

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 10/16/2023

SDS code: NC-10

10 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name	:	Diazepam-d₅ solution
SDS code	:	NC-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

Dhysical bazarda	Explosivos	algoritization not possible
Physical hazards	Explosives	classification not possible No classification
	Flammable gases	
	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	No classification
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)	Category 4
	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)	Category 3 (Narcosis)
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	Constitutorent of	raon tovicity (cinalo	Cotogon (2) (Boonizaton (troot invitation)
	exposure)	rgan toxicity (single	Category 3 (Respiratory tract irritation.)
	Specific target of (repeated exposed)		classification not possible
	Aspiration hazar	d	classification not possible
Environmental	Hazardous to the		classification not possible
hazards	environment, she		
	Hazardous to the environment, lon		classification not possible
	Hazardous to the		classification not possible
Hazard pictograms (GHS JP)		!>	
	GHS02	GHS07	
Signal word (GHS JP)) :	Danger	
Hazard statements (G	SHS JP) :	Causes eye irritat Harmful if inhaled May cause respire	
Precautionary statem	ents (GHS JP)	2	
Prevention	:	sources. No smol Ground and bond Use explosion-pro Use only non-spa Take action to pre Avoid breathing d Wash hands, fore Use only outdoors Wear protective g (P280)	l container and receiving equipment. (P240) pof electrical/ventilating/lighting equipment. (P241) Irking tools. (P242) event static discharges. (P243) lust/fume/gas/mist/vapors/spray. (P261) earms and face thoroughly after handling. (P264) s or in a well-ventilated area. (P271) loves/protective clothing/eye protection/face protection.
Response	:	Rinse skin with w IF INHALED: Ren breathing (P304+ IF IN EYES: Rins contact lenses, if (P305+P351+P33 Call a POISON C If eye irritation pe	e cautiously with water for several minutes. Remove present and easy to do. Continue rinsing.
Storage	:	(P403+P233)	ntilated place. Keep container tightly closed. ntilated place. Keep cool. (P403+P235) (P405)
Disposal	:		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 : Mixture

Name	Concentration or	Formula	Kanpo	CAS RN		
Inditio	Concentration range	Tornidia	CSCL no	ISHL no		
Ethyl acetate	≧98%	C4H8O2	(2)-726	Existing Chemical Substance	141-78-6	
Diazepam-d5	About 0.06%	C16D5H8CIN2O	-	8-(2)-1277	65854-76-4	

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. Get immediate medical advice/attention.
First-aid measures after ingestion	:	Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.
5. Fire fighting measures		
Suitable extinguishing media Unsuitable extinguishing media	:	Water spray, Foam, Dry powder, Carbon dioxide, Sand. Do not use a heavy water stream.

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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

reisonal riecaulions, riolective Lu	diplient 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	ment 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	
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

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	:	Freeze: -20°C

8. Exposure controls / Personal protection equipment

Exposure limit values	
Ethyl acetate	
Japan administration level	200ppm
Exposure limits (JSOH)	200ppm(720mg/m3)
Exposure limits (ACGIH)	TWA 400 ppm,STEL -
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

Liquid
Liquid
No data available
aromatic
No data available
-84 °C (as ethyl acetate)
No data available
77 °C (as ethyl acetate)
 -4 °C (as ethyl acetate, tag closed cup)
No data available
0.90 g/cm ³ (as ethyl acetate, 20 $^{\circ}$ C)
No data available
No data available
No data available
No data available
No data available
No data available

10. Stability and reactivity

Reactivity	:	No data available
Chemical stability	:	Stable under normal handling conditions.
Possibility of hazardous reactions	:	Reacts with oxidizing agents, acids and bases. Decomposes under the influence of acids and bases. Erodes aluminium and plastics.
Conditions to avoid	:	Sunlight, heat. Ignition sources such as sparks, flames and static electricity. Contact with oxidizing agents, acids and bases.
Incompatible materials	:	Oxidizing agents, Acids, Bases
Hazardous decomposition products	:	No data available

11. Toxicological information

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

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Aspiration hazardclassification not possibleDiazepamclassification not possibleAcute toxicity (oral)classification not possibleAcute toxicity (dermal)classification not possibleAcute toxicity (gas)classification not possibleAcute toxicity (vapour)No classificationAcute toxicity (inhalation:dust/mist)classification not possibleSkin corrosion/irritationclassification not possibleSerious eye damage/irritationclassification not possibleRespiratory sensitizationclassification not possible	STOT-single exposure	Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)
Acute toxicity (oral)classification not possibleAcute toxicity (dermal)classification not possibleAcute toxicity (gas)classification not possibleAcute toxicity (vapour)No classificationAcute toxicity (inhalation:dust/mist)classification not possibleSkin corrosion/irritationclassification not possibleSerious eye damage/irritationclassification not possibleRespiratory sensitizationclassification not possible	STOT-repeated exposure	No classification
Acute toxicity (oral)classification not possibleAcute toxicity (dermal)classification not possibleAcute toxicity (gas)classification not possibleAcute toxicity (vapour)No classificationAcute toxicity (inhalation:dust/mist)classification not possibleSkin corrosion/irritationclassification not possibleSerious eye damage/irritationclassification not possibleRespiratory sensitizationclassification not possible	Aspiration hazard	classification not possible
Acute toxicity (oral)classification not possibleAcute toxicity (dermal)classification not possibleAcute toxicity (gas)classification not possibleAcute toxicity (vapour)No classificationAcute toxicity (inhalation:dust/mist)classification not possibleSkin corrosion/irritationclassification not possibleSerious eye damage/irritationclassification not possibleRespiratory sensitizationclassification not possible	Diazepam	
Acute toxicity (dermal)classification not possibleAcute toxicity (gas)classification not possibleAcute toxicity (vapour)No classificationAcute toxicity (inhalation:dust/mist)classification not possibleSkin corrosion/irritationclassification not possibleSerious eye damage/irritationclassification not possibleRespiratory sensitizationclassification not possible		classification not possible
Acute toxicity (gas)classification not possibleAcute toxicity (vapour)No classificationAcute toxicity (inhalation:dust/mist)classification not possibleSkin corrosion/irritationclassification not possibleSerious eye damage/irritationclassification not possibleRespiratory sensitizationclassification not possible		
Acute toxicity (inhalation:dust/mist)classification not possibleSkin corrosion/irritationclassification not possibleSerious eye damage/irritationclassification not possibleRespiratory sensitizationclassification not possible		
Skin corrosion/irritationclassification not possibleSerious eye damage/irritationclassification not possibleRespiratory sensitizationclassification not possible	Acute toxicity (vapour)	No classification
Serious eye damage/irritationclassification not possibleRespiratory sensitizationclassification not possible	Acute toxicity (inhalation:dust/mist)	classification not possible
Respiratory sensitization classification not possible	Skin corrosion/irritation	classification not possible
	Serious eye damage/irritation	classification not possible
Skin sensitization classification not possible	Respiratory sensitization	
	Skin sensitization	classification not possible
Germ cell mutagenicity classification not possible	Germ cell mutagenicity	classification not possible
Carcinogenicity classification not possible	Carcinogenicity	classification not possible
Reproductive toxicity classification not possible	Reproductive toxicity	classification not possible

Diazepam				
STOT-single exposure	classification not possible			
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.

As a product			
Hazardous to the aquatic environment, short-term (acute)	classification not possible		
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		
Ethyl acetate			
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		
Diazepam			
Hazardous to Aquatic Environment - Acute Hazard	classification not possible		
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible		
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 sea(inibo)		
UN-No. (IMDG)	:	1993
Proper Shipping Name (IMDG)	:	FLAMMABLE LIQUID, N.O.S.
Packing group (IMDG)	:	II
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)	:	В
MFAG-No	:	128

Air transport(IATA)

Air transport(IATA)	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA) Packing group (IATA)	: Flammable liquid, n.o.s. : II
Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3
Class (IATA)	: 3
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA) PCA limited quantity max net	: Y341 : 1L
quantity (IATA)	
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA) CAO packing instructions (IATA)	: 5L : 364
CAO max net quantity (IATA)	: 504 : 60L
Special provision (IATA)	: A3
ERG code (IATA)	: 3H
Marine pollutant	: Not applicable
Regulations in Japan	
Regulatory information by sea Regulatory information by air	 Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law.
MFAG-No Special transport precautions	 128 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	: 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 Evolution Standarda, Administrative Control
	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)
	Ethyl acetate (Ordinance number : 177)
	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)
Japanese Poisonous and Deleterious Substances Control Law	: Not applicable
Water Pollution Prevention Law	: Designated Chemical Substances (Law Article 2, Paragraph 4, Enforcement Order Article 3-3)
Narcotics and Psychotropics Control Act	: Exclusions from Class 3 Psychotropics (Law Art.50-25, Ordinance Attached Table 2)
Fire Service Law	: Group 4 - Flammable liquids - 1st Class petroleums - Insoluble (Law Art.2 Para.7, Attached Table 1, Group 4)
Offensive Odor Control Law	: Specified Offensive Odor Substances (Law Art.2-1, Enforcement Order Art.1)
Air Pollution Control Law	: Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice to Prefectures)
Foreign Exchange and Foreign Trade Control Act	: Export Trade Control Order, Attached Table 1 Para.2 Export Trade Control Ordinance appendix 1-16
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)
Dood Act	Destriction for Vahiela Traffia (Enforcement Order Art 10.12

:

Road Act

Waste Management on Public Cleansing Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Labor Standards Act	::	Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment Order Art.2-4) Not applicable 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 17423 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.