

Chemical Safety Data Sheet MSDS / SDS

Prallethrin

Revision Date:2026-08-01 Revision Number:1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name : Prallethrin
CBnumber : CB4471390
CAS : 23031-36-9
EINECS Number : 245-387-9
Synonyms : Prallethrin,ETOC

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.
Uses advised against : none

Company Identification

Company : Chemicalbook
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing
Telephone : 010-86108875

SECTION 2: Hazards identification

GHS Label elements, including precautionary statements

Symbol(GHS)



Signal word

Danger

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

Hazard statements

H302 Harmful if swallowed
H331 Toxic if inhaled
H410 Very toxic to aquatic life with long lasting effects

SECTION 3: Composition/information on ingredients

Substance

Product name	: Prallethrin
Synonyms	: Prallethrin,ETOC
CAS	: 23031-36-9
EC number	: 245-387-9
MF	: C ₁₉ H ₂₄ O ₃
MW	: 300.39

SECTION 4: First aid measures

SECTION 5: Firefighting measures

5.1 Suitable Extinguishing

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Media

Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing

A solid water stream may be inefficient.

Media

5.2 Flammable Properties and

No data available.

Hazards

No data available.

Flash Pt

No data.

Explosive Limits

LEL: No data. UEL: No data.

Autoignition Pt

No data.

equivalent), and full protective gear to prevent contact with skin and eyes.

Prallethrin		
	Revision:	09/02/2018

SECTION 6: Accidental release measures

6.1

Protective Precautions, Avoid breathing vapors and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2

Environmental Take steps to avoid release into the environment, if safe to do so.

Precautions:

6.3

Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

SECTION 7: Handling and storage

7.2

Precautions To Be Taken Keep container tightly closed.

in Storing: Store in accordance with information listed on the product insert.

SECTION 8: Exposure controls/personal protection

8.1

Exposure Parameters:

8.2.1 Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne (Ventilation etc.): levels below recommended exposure limits.

Eye protection

Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/MaintenanDo not take internally.

ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

Wash thoroughly after handling.

No data available.

SECTION 9: Physical and chemical properties

Information on basic physicochemical properties

s: ☐ Gas ☒ Liquid ☐ Solid

pH

No data.

Evaporation Rate

No data.

Flammability

(solid, gas): No data available.

Vapor Pressure

(vs. Air or mm No data.

Vapor Density

(vs. Air = 1): No data.

SOLUBILITY

in Water: No data.

SOLUBILITY

Notes: Soluble (slightly) in: chloroform; MeOH;

Octanol/Water Partition No data.

Coefficient:

Autoignition Pt: No data.

Decomposition Temperature: No data.

Viscosity: No data.

9.2 Other Information

Percent Volatile: No data.

Molecular Formula & Weight: C₁₉H₂₄O₃ 300.4

Melting point/freezing point

25°C

Boiling point or initial boiling point and boiling range

381.62°C (rough estimate)

Density and/or relative density

d₄₂₀ 1.03

Flash point

139 °C

Water solubility

8 mg l⁻¹ (25 °C)

SECTION 10: Stability and reactivity

Polymerization

Will occur [] Will not occur [X]

10.4 Conditions To Avoid

No data available.

10.5 Incompatibility - Materials

strong oxidizing agents

To Avoid

10.6 Hazardous

carbon dioxide

Decomposition or Byproducts

carbon monoxide

SECTION 11: Toxicological information

Toxicological Effects

Prallethrin - Toxicity Data: Oral LD50 (rat): 460 mg/kg; Subcutaneous LD50 (rat): 580 mg/kg; Oral

LD50 (mouse)

190 mg/kg; Subcutaneous LD50 (mouse): 589 mg/kg;

Chronic Toxicological

Prallethrin - Investigated as an agricultural chemical.

Effects

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information.

Prallethrin RTECS Number

GZ1725300

Carcinogenicity

NTP? No IARC Monographs? No OSHA Regulated? No

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
23031-36-9	Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 2-methyl-4-oxo-3-(2-propynyl)-2	n.a.	n.a.	n.a.	n.a.

SECTION 12: Ecological information

12.6 Other adverse effects

No data available.

12.1	Toxicity:		Avoid release into the environment.										
			Runoff from fire control or dilution water may cause pollution.										
12.2	Persistence and		No data available.										
	Degradability:												
12.3	Bioaccumulative		No data available.										
	Potential:												
12.4	Mobility in Soil:		No data available.										
12.5	Results of PBT and vPvB		No data available.										
	assessment:												
												Multi-region format	

Prallethrin

Revision

09/02/2018

SECTION 13: Disposal considerations

SECTION 14: Transport information

DOT

Toxic solid, organic, n.o.s. (Prallethrin)

DOT

6.1 POISON

UN/NA Number

UN2811 Packing Group: I

ADR/RID Shipping Name UN Number Hazard Class

Toxic solid, organic, n.o.s. (Prallethrin) 2811 Packing Group: I 6.1 - POISON

ICAO/IATA Shipping Name UN Number Hazard Class

Toxic solid, organic, n.o.s. (Prallethrin) 2811 Packing Group: I 6.1 - POISON IATA Classification: 6.1

Additional Transport

Transport in accordance with local, state, and federal regulations.

Information

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of

E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.

Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

SECTION 15: Regulatory information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
23031-36-9	Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 2-methyl-4-oxo-3-(2-propynyl)-2	No	No	No
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
23031-36-9	Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 2-methyl-4-oxo-3-(2-propynyl)-2	CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		

Regulatory Information

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement

No.1272/2008.

SECTION 16: Other information

Abbreviations and acronyms

CAS: Chemical Abstracts Service

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

EC50: Effective Concentration 50%

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

IMDG: International Maritime Dangerous Goods Code

IATA: International Air Transport Association

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

DOT: US Department of Transportation

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.