
Safety Data Sheet**1. Chemical product and company identification****Product name** : Pyrimidifen**SDS code** : D7-15**Company/undertaking identification** :

HAYASHI PURE CHEMICAL IND.,LTD.

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URL : <https://www.hpc-j.co.jp/>**Emergency number** : 06-6910-7305**Recommended use** : For research and experimental use only.**Restrictions on use** : Do not use for any purpose other than research and experiment. Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc. Do not use in the environment.**2. Hazards identification****GHS classification**

Physical hazards	Explosives	No classification
	Flammable gases	No classification
	Aerosol	No classification
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	No classification
	Flammable solids	classification not possible
	Self-reactive substances and mixtures	No classification
	Pyrophoric liquids	No classification
	Pyrophoric solids	classification not possible
	Self-heating substances and mixtures	classification not possible
	Substances and mixtures which in contact with water emit flammable gases	No classification
	Oxidizing liquids	No classification
	Oxidizing solids	No classification
	Organic peroxides	No classification
	Corrosive to metals	classification not possible
	Desensitized explosives	No classification
	Acute toxicity (oral)	Category 3
Health hazards	Acute toxicity (dermal)	No classification
	Acute toxicity (inhalation:gas)	No classification
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	Category 2
	Skin corrosion/irritation	No classification
	Serious eye damage/eye irritation	No classification
	Respiratory sensitization	classification not possible
	Skin sensitization	Category 1A
	Germ cell mutagenicity	No classification
	Carcinogenicity	No classification
	Reproductive toxicity	No classification
	Specific target organ toxicity (single exposure)	classification not possible

Environmental hazards	Specific target organ toxicity (repeated exposure)	Category 1 (blood system)	
	Aspiration hazard	classification not possible	
	Hazardous to the aquatic environment, short-term (acute)	Category 1	
	Hazardous to the aquatic environment, long-term (chronic)	Category 1	
	Hazardous to the ozone layer	classification not possible	
Hazard pictograms (GHS JP)	 GHS06	 GHS08	 GHS09
Signal word (GHS JP)	: Danger		
Hazard statements (GHS JP)	: Toxic if swallowed (H301) May cause an allergic skin reaction (H317) Fatal if inhaled (H330) Causes damage to organs (blood system) through prolonged or repeated exposure (H372) Very toxic to aquatic life with long lasting effects (H410)		
Precautionary statements (GHS JP)			
Prevention	: Do not breathe dust/fume/gas/mist/vapors/spray. (P260) Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271) Contaminated work clothing should not be allowed out of the workplace. (P272) Avoid release to the environment. (P273) Wear protective gloves/protective clothing/eye protection/face protection. (P280) [In case of inadequate ventilation] wear respiratory protection. (P284)		
Response	: IF SWALLOWED: Immediately call a POISON CENTER or doctor. (P301+P310) IF ON SKIN: Wash with plenty of water. (P302+P352) IF INHALED: Remove person to fresh air and keep comfortable for breathing (P304+P340) Immediately call a POISON CENTER or doctor. (P310) Get medical advice/attention if you feel unwell. (P314) Rinse mouth. (P330) If skin irritation or rash occurs: Get medical advice/attention. (P333+P313) Take off contaminated clothing and wash it before reuse. (P362+P364) Collect spillage. (P391)		
Storage	: Store in a well-ventilated place. Keep container tightly closed. (P403+P233) Store locked up. (P405)		
Disposal	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. (P501)		

3. Composition/information on ingredients

Distinction of substance or mixture	: Substance
Synonyms	: 5-Chloro-N- {2- [4- (2-ethoxyethyl) -2,3-dimethylphenoxy] ethyl} -6-ethylpyrimidine-4-amine

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	
Pyrimidifen	≥95%、≤100%	C20H28ClN3O2	-	-	105779-78-0

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get immediate medical advice/attention.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media	: Water spray, Foam, Dry powder, Carbon dioxide, Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Explosion hazard	: May induce explosion of containers by heating.
Hazardous decomposition products in case of fire	: In case of fire, product may produce irritative or toxic fumes/gases.
Firefighting instructions	: If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers. In the case of peripheral fire, quickly remove movable containers to safe places. If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool. Avoid (reject) fire-fighting water to enter environment. Even after extinguishing fire, thoroughly cool containers by using plenty of water.
Protection during firefighting	: Wear appropriate fire-resistant clothing including self contained-compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures	: Before entering, ventilate the area. Do not let unauthorized persons come close to the area. Immediately place the leakage area in isolation, with taking proper distances for all directions. Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.
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Environmental precautions

Environmental precautions	: Avoid release to the environment. Prevent entry to sewers and public waters.
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Methods and Equipment for Containment and Cleaning up

Methods for cleaning up	: Take care not to generate dust, sweep it up as much as possible, collect it in an empty container that can be sealed, and move it to a safe place. Wash out the spilled area with large amounts of water.
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7. Handling and storage

Handling

Technical measures	: Work with appropriate personal protective equipment to prevent inhalation or contact to eyes, skin, and clothing. Handle with care to prevent leakage, overflowing, or scattering, minimize generation of mist or vapor, and thoroughly ventilate.
Precautions for safe handling	: Do not eat, drink or smoke when using this product. Thoroughly wash your hands and gargle after handling. Ensure good ventilation of the work station. Do not contact, breathe or swallow.

Prevents handling of incompatible substances or mixtures : Avoid prolonged or repeated exposure.

Storage

Storage conditions : Store locked up.
Store in a well-ventilated place, away from direct sunlight. Keep container tightly closed and keep away from fire and heat sources.

Material used in packaging/containers : Light shielding airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Refrigerate: 2-10°C

8. Exposure controls / Personal protection equipment

Appropriate engineering controls : Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Dustproof mask

Hand protection : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

Skin and body protection : Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder

Color : white

Odor : No data available

pH : No data available

Melting point : 69.4 – 70.9 °C

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 : No data available

Vapor pressure : 1.6×10^{-7} Pa (25°C)

Relative density : No data available

Density : 1.22 g/cm³ (20°C)

Relative gas density : No data available

Solubility : Soluble in many organic solvents.
Water: 2.17 mg/l

Partition coefficient n-octanol/water (Log Pow) : 4.59 (23±1°C, pH6.79-7.08)

Explosive limits (vol %) : No data available

Viscosity, kinematic : No data available

Particle characteristics : No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : No data available

Conditions to avoid : Sunlight, Heat

Incompatible materials : No data available

Hazardous decomposition products : Chlorine, Chlorine compounds, Nitrogen oxides

11. Toxicological information

Pyrimidifen	
Acute toxicity (oral)	Category 3
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	Category 2
Skin corrosion/irritation	No classification
Serious eye damage/irritation	No classification
Respiratory sensitization	classification not possible
Skin sensitization	Category 1A
Germ cell mutagenicity	No classification
Carcinogenicity	No classification
Reproductive toxicity	No classification
STOT-single exposure	classification not possible
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible

12. Ecological information

Pyrimidifen	
Hazardous to Aquatic Environment - Acute Hazard	Category 1
Hazardous to Aquatic Environment - Chronic Hazard	Category 1
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	classification not possible

13. Disposal considerations

Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a waste disposer authorized by a Prefectural Governor.

Contaminated container and packaging : Empty the packaging completely prior to disposal.
Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) : 2588
 Proper Shipping Name (IMDG) : PESTICIDE, SOLID, TOXIC, N.O.S.
 Packing group (IMDG) : III
 Transport hazard class(es) (IMDG) : 6.1
 Hazard labels (IMDG) : 6.1
 Class (IMDG) : 6.1
 Division (IMDG) : 6.1
 Special provision (IMDG) : 61, 223, 274
 Limited quantities (IMDG) : 5 kg
 Excepted quantities (IMDG) : E1
 Packing instructions (IMDG) : P002, LP02
 IBC packing instructions (IMDG) : IBC08
 IBC special provisions (IMDG) : B3
 Tank instructions (IMDG) : T1
 Tank special provisions (IMDG) : TP33
 Stowage category (IMDG) : A
 Properties and observations (IMDG) : Solid pesticides present a very wide range of toxic hazard. Toxic if swallowed, by skin contact or by inhalation.
 MFAG-No : 151

Air transport(IATA)

UN-No. (IATA)	:	2588
Proper Shipping Name (IATA)	:	Pesticide, solid, toxic, n.o.s.
Packing group (IATA)	:	III
Transport hazard class(es) (IATA)	:	6.1
Hazard labels (IATA)	:	6.1
Class (IATA)	:	6.1
Division (IATA)	:	6.1
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y645
PCA limited quantity max net quantity (IATA)	:	10kg
PCA packing instructions (IATA)	:	670
PCA max net quantity (IATA)	:	100kg
CAO packing instructions (IATA)	:	677
CAO max net quantity (IATA)	:	200kg
Special provision (IATA)	:	A3, A5
ERG code (IATA)	:	6L
Marine pollutant	:	Applicable

Regulations in Japan

Regulatory information by sea	:	Conform to the provisions of the Ship Safety Law.
Regulatory information by air	:	Conform to the provisions of the Civil Aeronautics Law.
MFAG-No	:	151
Special transport precautions	:	When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Industrial Safety and Health Law	:	Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) 【Date of enforcement: April 1, 2025】 Dangerous or Harmful Substances for Labeling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2) Pyrimidifen
Japanese Poisonous and Deleterious Substances Control Law	:	Deleterious Substances (Designated Order Art.2) 5-Chloro-N-[2-[4-(2-ethoxyethyl)-2,3 -dimethylphenoxy]ethyl] -6 - ethylpyrimidine-4-amine(Pyrimidifen) and preparations containing it. (except for preparations which contain 4 % or less of 5-chloro-N-[2-[4-(2-ethoxyethyl)-2,3 -dimethylphenoxy]ethyl] -6 -ethylpyrimidine-4-amine).
Fire Service Law	:	Not applicable
Foreign Exchange and Foreign Trade Control Act	:	Export Trade Control Ordinance appendix 1-16
Ship Safety Act	:	Toxic and infectious substances/Toxic substances (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Civil Aeronautics Law	:	Toxic and infectious substances/Toxic substances (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)
Port Regulation Law	:	Toxic and infectious substances/Toxic substances (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Not applicable

16. Other information

Data sources	:	Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).
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Other information

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