#### Product Information Component Information

component information					
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
1H-1,2,4-Triazole-1-ethanol,	LD50 = 1300 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	LC50 = 4.79 mg/L (Rat) 4 h		
.beta[(4-chlorophenyl)methyl]alph			LC50 = 3.13 mg/L (Rat) 4 h		
a(1,1-dimethylethyl)-					
Toxicologically Synergistic	oxicologically Synergistic No information available				
Products					
Delayed and immediate effects as well as chronic effects from short and long-term exposure					

Irritation No	o information available
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Sensitization No information available

Carcinogenicity

UN-No

Proper Shipping Name Hazard Class The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
1H-1,2,4-Triazole-1-et	76738-62-0	Not listed	Not listed	Not listed	Not listed	Not listed
hanol, .beta[(4-chlorophenyl						
)methyl]alpha(1,1-di						
methylethyl)- 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 STOT - repeated exp		None known None known				
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	,both acute and	No information available				
Endocrine Disrupto	r Information	No information available				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.				
		12. Ecological information				
Ecotoxicity Do not empty into dra	ains.					
Persistence and Degradability		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 classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				
		14. Trar	nsport inform	nation		
Technical Name Hazard Class Packing Group	UN-NoUN1325Proper Shipping NameFlammable solid, organic, n.o.s.Technical Name(Paclobutrazol)Hazard Class4.1Packing GroupII					
<u>TDG</u>						

UN1325 Flammable solid, organic, n.o.s. 4.1

Packing Group	II
<u>IATA</u>	
UN-No	UN1325
Proper Shipping Name	Flammable solid, organic, n.o.s.
Hazard Class	4.1
Packing Group	II
IMDG/IMO	
UN-No	UN1325
Proper Shipping Name	Flammable solid, organic, n.o.s.
Hazard Class	4.1
Packing Group	I
	15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1H-1,2,4-Triazole-1-ethanol, .beta[(4-chlorophenyl)methyl]al pha(1,1-dimethylethyl)-	76738-62-0	-	-	-

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 Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
1H-1,2,4-Triazole-1-ethanol,	76738-62-0	-	-	-	Х	-	Х	-	Х	2014-3-5988
.beta[(4-chlorophenyl)methyl]al										
pha(1,1-dimethylethyl)-										

**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

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)
1H-1,2,4-Triazole-1-ethanol, .beta[(4-chlorophenyl)methyl]alph a(1,1-dimethylethyl)-	76738-62-0	-	Use restricted. See item 75. (see link for restriction details)	-

#### **REACH links**

https://echa.europa.eu/substances-restricted-under-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)
1H-1,2,4-Triazole-1-ethanol, .beta[(4-chlorophenyl)methyl ]alpha(1,1-dimethylethyl)-	76738-62-0	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

Compor	nent	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
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	for Major Accident Notification	for Safety Report Requirements		
1H-1,2,4-Triazole-1-ethanol, .beta[(4-chlorophenyl)methyl ]alpha(1,1-dimethylethyl)-	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
Revision Date Print Date Revision Summary	30-Mar-2024 30-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**