

NAGINATA Criteria sample Mix (for drugs)

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 1/13/2022 Revision date: 7/21/2022 SDS code: P6-13 Version: 02

Safety Data Sheet

1. Chemical product and company identification

Product name : NAGINATA Criteria sample Mix (for drugs)

SDS code : P6-13

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

Health hazards

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 classification not possible

Flammable solids No classification

Self-reactive substances and

mixtures

classification not possible

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

classification not possible

Oxidizing liquids classification not possible

Oxidizing solids No classification

Organic peroxides classification not possible
Corrosive to metals classification not possible
Desensitized eplosives classification not possible
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 Category 2
Serious eye damage/eye irritation Category 2A

Respiratory sensitization classification not possible
Skin sensitization classification not possible
Germ cell mutagenicity classification not possible

Carcinogenicity Category 1A Reproductive toxicity Category 2

Specific target organ toxicity (single Category 1 (central nervous system, respiratory

exposure) system)

Specific target organ toxicity (single Category 3 (Narcosis)

exposure)

Specific target organ toxicity Category 1 (liver, central nervous system, male

(repeated exposure) genitalia)

Aspiration hazard classification not possible

Environmental Hazardous to the aquatic Category 3 hazards environment, short-term (acute)

environment, short-term (acute)

Hazardous to the aquatic Category 3

Hazardous to the aquatic environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)



GHS07

GHS08

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : Causes skin irritation (H315)

Causes serious eye irritation (H319)

Harmful if inhaled (H332)

May cause drowsiness or dizziness (H336)

May cause cancer (H350)

Suspected of damaging fertility or the unborn child (H361)

Causes damage to organs (central nervous system, respiratory system)

(H370)

Causes damage to organs (liver, central nervous system, male genitalia)

through prolonged or repeated exposure (H372) Harmful to aquatic life with long lasting effects (H412)

Precautionary statements (GHS JP)

Prevention : Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood.

(P202)

Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

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

(P280)

Response : IF ON SKIN: Wash with plenty of water. (P302+P352)

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)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

Get medical advice/attention if you feel unwell. (P314)

If skin irritation occurs: Get medical advice/attention. (P332+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)

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

(P403+P233)

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)

Revision date: 7/21/2022

3. Composition/information on ingredients

Distinction of substance or mixture Mixture

Name	Concentration or	Formula	Kanpo	Kanpo number	
Name	Concentration range	Torrida	CSCL no	ISHL no	CAS RN
Dichloromethane	≧98%	CH2Cl2	(2)-36	Existing Chemical Substance	75-09-2
2,4-Dichloroaniline	About 0.00008%	C6H5Cl2N	(3)-261	Existing Chemical Substance	554-00-7
2,4-Dinitroaniline	About 0.00008%	C6H5N3O4	(3)-403	4-(12)-212	97-02-9
2,6-Dichlorophenol	About 0.00008%	C6H4Cl2O	(3)-930	Existing Chemical Substance	87-65-0
2,6-Dimethylanilin	About 0.00008%	C8H11N	(3)-129	Existing Chemical Substance	87-62-7
2,6-Dimethylphenol	About 0.00008%	C8H10O	(3)-521, (4)-57	Existing Chemical Substance	576-26-1
Captan	About 0.00008%	C9H8Cl3NO2S	(9)-934	8-(1)-635	133-06-2
Fenitrothion	About 0.00008%	C9H12NO5PS	(3)-2616	4-(9)-232	122-14-5
Isoxathion	About 0.00008%	C13H16NO4PS	-	-	18854-01-8
Simazine	About 0.00008%	C7H12CIN5	(5)-3846	Existing Chemical Substance	122-34-9
Benzothiazole	About 0.00008%	C7H5NS	(5)-3426	Existing Chemical Substance	95-16-9
Diethyl phthalate	About 0.00008%	C12H14O4	(3)-1301, (7)-705	Existing Chemical Substance	84-66-2
Tributyl phosphate	About 0.00008%	C12H27O4P	(2)-2000, (2)-2021	Existing Chemical Substance	126-73-8
Pentachlorophenol	About 0.00038%	C6HCI5O	(3)-2850	4-(10)-585	87-86-5
Tris(2-chloroethyl) phosphate	About 0.00008%	C6H12Cl3O4P	(2)-1941	Existing Chemical Substance	115-96-8
DFTPP	About 0.00038%	C18H5F10P	-	-	5074-71-5
Butyl benzyl phthalate	About 0.00008%	C19H20O4	(3)-1312	Existing Chemical Substance	85-68-7
Undecane	About 0.00008%	C11H24	(2)-10	Existing Chemical Substance	1120-21-4
Dodecane	About 0.00008%	C12H26	(2)-10	Existing Chemical Substance	112-40-3
Tridecane	About 0.00008%	C13H28	(2)-10	Existing Chemical Substance	629-50-5
Tetradecane	About 0.00008%	C14H30	(2)-10	Existing Chemical Substance	629-59-4
Pentadecane	About 0.00008%	C15H32	(2)-10	Existing Chemical Substance	629-62-9
Hexadecane	About 0.00008%	C16H34	(2)-10	Existing Chemical Substance	544-76-3

Heptadecane	About 0.00008%	C17H36	(2)-10	Existing Chemical Substance	629-78-7
Octadecane	About 0.00008%	C18H38	(2)-10	Existing Chemical Substance	593-45-3
Nonadecane	About 0.00008%	C19H40	(2)-10	Existing Chemical Substance	629-92-5
Eicosane	About 0.00015%	C20H42	(2)-10	Existing Chemical Substance	112-95-8
Heneicosane	About 0.00008%	C21H44	(2)-10	-	629-94-7
Docosane	About 0.00008%	C22H46	(2)-10	-	629-97-0
Tricosane	About 0.00008%	C23H48	(2)-10	-	638-67-5
Tetracosane	About 0.00008%	C24H50	(2)-10	-	646-31-1
Pentacosane	About 0.00008%	C25H52	(2)-10	-	629-99-2
Hexacosane	About 0.00008%	C26H54	(2)-10	Existing Chemical Substance	630-01-3
Heptacosane	About 0.00008%	C27H56	(2)-10	-	593-49-7
Octacosane	About 0.00008%	C28H58	(2)-10	-	630-02-4
Nonacosane	About 0.00008%	C29H60	(2)-10	-	630-03-5
Triacontane	About 0.00015%	C30H62	-	2-(1)-17	638-68-6
Hentriacontane	About 0.00015%	C31H64	-	2-(1)-17	630-04-6
Dotriacontane	About 0.00015%	C32H66	-	2-(1)-17	544-85-4
Tritriacontane	About 0.00015%	C33H68	-	2-(1)-17	630-05-7
Diazepam-d5	About 0.00008%	C16D5H8CIN2O	-	8-(2)-1277	65854-76-4

The above concentration or concentration range are not product specification.

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

First-aid measures after eye

contact

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water. Get immediate medical advice/attention.

15.15

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

Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media

Do not use a heavy water stream.

Hazardous decomposition products

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

in case of fire

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

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.

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.

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		
Dichloromethane		
Japan administration level	50ppm	
Exposure limits (JSOH)	50ppm(170mg/m3) [Ceiling]100ppm(340mg/m3)(skin)	
Exposure limits (ACGIH)	TWA 50 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, Protective long boots

9. Physical and chemical properties

Physical state : Liquid Appearance : Liquid

Color : No data available
Odor : characteristic odor
pH : No data available
Melting point : No data available
Freezing point : No data available

Boiling point : 40.2 °C (as dichloromethane)

Flash point : No data available
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 : 1.3 g/cm³ (as dichloromethane)

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 : Decomposes due to contact with high temperature and flame, and produces

phosgene and hydrogen chloride. Reacts with strong oxidizing agents,

strong bases, alkali metals and aluminium.

Conditions to avoid : Sunlight, heat. Ignition sources such as high temperature, flame, spark and

static electricity. Contact with strong oxidizing agents, strong bases, alkali

metals and aluminium.

Incompatible materials : Strong oxidizing agents, Strong bases, Alkali metals, Aluminium

Hazardous decomposition : Chlorine, Hydrogen chloride, Phosgene

products

11. Toxicological information

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

As a product	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (inhalation)	vapors:Category 4
	Gases:classification not possible
	dust, mist:classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2A
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2

Revision date: 7/21/2022 SDS code: P6-13

As a product	
STOT-single exposure	Category 1 Category 3 (Narcosis)
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
Dichloromethane	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	Category 4
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2A
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
STOT-single exposure	Category 1 Category 3 (Narcosis)
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)	Category 3
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible
Dichloromethane	
Hazardous to Aquatic Environment - Acute Hazard	Category 3
Hazardous to Aquatic Environment - Chronic Hazard	Category 3
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 Empty the packaging completely prior to disposal.

packaging 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) Not applicable Proper Shipping Name (IMDG) Not applicable Packing group (IMDG) Not applicable Transport hazard class(es) (IMDG) Not applicable

Air transport(IATA)

UN-No. (IATA) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Packing group (IATA) : Not applicable
Transport hazard class(es) (IATA) : Not applicable

Marine pollutant : Not applicable

Regulations in Japan

Regulatory information by sea : Not applicable Regulatory information by air : Not applicable

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

Chemical Substances Control Law : Class I Specified Chemical Substances (Law Art.2, Para.2,

Enforcement Order Art.1)

Priority Assessment Chemical Substances (Law Article 2, Para.5)

Industrial Safety and Health Law : Group 2 Specified Chemical Substance, Special Organic Solvents

(Ordinance on Prevention of Hazards Due to Specified Chemical

Substances Art.2 Para.1, Items 2, 3-2, 3-3)

Mutagenic Existing Chemicals (Act, Art.57-5, Official Notice by

Director of Labor Standards Bureau)

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)

Published Substances of the Guidelines for Preventing the

Impairment of Workers' Health (Act, Art.28, Para.3, MHLW Noticed

Guideline)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9) Dichloromethane (Ordinance number: 257)

Specified Chemical Substances, Special Control Substances (Ordinance on Prevention of Hazards Due to Specified Chemical

Substances Art.38-3)

Substances on Special medical examination, Current handling workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1) Substances on Special medical examination, Past handling workers

(Act, Art.66, Para.2, Enforcement Order, Art.22 Item 2)

Japanese Poisonous and

Deleterious Substances Control Law

Water Pollution Prevention Law

Not applicable

: Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)

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 : Not applicable

Air Pollution Control Law : Hazardous Air Pollutants (Central Environment Council Report No. 9)

Hazardous Air Pollutants, Priority Substances (Central Environment

Council Report No. 9)

Substances with Self-Imposed Control (Notification of Environment

Agency)

Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice

to Prefectures)

Volatile organic compounds (Article 2, Paragraph 4 of the Act) (2002

VOC emission survey report)

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Order, Attached Table 1 Para.2 Export Trade Control Ordinance appendix 1-16

Export Approval (Export Trade Control Order, Attached Table 2)

Waste Management on Public

Cleansing Law

Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment

Order Art.2-4)

Waterworks Law : Hazardous Substances (Act Article 4 paragraph 2), Standard for

Water Quality (Ministry Order No.101 of 2003)

Sewerage Law : Substances for Water Quality Standard (Act Art.12-2 Para.2,

Enforcement Order Art.9-4)

Japanese Pollutant Release and : Class 1 Designated Chemical Substances (Act Art.2 para. 2, Transfer Register Law (PRTR Law) : Enforcement Oder Art.1 Appended Table No.1)

Dichloromethane; methylene dichloride (≧98%)

[After amendment of April 2023]

Class 1 Designated Chemical Substances (Act, Art.2, Para.2,

Enforcement Order, Art.1 Appended Table 1)

Dichloromethane (synonym: Methylene dichloride) (≥98%)

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

Carcinogens (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item

7)

Soil Contamination : Designated Hazardous Substances (Act Art.2 Para.3, Enforcement

Order Art.1)

16. Other information

Countermeasures Law

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.