

Acephate-d₆

Hayashi Pure Chemical Ind.,Ltd. Date of issue: 8/12/2013

Revision date: 4/20/2023

SDS code: Q7-10

Version: 02

Safety Data Sheet

1. Chemical product and company identification

Product name	:	Acephate-d ₆
SDS code	:	Q7-10
Company/undertaking identification HAYASHI PURE CHEMICA Address : 3-2-12 Uchihiran Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@h URL : https://www.hpc-j.co	oma npc-j	nchi, Chuo-ku, Osaka, Osaka, Japan
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

Ono 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	classification not possible
	Organic peroxides	No classification
	Corrosive to metals	classification not possible
	Desensitized explosives	No classification
Health hazards	Acute toxicity (oral)	Category 4
	Acute toxicity (dermal)	No classification
	Acute toxicity (inhalation:gas)	No classification
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	No classification
	Skin corrosion/irritation	No classification
	Serious eye damage/eye irritation	No classification
	Respiratory sensitization	classification not possible
	Skin sensitization	No classification
	Germ cell mutagenicity	No classification
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 1B
	Specific target organ toxicity (single exposure)	Category 1 (nervous system)

Revision date: 4/20/2023

Acephate-d 6 SDS code: Q7-10 Version: 02

Environmental hazards	Specific target or (repeated expose Aspiration hazard Hazardous to the environment, sho Hazardous to the environment, lon Hazardous to the	ure) d e aquatic prt-term (acute) e aquatic g-term (chronic)	Category 1 (nervous system, blood system, respiratory system) classification not possible Category 3 No classification classification not possible
Hazard pictograms (GHS JP)	<u></u>		
		GHS08	
Signal word (GHS JP)		Danger	
Hazard statements (G	HS JP) :	May damage ferti Causes damage t Causes damage t	sing cancer (H351) lity or the unborn child (H360) o organs (nervous system) (H370) o organs (nervous system, blood system, respiratory prolonged or repeated exposure (H372)
Precautionary stateme	ents (GHS JP)		
Prevention	:	Do not handle unt (P202) Do not breathe du Wash hands, fore Do not eat, drink o Avoid release to t	tructions before use. (P201) il all safety precautions have been read and understood. Ist/fume/gas/mist/vapors/spray. (P260) arms and face thoroughly after handling. (P264) or smoke when using this product. (P270) he environment. (P273) loves/protective clothing/eye protection/face protection.
Response	:	IF SWALLOWED (P301+P312) IF exposed or cor (P308+P311)	Call a POISON CENTER or doctor if you feel unwell. acerned: Call a POISON CENTER or doctor. re/attention if you feel unwell. (P314) 30)
Storage	:	Store locked up. (
Disposal	:		ts/container to hazardous or special waste collection ce with local, regional, national and/or international

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

Name	Concentration or	Formula	Kanpo	CAS RN	
Name	Concentration range	Tornula	CSCL no	ISHL no	CASIN
Acephate-d6	≧95% 、 ≦100%	C4H4D6NO3PS	-	2-(3)-168	2109699-73-0

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	:	Remove/Take off immediately all contaminated clothing.
contact		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	:	Use proper extinguishing media depending on peripheral fire.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
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.
Protection during firefighting	:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions. Protective Ec	uipment 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 Contain	ment 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	
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

9. Physical and chemical properties

:	Solid
:	Solid
:	white
:	Slightly acid odor
:	No data available
:	1.2 g/cm³ (20°C)
:	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	:	Nitrogen oxides, Sulfur oxides

11. Toxicological information

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

Acephate	
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)	No classification
Skin corrosion/irritation	No classification
Serious eye damage/irritation	No classification
Respiratory sensitization	classification not possible
Skin sensitization	No classification

Acephate	ephate				
Germ cell mutagenicity	No classification				
Carcinogenicity	Category 2				
Reproductive toxicity	Category 1B				
STOT-single exposure	Category 1				
STOT-repeated exposure	Category 1				
Aspiration hazard	classification not possible				

12. Ecological information

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

Acephate				
Hazardous to Aquatic Environment - Acute Hazard	Category 3			
Hazardous to Aquatic Environment - Chronic Hazard	Category 3			
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) Proper Shipping Name (IMDG) Packing group (IMDG) Transport hazard class(es) (IMDG)	:	Not applicable Not applicable Not applicable Not applicable
Air transport(IATA)		
UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA)	::	Not applicable Not applicable Not applicable Not applicable
Marine pollutant	:	Not applicable
Regulations in Japan Regulatory information by sea Regulatory information by air Special transport precautions	:	Not applicable Not applicable 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	:	Not applicable

Deleterious Substances Control Law		
Fire Service Law	:	Not applicable
Foreign Exchange and Foreign	:	Export Trade Control Order, Attached Table 1 Para.2
Trade Control Act		Export Trade Control Ordinance appendix 1-16

Trade Control ActExport Trade Control Ordinance appendix 1-16Japanese Pollutant Release and
Transfer Register Law (PRTR Law): Class 1 Designated Chemical Substances (Act Art.2 para. 2,
Enforcement Oder Art.1 Appended Table No.1)
(RS)-O,S-Dimethyl acetylphosphoramidothioate (synonym: Acephate)
(100%)

5/6

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).
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 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.