

Esprocarb

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 4/14/2021 Revision date: 4/28/2022 SDS code: D2-13 Version: 02

Safety Data Sheet

1. Chemical product and company identification

Product name Esprocarb SDS code D2-13

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Telephone: 06-6910-7305

E-mail: shiyaku_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

Emergency number 06-6910-7305

2. Hazards identification

GHS classification

Physical hazards No classification **Explosives**

> No classification Flammable gases No classification Aerosol Oxidizing gases No classification Gases under pressure No classification

Flammable liquids classification not possible

Flammable solids No classification Self-reactive substances and No classification

mixtures

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

No classification

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

Corrosive to metals classification not possible Desensitized eplosives classification not possible

Health hazards Acute toxicity (oral) No classification

> No classification Acute toxicity (dermal)

Acute toxicity (inhalation:gas) classification not possible Acute toxicity (inhalation:vapors) classification not possible Acute toxicity (inhalation:dust/mist) classification not possible Skin corrosion/irritation classification not possible

Serious eye damage/eye irritation No classification

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

Carcinogenicity No classification Reproductive toxicity Category 2

Specific target organ toxicity (single

exposure)

classification not possible

Specific target organ toxicity

(repeated exposure)

Aspiration hazard

classification not possible

Category 2 (kidneys, blood system, liver, bone marrow)

1/6

Revision date: 4/28/2022 SDS code: D2-13

Environmental

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

Category 1

hazards

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

Category 1

Hazardous to the ozone layer

classification not possible

Hazard pictograms (GHS JP)





GHS08

GHS

Signal word (GHS JP)

Compared of demonstrate fortility, on the combarn child (LICC

Hazard statements (GHS JP) : Suspected of damaging fertility or the unborn child (H361)

May cause damage to organs (kidneys, blood system, liver, bone marrow)

through prolonged or repeated exposure (H373) Very toxic to aquatic life with long lasting effects (H410)

Precautionary statements (GHS JP)

Prevention : Obtain special instructions before use. (P201)

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

(P202)

Warning

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

Avoid release to the environment. (P273)

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

(P280)

Response : IF exposed or concerned: Get medical advice/attention. (P308+P313)

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

Collect spillage. (P391)

Storage : 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 : Substance

	Concentration or Concentration range	Formula	Kanpo number		
Name			CSCL no	ISHL no	CAS RN
Esprocarb	≧95%, ≦100%	C15H23NOS	-	4-(6)-325	85785-20-2

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are mass%, 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 : Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media : Water spray, Foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Esprocarb

Revision date: 4/28/2022 SDS code: D2-13 Version: 02

Explosion hazard : May induce explosion of containers by heating.

Hazardous decomposition products

in case of fire

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

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

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.

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.

Revision date: 4/28/2022 SDS code: D2-13 Version: 02

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 : colorless transparent
Odor : characteristic odor
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : 131 – 133 °C (46.66Pa)

Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : 0.01 Pa (25°C)
Relative density : No data available

Density : 1.04

Relative gas density : No data available

Solubility : Soluble in many organic solvents.

Water: 4.92 mg/l (20°C)

Partition coefficient n- : 4.62

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 at 120°C. Photodecomposition in the presence of water.

Possibility of hazardous reactions : No data available Conditions to avoid : Sunlight, Heat Incompatible materials : No data available

Hazardous decomposition : Nitrogen oxides, sulfur oxides

products

11. Toxicological information

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

Esprocarb		
Acute toxicity (oral)	No classification (UN classification : Category 5)	
Acute toxicity (dermal)	No classification	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	classification not possible	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	No classification	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	No classification	
Reproductive toxicity	Category 2	

Esprocarb

Revision date: 4/28/2022 SDS code: D2-13 Version: 02

Esprocarb		
STOT-single exposure	classification not possible	
STOT-repeated exposure	Category 2	
Aspiration hazard	classification not possible	

12. Ecological information

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

Esprocarb		
Hazardous to Aquatic Environment - Acute Hazard	Category 1	
Hazardous to Aquatic Environment - Chronic Hazard	Category 1	
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) 3082

Proper Shipping Name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Ш

Packing group (IMDG) Transport hazard class(es) (IMDG) 9 Hazard labels (IMDG) 9

Class (IMDG) 9

Special provision (IMDG) 274, 335, 969

Limited quantities (IMDG) 5 L Excepted quantities (IMDG) E1

LP01, P001 Packing instructions (IMDG) Packing provisions (IMDG) PP1 IBC packing instructions (IMDG) IBC03 Tank instructions (IMDG) T4 Tank special provisions (IMDG) TP1, TP29

Stowage category (IMDG) Α 171 MFAG-No

Air transport(IATA)

UN-No. (IATA) 3082

Proper Shipping Name (IATA) Environmentally hazardous substance, liquid, n.o.s.

Packing group (IATA) Ш Transport hazard class(es) (IATA) 9 Hazard labels (IATA) 9 9 Class (IATA) PCA Excepted quantities (IATA) E1 PCA Limited quantities (IATA) Y964 PCA limited quantity max net 30kgG

quantity (IATA)

PCA packing instructions (IATA) 964 PCA max net quantity (IATA) 450L CAO packing instructions (IATA) 964 CAO max net quantity (IATA) 450L

Special provision (IATA) A97, A158, A197

ERG code (IATA) 9L

Revision date: 4/28/2022 SDS code: D2-13

Marine pollutant 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.

171 MFAG-No

When transporting, load containers so that they do not tip over. Special transport precautions

damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Industrial Safety and Health Law Not applicable Japanese Poisonous and Not applicable

Deleterious Substances Control Law

Not applicable Fire Service Law

Foreign Exchange and Foreign

Trade Control Act

Ship Safety Act Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods

Regulations)

Civil Aeronautics Law Miscellaneous dangerous substances & articles (Hazardous materials

notice Appended Table 1 Article 194 of the Enforcement Regulations)

Japanese Pollutant Release and Transfer Register Law (PRTR Law) [After amendment of April 2023]

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

Enforcement Order, Art.1 Appended Table 1)

Export Trade Control Ordinance appendix 1-16

S-Benzyl N-(1,2-dimethylpropyl)-N-ethylthiocarbamate (100%)

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).

The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. Other information

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.