

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 2/22/2022

SDS code: D6-08

Version: 01

# **Safety Data Sheet**

### 1. Chemical product and company identification

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Product name		
SDS code		

Carfentrazone-ethyl : D6-08

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND., LTD. Address : 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan Responsible department : Planning Group, Reagent & Chemical Product Department Telephone : 06-6910-7305 E-mail : shiyaku\_kikaku@hpc-j.co.jp URL : https://www.hpc-j.co.jp/ **Emergency number** 06-6910-7305 :

### 2. Hazards identification

#### **GHS** classification

Physical hazards	Desensitized eplosives	No classification
	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	classification not possible
	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)	No classification
	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	classification not possible
	Carcinogenicity	classification not possible
	Reproductive toxicity	No classification
	Specific target organ toxicity (single exposure)	classification not possible
	Specific target organ toxicity (repeated exposure)	Category 2 (liver)
	Aspiration hazard	classification not possible

Environmental hazards	Hazardous to the aquatic environment, short-term (acute)		Category 1 te)
	Hazardous to the aquatic environment, long-term (chronic)		Category 1
	Hazardous to t	the ozone laye	classification not possible
Hazard pictograms (GHS JP)		¥_	
	GHS08	GHS09	
Signal word (GHS JP	)	: Warning	
Hazard statements (G	GHS JP)	exposure	e damage to organs (liver) through prolonged or repeated (H373) to aquatic life with long lasting effects (H410)
Precautionary statem	ents (GHS JP)		
Prevention			eathe dust/fume/gas/mist/vapors/spray. (P260) ase to the environment. (P273)
Response			al advice/attention if you feel unwell. (P314) Ilage. (P391)
Disposal			f contents/container to hazardous or special waste collection ccordance with local, regional, national and/or international . (P501)

# 3. Composition/information on ingredients

Distinction of substance or mixture : Substance

	Concentration or		Kanpo		
Name	Concentration range	Formula	CSCL no	ISHL no	CAS RN
Carfentrazone-ethyl	≧95%、≦100%	C15H14Cl2F3N3O3	-	8-(3)-1016	128639-02-1

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.

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 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	nment and Cleaning up
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it.
	Collect leaking and spilled liquid in sealable containers as far as possible.
	Wash out the spilled area with large amounts of water.

# 7. Handling and storage

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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	: Gas 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, Protective long boots

## 9. Physical and chemical properties

Physical state	:	Liquid
Appearance	:	Viscous liquid
Color	:	yellow
Odor	:	Slightly petroleum odor
рН	:	No data available
Melting point	:	-22.1 °C
Freezing point	:	No data available
Boiling point	:	350 – 355 °C (760mmHg)
Flash point	:	229 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	1.6×10⁻⁵ Pa (25°C)
Relative density	:	No data available
Density	:	1.5 g/cm³ (20°C)
Relative gas density	:	No data available
Solubility	:	Soluble in toluene. Soluble in n-hexane. Water: 22 mg/l (25°C)
Partition coefficient n- octanol/water (Log Pow)	:	3.36 (20.3°C)
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	:	Nitrogen oxides, Fluorine and its compounds, Chlorine and its compounds

# 11. Toxicological information

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

Carfentrazone-ethyl		
Acute toxicity (oral)	No classification	
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	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	No classification	

Carfentrazone-ethyl			
STOT-single exposure	classification not possible		
STOT-repeated exposure	Category 2		
Aspiration hazard	classification not possible		

## 12. Ecological information

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

Carfentrazone-ethyl	ntrazone-ethyl		
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)

Transport by Sca(imbo)	
UN-No. (IMDG):Proper Shipping Name (IMDG):Packing group (IMDG):Transport hazard class(es) (IMDG):Hazard labels (IMDG):Class (IMDG):	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, 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):Tank instructions (IMDG):Tank special provisions (IMDG):Stowage category (IMDG):MFAG-No:	274, 335, 969 5 L E1 LP01, P001 PP1 IBC03 T4 TP1, TP29 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) :	3082 Environmentally hazardous substance, liquid, n.o.s. III 9 9 9
PCA Excepted quantities (IATA):PCA Limited quantities (IATA):PCA limited quantity max net:quantity (IATA):PCA packing instructions (IATA):PCA max net quantity (IATA):CAO packing instructions (IATA):CAO max net quantity (IATA):CAO max net quantity (IATA):Special provision (IATA):ERG code (IATA):	E1 Y964 30kgG 964 450L 964 450L A97, A158, 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
Fire Service Law	:	Group 4 - Flammable liquids - 4th Class petroleum (Law Art.2 Para.7, Attached Table 1, Group 4)
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)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Not applicable
16. Other information		
Data sources	:	Handbook of 17221 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 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.