

PL Veterinary LC/MS Mix2

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 6/17/2021 Revision date: 7/28/2022 SDS code: D5-15 Version: 02

Safety Data Sheet

1. Chemical product and company identification

PL Veterinary LC/MS Mix2 **Product name**

SDS code D5-15

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.

Do not use for any purpose other than research and experiment. Do not use on a Restrictions on use

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** No classification

> Flammable gases No classification Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Flammable liquids Category 2 Flammable solids No classification Self-reactive substances and No classification

mixtures

No classification Pyrophoric liquids Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

No classification

No classification Oxidizing liquids No classification Oxidizing solids No classification Organic peroxides

classification not possible Corrosive to metals Desensitized eplosives classification not possible Acute toxicity (oral) classification not possible

Acute toxicity (dermal) Category 3

Acute toxicity (inhalation:gas) classification not possible

Acute toxicity (inhalation:vapors) Category 4

Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation No classification Serious eye damage/eye irritation Category 2

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 Category 1 (respiratory system, central nervous

exposure) system)

Specific target organ toxicity

(repeated exposure)
Aspiration hazard

Category 2 (blood system, respiratory system, central

nervous system, kidneys, liver) classification not possible

Environmental hazards

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

classification not possible

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

classification not possible

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)







GHS02

GHS06

GHS08

Signal word (GHS JP)

: Danger

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

Toxic in contact with skin (H311) Causes serious eye irritation (H319)

Harmful if inhaled (H332)

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

(H370)

May cause damage to organs (blood system, respiratory system, central nervous system, kidneys, liver) through prolonged or repeated exposure

(H373)

Precautionary statements (GHS JP)

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

sources. No smoking. (P210)

Keep container tightly closed. (P233)

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)

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)

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)

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

(P308+P311)

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

If eye irritation persists: Get medical advice/attention. (P337+P313)
Take off immediately all contaminated clothing and wash it before reuse.

(P361+P364)

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

Storage : 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

| | Concentration or Concentration range | Formula | Kanpo number | | |
|----------------------------|--|------------------|--------------|-----------------------------------|-------------|
| Name | | | CSCL no | ISHL no | CAS RN |
| Acetonitrile | ≧98% | CH3CN | (2)-1508 | Existing Chemical Substance | 75-05-8 |
| Flumequine | About 0.0025% | C14H12FNO3 | - | 8-(1)-1946 | 42835-25-6 |
| Oxolinic acid | About 0.0025% | C13H11NO5 | (9)-216 | Existing Chemical Substance | 14698-29-4 |
| Piromidic acid | About 0.0025% | C14H16N4O3 | (9)-704 | Existing Chemical Substance | 19562-30-2 |
| Miloxacin | About 0.0025% | C12H9NO6 | - | - | 37065-29-5 |
| Enrofloxacin | About 0.0025% | C19H22FN3O3 | - | - | 93106-60-6 |
| Orbifloxacin | About 0.0025% | C19H20F3N3O3 | - | 8-(2)-1576 | 113617-63-3 |
| Ofloxacin | About 0.0025% | C18H20FN3O4 | - | - | 82419-36-1 |
| Ciprofloxacin | About 0.0025% | C17H18FN3O3 | - | - | 85721-33-1 |
| Danofloxacin | About 0.0025% | C19H20FN3O3 | - | - | 112398-08-0 |
| Marbofloxacin | About 0.0025% | C17H19FN4O4 | (5)-6558 | - | 115550-35-1 |
| Norfloxacin | About 0.0025% | C16H18FN3O3 | - | 8-(2)-1224 | 70458-96-7 |
| Difloxacin | About 0.0025% | C21H19F2N3O3 | - | - | 98106-17-3 |
| Nalidixic Acid | About 0.0025% | C12H12N2O3 | - | - | 389-08-2 |
| Sarafloxacin hydrochloride | About 0.0025% (as free) | C20H17F2N3O3·HCI | - | - | 91296-87-6 |

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 imr

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

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

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

: Do not use a heavy water stream.

Unsuitable extinguishing media

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

Fire hazard

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

olaces

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

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

Light shielding airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Freeze: -20°C

8. Exposure controls / Personal protection equipment

| Exposure limit values | |
|-------------------------|--------------------------|
| Acetonitrile | |
| Exposure limits (ACGIH) | TWA 20 ppm,STEL - (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, Protective long boots

9. Physical and chemical properties

Physical state : Liquid Appearance : Liquid

Color : No data available
Odor : No data available
pH : No data available
Melting point : -45 °C (as acetonitrile)
Freezing point : No data available
Boiling point : 82 °C (as acetonitrile)

Flash point : 9.5 °C (as acetonitrile, 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 : 0.80 g/cm³ (as acetonitrile)

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 : React with strong oxidizing agents, pose a risk of fire and explosion. React

with acids and bases, generate a toxic gas. Erode plastics and rubbers.

Conditions to avoid : Sunlight, moisture, heat. Ignition sources such as spark, flame and static

electricity. Contact with oxidizing agents, reducing agents, acids and bases. Contact with vinyl chloride resin, polystyrene, polycarbonate, etc.

Incompatible materials : Oxidizing agents, Reducing agents, Acids, Bases, Vinyl chloride resin,

Polystyrene, Polycarbonate, etc

Hazardous decomposition : Nitrogen oxides, Hydrogen cyanide

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) | Category 3 |
| Acute toxicity (inhalation) | vapors:Category 4 |
| | Gases:classification not possible |

| As a product | |
|---------------------------------------|--|
| | dust, mist:classification not possible |
| Skin corrosion/irritation | No classification |
| Serious eye damage/irritation | Category 2 |
| 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 |
| STOT-single exposure | Category 1 |
| STOT-repeated exposure | Category 2 |
| Aspiration hazard | classification not possible |
| Acetonitrile | |
| Acute toxicity (oral) | No classification |
| Acute toxicity (dermal) | Category 3 |
| Acute toxicity (gas) | No classification |
| Acute toxicity (vapour) | Category 4 |
| Acute toxicity (inhalation:dust/mist) | classification not possible |
| Skin corrosion/irritation | No classification |
| Serious eye damage/irritation | Category 2 |
| 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 |
| STOT-single exposure | Category 1 |
| STOT-repeated exposure | Category 2 |
| Aspiration hazard | classification not possible |
| STOT-single exposure | No data available |
| STOT-repeated exposure | No data available |
| Aspiration hazard | No data available |

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 |
| Acetonitrile | |
| Hazardous to Aquatic Environment - Acute Hazard | No classification |
| Hazardous to Aquatic Environment - Chronic Hazard | No classification |
| Chilothic Hazaru | |
| Persistence and degradability | No data available |
| 0.11.01.10.10.10.10 | No data available No data available |
| Persistence and degradability | 1.12 4.01.0. 0.14.11.01.11 |

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) 1992

Proper Shipping Name (IMDG) FLAMMABLE LIQUID, TOXIC, N.O.S.

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 3 (6.1) Hazard labels (IMDG) 3,6.1 Class (IMDG) 3 Subsidiary hazard (IMDG) 6.1 274

Special provision (IMDG) 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) TP2, TP13

Stowage category (IMDG) В

Properties and observations (IMDG) Flammable toxic liquid which is not specified by name in this class or,

on account of its characteristics, in some other class. Toxic if

swallowed, by skin contact or by inhalation.

MFAG-No 131

Air transport(IATA)

UN-No. (IATA) 1992

Proper Shipping Name (IATA) Flammable liquid, toxic, n.o.s.

Packing group (IATA) Ш Transport hazard class(es) (IATA) 3 (6.1) Hazard labels (IATA) 3, 6.1 Class (IATA) 3 Subsidiary hazards (IATA) 6.1 PCA Excepted quantities (IATA) E2 PCA Limited quantities (IATA) Y341 PCA limited quantity max net 1L

quantity (IATA)

PCA packing instructions (IATA) 352 PCA max net quantity (IATA) 1L CAO packing instructions (IATA) 364 CAO max net quantity (IATA) 60L Special provision (IATA) А3 ERG code (IATA) 3HP

Marine pollutant Not applicable

Regulations in Japan

Conform to the provisions of the Ship Safety Law. Regulatory information by sea Regulatory information by air Conform to the provisions of the Civil Aeronautics Law.

MFAG-No 131

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 Industrial Safety and Health Law

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

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

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

Item 1, Item 2, Attached Table No.9) Acetonitrile (Ordinance number: 15)

Japanese Poisonous and

Deleterious Substances Control Law

Deleterious Substances (Designated Order Art.2)

Organic cyanide compounds and preparations containing it (except

for following (1)-(169))

Water Pollution Prevention Law

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

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

: Hazardous Air Pollutants (Central Environment Council Report No. 9) Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice

to Prefectures)

Foreign Exchange and Foreign

Trade Control Act Ship Safety Act Export Trade Control Ordinance appendix 1-16

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

Publication of Japan Highway Pablic Corp.)

Waste Management on Public

Cleansing Law Sewerage Law

Road Act

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

Order Art.2-4)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Enforcement Order Art.9-4)
Class 1 Designated Chemical Substances (Act Art.2 para. 2,

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

Enforcement Oder Art.1 Appended Table No.1)

Acetonitrile (≥98%)

[After amendment of April 2023]

Not applicable

Soil Contamination

Countermeasures Law

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

Order Art.1)

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.

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