← HPC

Meptyldinocap

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/20/2025 SDS code: R1-03 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name : Meptyldinocap

SDS code : R1-03

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 No classification

Flammable gases

Aerosol

Oxidizing gases

No classification

Oxidizing gases

No classification

Gases under pressure

Flammable liquids

Flammable solids

No classification

No classification

No classification

Self-reactive substances and

mixtures

classification not possible

Pyrophoric liquids No classification
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

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

Corrosive to metals classification not possible
Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) No classification

Acute toxicity (dermal)

Acute toxicity (inhalation:gas)

Acute toxicity (inhalation:vapors)

No classification

Category 1

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 Category 1
Germ cell mutagenicity No classification
Carcinogenicity No classification

Reproductive toxicity classification not possible Specific target organ toxicity (single classification not possible

exposure)

Specific target organ toxicity

(repeated exposure)

classification not possible

Aspiration hazard classification not possible Hazardous to the aquatic classification not possible

Environmental hazards

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)





GHS02

GHS06

Signal word (GHS JP) Danger

Hazard statements (GHS JP) Flammable liquid and vapor (H226)

> May cause an allergic skin reaction (H317) Causes serious eye irritation (H319)

Fatal if inhaled (H330)

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)

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

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

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

Contaminated work clothing should not be allowed out of the workplace.

(P272)

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

(P280)

[In case of inadequate ventilation] wear respiratory protection. (P284) 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)

Immediately call a POISON CENTER or doctor. (P310)

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364) 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

2/7

regulation. (P501)

Response

3. Composition/information on ingredients

Distinction of substance or mixture Substance

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	OAO KK
Meptyldinocap	≧95%、≦100%	C18H24N2O6	(3)-840	Existing Chemical Substance	131-72-6

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

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

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

Unsuitable extinguishing media

Do not use a heavy water stream. Extremely flammable liquid and vapor.

Fire hazard 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

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 : Refrigerate: 2-10°C

8. Exposure controls / Personal protection equipment

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 : yellow orange
Odor : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : 30 °C

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability : No data available
Vapor pressure : No data available
Relative density : No data available
Density : 1.10 g/cm³ (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 : No data available
Conditions to avoid : Sunlight, Heat
Incompatible materials : No data available
Hazardous decomposition : Nitrogen oxides

products

11. Toxicological information

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

Meptyldinocap			
Acute toxicity (oral)	No classification		
Acute toxicity (dermal)	No classification		
Acute toxicity (gas)	No classification		
Acute toxicity (vapour)	Category 1		
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	Category 1		
Germ cell mutagenicity	No classification		
Carcinogenicity	No classification		
Reproductive toxicity	classification not possible		
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.

Meptyldinocap		
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	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) 2929

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

Packing group (IMDG) Ι

Transport hazard class(es) (IMDG) 6.1 (3) Hazard labels (IMDG) 6.1,3 Class (IMDG) 6.1 Subsidiary hazard (IMDG) 3 Division (IMDG) 6.1 Special provision (IMDG) 274, 315 Limited quantities (IMDG) 0 Excepted quantities (IMDG) E5 Packing instructions (IMDG) P001

Tank instructions (IMDG) Tank special provisions (IMDG) TP2, TP13, TP27

Stowage category (IMDG)

Properties and observations (IMDG) Toxic if swallowed, by skin contact or by inhalation.

T14

MFAG-No

Air transport(IATA)

UN-No. (IATA) 2929

Proper Shipping Name (IATA) Toxic liquid, flammable, organic, n.o.s.

Packing group (IATA)

Transport hazard class(es) (IATA) 6.1(3)Hazard labels (IATA) 6.1, 3 Class (IATA) 6.1 Subsidiary hazards (IATA) 3 Division (IATA) 6.1 PCA Excepted quantities (IATA) E5 Forbidden PCA Limited quantities (IATA) PCA limited quantity max net Forbidden

quantity (IATA)

PCA packing instructions (IATA) 652 PCA max net quantity (IATA) 1L CAO packing instructions (IATA) 658 CAO max net quantity (IATA) 30L Special provision (IATA) A4, A137 ERG code (IATA)

Marine pollutant Not applicable

Regulations in Japan

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

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

Industrial Safety and Health Law Dangerous or Harmful Substances for Labeling of Chemical Name

etc. (Act Art.57 Para.1, Enforcement Order, Art.18)

Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2 Para.1, Enforcement Order, Art.18-2) Dinitromethylheptylphenyl crotonate (synonym: Dinocap)

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1,

5 based on July 4, 2023)

Japanese Poisonous and

Deleterious Substances Control Law

Deleterious Substances (Designated Order Art.2)

Dinitromethylhepthylphenylcrotonate(Dinocap) and preparations containing it. (except for preparations which contain 0.2 % or less of

dinitromethylhepthylphenylcrotonate)

Fire Service Law : Group 4, Flammable Liquids, Class 2 petroleums, Water-insoluble

liquids (Act, Art.2, Para.7, Appended Table 1, Group 4)

Foreign Exchange and Foreign

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

Toxic and infectious substances/Toxic substances (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods

Regulations)

Civil Aeronautics Law : Toxic and infectious substances/Toxic substances (Hazardous

materials notice Appended Table 1 Article 194 of the Enforcement

Regulations)

Port Regulation Law : Toxic and infectious substances/Toxic substances (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

16. Other information

Data sources : Handbook of 17625 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2024 Emergency Response Guidebook (ERG 2024).

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.