

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 10/4/2021 Revision date: 7/13/2022

SDS code: W1-10 Ver

Version: 02

# Safety Data Sheet

## 1. Chemical product and company identification

•		
Product name	:	Kresoxim methyl
SDS code	:	W1-10
Company/undertaking identification HAYASHI PURE CHEMICAI Address : 3-2-12 Uchihiran Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@h URL : https://www.hpc-j.co.	oma pc-j	ichi, 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

GH5 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 eplosives	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	Category 2B
	Respiratory sensitization	classification not possible
	Skin sensitization	classification not possible
	Germ cell mutagenicity	No classification
	Carcinogenicity	Category 2
	Reproductive toxicity	No classification
	Specific target organ toxicity (single exposure)	Category 3 (Respiratory tract irritation.)

Revision date: 7/13/2022

	Specific target of (repeated expos		classification not possible
	Aspiration hazar	d	classification not possible
Environmental hazards	Hazardous to the environment, she		Category 1
	Hazardous to the environment, lon		Category 1
	Hazardous to the	e ozone layer	classification not possible
Hazard pictograms (GHS JP)	<u></u>		
	GHS07	GHS08 G	HS09
Signal word (GHS JP	) :	Warning	
Hazard statements (G	GHS JP) :	Suspected of car	tion (H320) ratory irritation (H335) using cancer (H351) atic life with long lasting effects (H410)
Precautionary statem	ents (GHS JP)		
Prevention	:	Do not handle ur (P202) Avoid breathing of Wash hands, for Use only outdoor Avoid release to	structions before use. (P201) htil all safety precautions have been read and understood dust/fume/gas/mist/vapors/spray. (P261) earms and face thoroughly after handling. (P264) rs or in a well-ventilated area. (P271) the environment. (P273) gloves/protective clothing/eye protection/face protection.
Response	:	breathing (P304- IF IN EYES: Rins contact lenses, if (P305+P351+P3 IF exposed or co Call a POISON (	se cautiously with water for several minutes. Remove present and easy to do. Continue rinsing. 38) ncerned: Get medical advice/attention. (P308+P313) CENTER or doctor if you feel unwell. (P312) ersists: Get medical advice/attention. (P337+P313)
Storage	:		entilated place. Keep container tightly closed.
Disposal	:	Dispose of conte	nts/container to hazardous or special waste collection nce 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	
Kresoxim methyl	≧95% <b>、</b> ≦100%	C18H19NO4	-	-	143390-89-0	

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	:	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

r croonarr recautions, r rotective Eq	
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

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 <b>Storage</b>	:	Avoid prolonged or repeated exposure.
•		Store looked up
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	:	white
Odor	:	Slightly aromatic odor
рН	:	No data available
Melting point	:	101.6 – 102.5 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	310 °C
Flammability (solid, gas)	:	No data available
Vapor pressure	:	2.3×10⁻⁰ Pa (20°C)
Relative density	:	No data available
Density	:	1.3 g/cm³ (20°C)
Relative gas density	:	No data available
Solubility	:	Water: 2.3 mg/l (20°C)
Partition coefficient n- octanol/water (Log Pow)	:	3.43 (25°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

#### **11. Toxicological information**

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

Kresoxim methyl	
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

Kresoxim methyl		
Serious eye damage/irritation	Category 2B	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	No classification	
Carcinogenicity	Category 2	
Reproductive toxicity	No classification	
STOT-single exposure	Category 3 (Respiratory tract irritation.)	
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.

Kresoxim methyl		
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)	: : :	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) PCA Excepted quantities (IATA)	::	3077 Environmentally hazardous substance, solid, n.o.s. III 9 9 9 E1

PCA Limited quantities (IATA) PCA limited quantity max net	: Y956 : 30kgG
quantity (IATA)	. Jungo
PCA packing instructions (IATA)	: 956 4001-
PCA max net quantity (IATA) CAO packing instructions (IATA)	: 400kg : 956
CAO max net quantity (IATA)	: 400kg
Special provision (IATA) ERG code (IATA)	: A97, A158, A179, A197, A215 : 9L
Marine pollutant	: Applicable
Regulations in Japan	
Regulatory information by sea	: Conform to the provisions of the Ship Safety Law.
Regulatory information by air	: Conform to the provisions of the Civil Aeronautics Law.
MFAG-No Special transport precautions	<ul> <li>171</li> <li>When transporting, load containers so that they do not tip over,</li> </ul>
	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 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)	: Class 1 Designated Chemical Substances (Act Art.2 para. 2, Enforcement Oder Art.1 Appended Table No.1) Methyl (E)-methoxyimino[2-(o-tolyloxymethyl)phenyl]acetate;
	kresoxim-methyl (100%) [After amendment of April 2023] Class 1 Designated Chamical Substances (Act. Art 2, Ders 2)
	Class 1 Designated Chemical Substances (Act, Art.2, Para.2, Enforcement Order, Art.1 Appended Table 1)
	Methyl (E)-methoxyimino[2-(o-tolyloxymethyl)phenyl]acetate
	(synonym: Kresoxim-methyl) (100%)
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).
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.