

HAYASHI[™] Solvent MS Dehydrating Solvent (for General use)

Hayashi Pure Chemical Ind.,Ltd. Date of issue: 5/18/2010 Revision date: 2/6/2023

SDS code: KF-10

Version: 07

Safety Data Sheet

1. Chemical product and company identification

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Product name	:	HAYASHI™ Solvent MS Dehydrating Solvent (for General use)
SDS code	:	KF-10

Company/undertaking

identification				
HAYASHI PURE CHEMICA	AL IND.,LTD.			
Address : 3-2-12 Uchihira	nomachi, Chuo-ku, Osaka, Osaka, Japan			
Telephone : 06-6910-7305				
E-mail : shiyaku_kikaku@	hpc-j.co.jp			
URL : https://www.hpc-j.co				
Emergency number	: 06-6910-7305			
Decommonded use	. For research and experimental use only			

Recommended use

: For research and experimental use only.

Restrictions on use

: Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc.

2. Hazards identification

GHS classification

GIIS 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	Category 2
	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 explosives	classification not possible
Health hazards	Acute toxicity (oral)	Category 4
	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	Category 2
	Serious eye damage/eye irritation	Category 1
	Respiratory sensitization	classification not possible
	Skin sensitization	Category 1
	Germ cell mutagenicity	classification not possible
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 1B
	Specific target organ toxicity (single exposure)	Category 1 (central nervous system, visual organ, systemic toxicity)

	Specific target organ toxicity (sing exposure)	Category 3 (Narcosis)			
	Specific target organ toxicity (repeated exposure)	Category 1 (central nervous system, visual organ)			
	Aspiration hazard	classification not possible			
Environmental hazards	Hazardous to the aquatic environment, short-term (acute)	Category 3			
	Hazardous to the aquatic environment, long-term (chronic)	classification not possible			
	Hazardous to the ozone layer	classification not possible			
Hazard pictograms (GHS JP)		! .			
	GHS02 GHS05	GHS07 GHS08			
Signal word (GHS JP) : Danger				
	Causes seriou May cause dru Suspected of May damage Causes dama toxicity) (H370 Causes dama prolonged or r	ritation (H315) allergic skin reaction (H317) is eye damage (H318) owsiness or dizziness (H336) causing cancer (H351) ertility or the unborn child (H360) ge to organs (central nervous system, visual organ, system			
Precautionary statem					
Prevention	 Obtain specia Do not handle (P202) Keep away fro sources. No s Ground and b Use explosion Use only non- Take action to Do not breath Wash hands, Do not eat, dr Use only outd Contaminated (P272) Avoid release Wear protective (P280) 	instructions before use. (P201) until all safety precautions have been read and understood m heat, hot surfaces, sparks, open flames and other ignitio moking. (P210) ond container and receiving equipment. (P240) -proof electrical/ventilating/lighting equipment. (P241) sparking tools. (P242) prevent static discharges. (P243) e dust/fume/gas/mist/vapors/spray. (P260) forearms and face thoroughly after handling. (P264) nk or smoke when using this product. (P270) bors or in a well-ventilated area. (P271) work clothing should not be allowed out of the workplace. to the environment. (P273) re gloves/protective clothing/eye protection/face protection. ED: Call a POISON CENTER or doctor if you feel unwell.			
Королос	(P301+P312) IF ON SKIN (d Rinse skin wit IF INHALED: breathing (P30 IF IN EYES: F contact lenses (P305+P351+ IF exposed or (P308+P311) Immediately c Get medical a Rinse mouth.	or hair): Take off immediately all contaminated clothing. n water . (P303+P361+P353) Remove person to fresh air and keep comfortable for 04+P340) inse cautiously with water for several minutes. Remove a, if present and easy to do. Continue rinsing. P338) concerned: Call a POISON CENTER or doctor. all a POISON CENTER or doctor. (P310) dvice/attention if you feel unwell. (P314)			

	Take off contaminated clothing and wash it before reuse. (P362+P364) In case of fire: Use specify appropriate media to extinguish. (P370+P378)
Storage	 Store in a well-ventilated place. Keep container tightly closed. (P403+P233) Store in a well-ventilated place. Keep cool. (P403+P235) Store locked up. (P405)
Disposal	 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

N	Concentration or		Kanpo		
Name Concentrati range		Formula	CSCL no	ISHL no	CAS RN
Methanol	78-88%	СНЗОН	(2)-201	Existing Chemical Substance	67-56-1
Salicylic acid	10-20%	C7H6O3	(3)-1640	Existing Chemical Substance	69-72-7
Additive	≦about 3%	Undisclosed	Undisclosed	Undisclosed	Undisclosed

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 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.
First-aid measures after ingestion	:	Get immediate medical advice/attention. Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media	:	Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
Fire hazard	:	Extremely flammable liquid and vapor.
Explosion hazard	:	Danger of the steam explosion in indoor, outdoor, sewer.
		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.
		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 :	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

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.
		Take precautionary measures against static discharge.
		Use explosion-proof equipment.
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	:	Cool and dark place

8. Exposure controls / Personal protection equipment

Exposure limit values		
Methanol		
Japan administration level	200ppm	
Exposure limits (JSOH)	200ppm(260mg/m3)(skin)	
Exposure limits (ACGIH)	TWA 200 ppm,STEL 250 ppm (Skin)	
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 for organic gases	
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, Impervious long boots	

9. Physical and chemical properties

-		•
Physical state	:	Liquid
Appearance	:	Liquid
Color	:	colorless transparent
Odor	:	characteristic odor
рН	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	12 °C (as 85% methanol aqueous solution)
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	No data available
Relative gas density	:	No data available
Solubility	:	No data available
Partition coefficient n- octanol/water (Log Pow)	:	No data available
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	:	Vapours form explosive mixtures with air. Heating decomposes and generates formaldehyde. Reacts with oxidizing agents, gives rise to danger of fire and explosion. May corrode metals.
Conditions to avoid	:	Sunlight, heat. Ignition sources such as flame, spark and static electricity. Contact with oxidizing agents and metals.
Incompatible materials	:	Oxidizing agents, Metals
Hazardous decomposition products	:	Formaldehyde

11. Toxicological information

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

As a product	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	classification not possible
Acute toxicity (inhalation)	vapors:classification not possible
	Gases:classification not possible
	dust, mist:classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 1
Respiratory sensitization	classification not possible
Skin sensitization	Category 1
Germ cell mutagenicity	classification not possible
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
STOT-single exposure	Category 1 Category 3 (Narcosis)
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
Methanol	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification

Methanol			
Acute toxicity (vapour)	No classification		
Acute toxicity (inhalation:dust/mist)	classification not possible		
Skin corrosion/irritation	classification not possible		
Serious eye damage/irritation	Category 2		
Respiratory sensitization	classification not possible		
Skin sensitization	No classification		
Germ cell mutagenicity	No classification		
Carcinogenicity	classification not possible		
Reproductive toxicity	Category 1B		
STOT-single exposure	Category 1 Category 3 (Narcosis)		
STOT-repeated exposure	Category 1		
Aspiration hazard	classification not possible		
Salicylic acid			
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)	classification not possible		
Skin corrosion/irritation	Category 2		
Serious eye damage/irritation	Category 1		
Respiratory sensitization	classification not possible		
Skin sensitization	Category 1		
Germ cell mutagenicity	No classification		
Carcinogenicity	classification not possible		
Reproductive toxicity	Category 2		
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.

As a product	
Hazardous to the aquatic environment, short-term (acute)	Category 3
Hazardous to the aquatic environment, long-term (chronic)	classification not possible
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible
Methanol	
Hazardous to Aquatic Environment - Acute Hazard	No classification
Hazardous to Aquatic Environment - Chronic Hazard	No classification
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
Salicylic acid	
Hazardous to Aquatic Environment - Acute Hazard	Category 3
Hazardous to Aquatic Environment - Chronic Hazard	No classification
Persistence and degradability	No data available

Salicylic acid		
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 Sea(IMDO)		
UN-No. (IMDG)	:	1993
Proper Shipping Name (IMDG)	:	FLAMMABLE LIQUID, N.O.S.
Packing group (IMDG)	:	ll
Transport hazard class(es) (IMDG)	:	3
Hazard labels (IMDG)	:	3
Class (IMDG)	:	3
Special provision (IMDG)	:	274
Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	Τ7
Tank special provisions (IMDG)	:	TP1, TP28, TP8
Stowage category (IMDG)	:	B
MFAG-No	:	127
Air transport(IATA)		
UN-No. (IATA)	:	1993
Proper Shipping Name (IATA)	:	Flammable liquid, n.o.s.
Packing group (IATA)	:	II
Transport hazard class(es) (IATA)	:	3
Hazard labels (IATA)	:	3
Class (IATA)	:	3
PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y341
PCA limited quantity max net	:	1L
quantity (IATA)		
PCA packing instructions (IATA)	:	353
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)		364
CAO max net quantity (IATA)	÷	60L
Special provision (IATA)	÷	A3
ERG code (IATA)	•	3H
Marine pollutant	:	Not 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	:	127
Special transport precautions	:	When transporting, load containers so that they do not ti

15. Regulatory information

National law		
Chemical Substances Control Law	:	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Industrial Safety and Health Law		Class 2 Organic Solvents etc. (Enforcement Order, Art., Appended Table 6-2, Ordinance on Prevention of Organic Solvent Poisoning, Art.1, Para.1, Item 4)
		Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2, Para.1)
		Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,
		Attached Table No.9) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)
		Methanol (Ordinance number : 560) lodine and its compounds (Ordinance number : 606, After
		amendment of April 2024 : 605) Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)
		Substances on Special medical examination, Current handling workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1) Substances on dental health checkup (Act, Art.66, Para.3, Enforcement Order, Art.22 Item 3)
Japanese Poisonous and Deleterious Substances Control Law	:	Not applicable
Fire Service Law	:	Group 4 - Flammable liquids - 1st Class petroleums - soluble (Law Art.2 Para.7, Attached Table 1, Group 4)
Air Pollution Control Law	:	Specified substances (Article 17, Paragraph 1 of the Law, Article 10 of the Enforcement Ordinance) Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice to Prefectures)
Foreign Exchange and Foreign	:	Export Trade Control Ordinance appendix 1-16
Trade Control Act	•	
Ship Safety Act	:	Flammable liquids (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Civil Aeronautics Law	:	Flammable liquids (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)
Port Regulation Law	:	Flammable liquids (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)
Road Act	:	Restriction for Vehicle Traffic (Enforcement Order Art.19-13, Publication of Japan Highway Pablic Corp.)
Waste Management on Public Cleansing Law	:	Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment Order Art.2-4)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Not applicable
Labor Standards Act	:	Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification No.36 of 1978)
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.

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.