

Penoxsulam

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 5/31/2022

SDS code: J1-11

Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name	
SDS code	

: Penoxsulam : J1-11

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/ Emergency number : 06-6910-7305

2. Hazards identification

GHS classification

Physical hazards	Explosives	classification not possible
r nyelear nazarao	Flammable gases	No classification
	Aerosol	classification not possible
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	No classification
	Flammable solids	classification not possible
	Self-reactive substances and mixtures	classification not possible
	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	classification not possible
	Oxidizing liquids	No classification
	Oxidizing solids	classification not possible
	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)	Category 4
	Skin corrosion/irritation	Category 2
	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 th environment, sh	ne aquatic nort-term (acute)	Category 1
	Hazardous to th	. ,	Category 1
	Hazardous to th	ne ozone layer	classification not possible
Hazard pictograms (GHS JP)	<u></u>	¥_2	
	GHS07	GHS09	
Signal word (GHS JP)) :	: Warning	
Hazard statements (G	SHS JP) :	Harmful if inha	nd eye irritation (H315+H320) Ied (H332) quatic life with long lasting effects (H410)
Precautionary stateme	ents (GHS JP)		
Prevention	:	Wash hands, f Use only outdo Avoid release	g dust/fume/gas/mist/vapors/spray. (P261) orearms and face thoroughly after handling. (P264) pors or in a well-ventilated area. (P271) to the environment. (P273) re gloves/protective clothing/eye protection/face protection.
Response	:	IF INHALED: F breathing (P30 IF IN EYES: R contact lenses (P305+P351+I Call a POISON If skin irritation If eye irritation	inse cautiously with water for several minutes. Remove , if present and easy to do. Continue rinsing. P338) N CENTER or doctor if you feel unwell. (P312) occurs: Get medical advice/attention. (P332+P313) persists: Get medical advice/attention. (P337+P313) minated clothing and wash it before reuse. (P362+P364)
Disposal	:		ntents/container to hazardous or special waste collection dance with local, regional, national and/or international 01)

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

News	Concentration or		Kanpo			
Name Concentration range		Formula	CSCL no	ISHL no	CAS RN	
Penoxsulam	≧95%、≦100%	C16H14F5N5O5S	-	8-(2)-2564	219714-96-2	

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 Containn	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

5 5		
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 incompatibl substances or mixtures	e :	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	:	Solid
Color	:	whitish
Odor	:	musty odor
рН	:	No data available
Melting point	:	212 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	214 °C
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.6 g/cm³ (20°C)
Relative gas density	:	No data available
Solubility	:	Soluble in acetone. Soluble in methanol. Soluble in acetonitrile. Slightly soluble in octanol. Water: 1.46 g/l (20°C)
Partition coefficient n- octanol/water (Log Pow)	:	-0.602
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. Decomposes due to light.	
Possibility of hazardous reactions	:	May react with oxidizing agents.	
Conditions to avoid	:	Sunlight, heat. Contact with oxidizing agents.	
Incompatible materials	:	Oxidizing agents	
Hazardous decomposition products	:	Nitrogen oxides, Sulfur oxides, Fluorine and its compounds	

11. Toxicological information

Penoxsulam	
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)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2B
Respiratory sensitization	classification not possible

Penoxsulam					
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

Penoxsulam			
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 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) PCA packing instructions (IATA)	: E1 : Y956 : 30kgG : 956

PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provision (IATA) ERG code (IATA)	:	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 Special transport precautions	:	Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law. 171 When transporting, load containers so that they do not tip over,

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	:	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)		
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Not applicable		
16. Other information				

Data sources : Handbook of 17322 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020). The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. Other information : 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.