

d·d-T-Cyphenothrin

Hayashi Pure Chemical Ind.,Ltd. Date of issue: 6/28/2012 Revision date: 3/22/2021

SDS code: P5-02

Version: 02

Safety Data Sheet

1. Chemical product and company identification

Product name	
SDS code	

d·d-T-Cyphenothrin :

P5-02 : Company/undertaking : identification HAYASHI PURE CHEMICAL IND., LTD. Address : 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hpc-j.co.jp URL : https://www.hpc-j.co.jp/ : 06-6910-7305

Emergency number

2. Hazards identification

GHS classification

Physical hazards	Desensitized explosives	classification not possible
,	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	No classification
	Self-reactive substances and mixtures	No classification
	Pyrophoric liquids	No classification
	Pyrophoric solids	No classification
	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
Health hazards	Acute toxicity (oral)	Category 4
	Acute toxicity (dermal)	No classification
	Acute toxicity (inhalation:gas)	classification not possible
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	Category 2
	Skin corrosion/irritation	classification not possible
	Serious eye damage/eye irritation	classification not possible
	Respiratory sensitization	classification not possible
	Skin sensitization	classification not possible
	Germ cell mutagenicity	classification not possible
	Carcinogenicity	classification not possible
	Reproductive toxicity	classification not possible
	Specific target organ toxicity (single exposure)	classification not possible
	Specific target organ toxicity (repeated exposure)	classification not possible
	Aspiration hazard	classification not possible

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Environmental hazards	Hazardous to t environment, s	the aquatic short-term (acute)	Category 1
	Hazardous to t environment, lo	the aquatic ong-term (chronic)	Category 1
	Hazardous to t	the ozone layer	classification not possible
Hazard pictograms (GHS JP)		¥_	
	GHS06	GHS09	
Signal word (GHS JP	")	: Danger	
Hazard statements (C	GHS JP)	: Harmful if swal Fatal if inhaled Very toxic to ac	
Precautionary statem	ents (GHS JP)		
Prevention		Wash hands, fr Do not eat, drir Use only outdo Avoid release t	dust/fume/gas/mist/vapors/spray. (P260) brearms and face thoroughly after handling. (P264) or smoke when using this product. (P270) bors or in a well-ventilated area. (P271) o the environment. (P273) dequate ventilation] wear respiratory protection. (P284)
Response		(P301+P312) IF INHALED: R breathing (P30	III a POISON CENTER or doctor. (P310) P330)
Storage			ventilated place. Keep container tightly closed.
Disposal			tents/container to hazardous or special waste collection lance with local, regional, national and/or international 01)

3. Composition/information on ingredients

Distinction of substance or mixture	:	Substance
Synonyms	:	2,2-Dimethyl-3-(2-methy-1-propenyl)-1-cyclopropanecalboxylicacid alpha- cyano-m-phenoxybenzyl

Name Concentration or Concentration range		Formula	Kanpo	CAS RN	
		i ornidia	CSCL no	ISHL no	CASIN
d·d-T-Cyphenothrin	≧95%、≦100%	C24H25NO3	(3)-3863	4-(7)-1375	39515-40-7

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.
Environmental precautions		
Environmental precautions	:	Avoid release to the environment.
		Prevent entry to sewers and public waters.
Methods and Equipment for Contai	inm	nent 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.

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	: Protective gloves
Eye protection	: Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection	: Protective clothing, Protective boots, Protective apron

9. Physical and chemical properties

Physical state	:	Solid
Appearance	:	Powder
Color	:	white
Odor	:	No data available
рН	:	No data available
Melting point	:	43.8 °C
Freezing point	:	No data available
Boiling point	:	154 °C (0.1mmHg)
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	< 0.0725 Pa (20, 30, 45℃)
Relative density	:	No data available
Density	:	No data available
Relative gas density	:	No data available
Solubility	:	Water: < 0.01 µg/l (25℃、pH7)
Partition coefficient n- octanol/water (Log Pow)	:	>6 (25℃、pH5.2)
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	:	No data available

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

d·d-T-Cyphenothrin			
Acute toxicity (oral)	Category 4		
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	classification not possible		
Serious eye damage/irritation	classification not possible		
Respiratory sensitization	classification not possible		
Skin sensitization	classification not possible		

d·d-T-Cyphenothrin		
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	classification not possible	
STOT-repeated exposure	classification not possible	
Aspiration hazard	classification not possible	

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

d·d-T-Cyphenothrin		
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	No data available	

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) Proper Shipping Name (IMDG) Packing group (IMDG) Transport hazard class(es) (IMDG) Hazard labels (IMDG) Class (IMDG)	 3349 PYRETHROID PESTICIDE, SOLID, TOXIC III 6.1 6.1 6.1
Division (IMDG) Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) Stowage category (IMDG)	 6.1 61, 223, 274 5 kg E1 P002, LP02 IBC08 B3 T1 TP33 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) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA) Hazard labels (IATA) Class (IATA) Division (IATA) PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	 3349 Pyrethroid pesticide, solid, toxic III 6.1 6.1 6.1 6.1 E1 Y645

PCA limited quantity max net	: 10kg
quantity (IATA) PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677 : 200kg
CAO max net quantity (IATA) Special provision (IATA)	: 200kg : A3, A5
ERG code (IATA)	: 6L
Marine pollutant	: Applicable
Regulations in Japan	
Regulatory information by sea Regulatory information by air MFAG-No	 Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law. 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	: Not applicable
Japanese Poisonous and Deleterious Substances Control Law	: Deleterious Substances (Designated Order Art.2) Organic cyanide compounds and preparations containing it (except for following (1)-(169))
Water Pollution Prevention Law	: Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)
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)
Waste Management on Public Cleansing Law	: Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment Order Art.2-4)
Sewerage Law	: Substances for Water Quality Standard (Act Art.12-2 Para.2, Enforcement Order Art.9-4)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	: Not applicable
Soil Contamination Countermeasures Law	: Designated Hazardous Substances (Act Art.2 Para.3, Enforcement Order Art.1)
16. Other information	
Data sources	: Handbook of 17120 Chemical Products, The Chemical Daily Co, Ltd.
	International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2016 Emergency Response Guidebook (ERG 2016).
Other information	 The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local
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regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.