

Chlorfluazuron

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 5/31/2022

SDS code: Q2-06

Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name	
SDS code	

: Chlorfluazuron : Q2-06

Company/undertaking:identification:HAYASHI PURE CHEMICAL IND.,LTD.Address : 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, JapanTelephone : 06-6910-7305E-mail : shiyaku_kikaku@hpc-j.co.jpURL : https://www.hpc-j.co.jp/Emergency number: 06-6910-7305

2. Hazards identification

GHS classification

Physical hazards	Explosives	classification not possible
	Flammable gases	No classification
	Aerosol	classification not possible
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	No classification
	Flammable solids	No classification
	Self-reactive substances and mixtures	classification not possible
	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	classification not possible
	Oxidizing liquids	No classification
	Oxidizing solids	No classification
	Organic peroxides	classification not possible
	Corrosive to metals	classification not possible
	Desensitized eplosives	classification not possible
Health hazards	Acute toxicity (oral)	classification not possible
	Acute toxicity (dermal)	classification not possible
	Acute toxicity (inhalation:gas)	classification not possible
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	classification not possible
	Skin corrosion/irritation	classification not possible
	Serious eye damage/eye irritation	Category 2B
	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

Environmental hazards	Hazardous to the aquatic environment, short-term (acute)			Category 1
	Hazardous to environment,		aquatic g-term (chronic)	Category 1
	Hazardous to	the	ozone layer	classification not possible
Hazard pictograms (GHS JP)	GHS09			
Signal word (GHS JP)		:	Warning	
Hazard statements (G		:	Causes eye irritat Very toxic to aqua	ion (H320) atic life with long lasting effects (H410)
Precautionary stateme	ents (GHS JP)			
Prevention		:		arms and face thoroughly after handling. (P264) he environment. (P273)
Response		:	contact lenses, if (P305+P351+P33	rsists: Get medical advice/attention. (P337+P313)
Disposal		:		nts/container to hazardous or special waste collection ince with local, regional, national and/or international

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

	Concentration or		Kanpo			
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN	
Chlorfluazuron	≧99%、≦100%	C20H9Cl3F5N3O3	-	8-(1)-1809	71422-67-8	

The above concentration or concentration range are not product specification. All percentages listed in the above concentration or concentration range are mass%, 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 Co	ntainm	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

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Physical state	:	Solid
Appearance	:	Granular
Color	:	white
Odor	:	Odorless
рН	:	No data available
Melting point	:	222 – 223 °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 (solid, gas)	:	No data available
Vapor pressure	:	1.6×10⁻⁰ Pa (20°C)
Relative density	:	No data available
Density	:	1.5 g/cm³ (20°C)
Relative gas density	:	No data available
Solubility	:	Soluble in acetone. Soluble in ethyl acetate. Soluble in dichloromethane. Soluble in hexane. Water: 0.012 mg/l (20°C)
Partition coefficient n- octanol/water (Log Pow)	:	5.9
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	:	May react with strong oxidizing agents.
Conditions to avoid	:	Sunlight, heat. Contact with strong oxidizing agents.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Nitrogen oxides, Chlorine and its compounds, Fluorine and its compounds

11. Toxicological information

Chlorfluazuron	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	classification not possible
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	Category 2B
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
STOT-single exposure	classification not possible
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible

12. Ecological information

Chlorfluazuron				
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) Proper Shipping Name (IMDG) Packing group (IMDG) Transport hazard class(es) (IMDG) Hazard labels (IMDG) Class (IMDG)	 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. III 9 9 9
Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Packing provisions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) Stowage category (IMDG) MFAG-No	 274, 335, 966, 967, 969 5 kg E1 LP02, P002 PP12 IBC08 B3 BK1, BK2, BK3, T1 TP33 A 171
Air transport(IATA)	
UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA) Hazard labels (IATA) Class (IATA)	 3077 Environmentally hazardous substance, solid, n.o.s. III 9 9 9 9
PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA)	: E1 : Y956 : 30kgG
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provision (IATA) ERG code (IATA)	 956 400kg 956 400kg A97, A158, A179, A197, A215 9L
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. 171
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	:	Not applicable
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	:	Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Civil Aeronautics Law	:	Miscellaneous dangerous substances & articles (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)
Waterworks Law	:	Hazardous Substances (Act Article 4 paragraph 2), Standard for Water Quality (Ministry Order No.101 of 2003)
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)
46. Other information		

16. Other information

Data sources

Other information

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