

NAGINATA Internal standard (for drugs)

Hayashi Pure Chemical Ind.,Ltd.

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Safety Data Sheet

1. Chemical product and company identification

NAGINATA Internal standard (for drugs) **Product name**

SDS code R6-17

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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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

Physical hazards **Explosives** classification not possible

> Flammable gases No classification

classification not possible Aerosol

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

No classification Pyrophoric liquids No classification Pyrophoric solids

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

classification not possible

No classification Oxidizing liquids No classification Oxidizing solids

Organic peroxides classification not possible classification not possible Corrosive to metals

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)

exposure)

Specific target organ toxicity (single Category 3 (Respiratory tract irritation.)

Specific target organ toxicity

(repeated exposure)

classification not possible

Aspiration hazard

classification not possible classification not possible

Environmental hazards

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic

environment, long-term (chronic)

classification not possible

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)





GHS07

Signal word (GHS JP) Danger

Hazard statements (GHS JP) Highly flammable liquid and vapor (H225)

Causes eve irritation (H320) Harmful if inhaled (H332)

May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336)

Precautionary statements (GHS JP)

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. (P210)

Ground and bond container and receiving equipment. (P240) Use explosion-proof electrical/ventilating/lighting equipment. (P241)

Use only non-sparking tools. (P242)

Take action to prevent static discharges. (P243)

Avoid breathing dust/fume/gas/mist/vapors/spray. (P261)

Wash hands, forearms and face thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

Response IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . (P303+P361+P353)

IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

(P305+P351+P338)

Call a POISON CENTER or doctor if you feel unwell. (P312) If eye irritation persists: Get medical advice/attention. (P337+P313)

In case of fire: Use specify appropriate media to extinguish. (P370+P378)

Store in a well-ventilated place. Keep container tightly closed. Storage

(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

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	CASIN
Ethyl acetate	≧98%	C4H8O2	(2)-726	Existing Chemical Substance	141-78-6
Diazepam-d5	About 0.001%	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 : W

Water spray, Foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media
Fire hazard

Do not use a heavy water stream.

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

Firefighting instructions

In case of fire, product may produce irritative or toxic fumes/gases.

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 Containment 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
Technical measures

: Light shielding airtight container.

: 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

Physical state : Liquid
Appearance : Liquid

Color : No data available
Odor : Aromatic odor
pH : No data available

Melting point : -84 °C (as ethyl acetate)

Freezing point : No data available

Boiling point : 77 °C (as ethyl acetate)

Flash point : -4 °C (as ethyl acetate, tag closed cup)

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 : 0.90 g/cm³ (as ethyl acetate, 20°C)

Relative gas density : No data available
Solubility : No data available
Partition coefficient n- : No data available

octanol/water (Log Pow)

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 : 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 flame, spark and static electricity.

Contact with oxidizing agents, acids and bases.

Incompatible materials : Oxidizing agents, Acids, Bases

Hazardous decomposition : No data available

products

11. Toxicological information

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

d on the "GHS Classification Results" by NITE.	
classification not possible	
classification not possible	
vapors:Category 4	
Gases:classification not possible	
dust, mist:classification not possible	
classification not possible	
Category 2B classification not possible	
classification not possible	
classification not possible	
classification not possible	
classification not possible	
Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)	
classification not possible	
classification not possible	
No classification	
No classification	
No classification	
Category 4	
classification not possible	
No classification	
Category 2B	
classification not possible	
No classification	
No classification	
classification not possible	
classification not possible	
Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)	
No classification	
classification not possible	
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No classification	
classification not possible	
classification not possible classification not possible	
classification not possible classification not possible classification not possible classification not possible	
classification not possible	
classification not possible classification not possible classification not possible 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.

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As a product				
Hazardous to the aquatic environment,	classification not possible			
short-term (acute)				
Hazardous to the aquatic environment,	classification not possible			
long-term (chronic)				
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 -	No classification			
Acute Hazard				
Hazardous to Aquatic Environment -	No classification			
Chronic Hazard				
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 -	classification not possible			
Hazardous to Aquatic Environment -	classification not possible			
Chronic Hazard	classification not possible			
Persistence and degradability	No data available			
Diagonum ulativa natantial	No data available			
Bioaccumulative potential				
Mobility in soil	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) : 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) : T7

Tank special provisions (IMDG) : TP1, TP28, TP8

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Stowage category (IMDG) : B MFAG-No : 128

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 : 128

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 : 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)
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

Water Pollution Prevention Law : Designated Chemical Substances (Law Article 2, Paragraph 4,

Not applicable

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)

Road Act

: Restriction for Vehicle Traffic (Enforcement Order Art.19-13,

Publication of Japan Highway Pablic Corp.)

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.