

Alanycarb

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 3/21/2012 Revision date: 7/5/2022 SDS code: D7-19 Version: 03

Safety Data Sheet

1. Chemical product and company identification

Product name : Alanycarb SDS code : D7-19

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

Recommended use : For a research and experimental use only.

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

on a human body or for animal medicines, foods, household products,

No classification

cosmetics, etc. Do not use in a natural environment.

2. Hazards identification

GHS classification

Physical hazards Explosives classification not possible

Flammable gases
Aerosol
Oxidizing gases
No classification

Flammable solids classification not possible Self-reactive substances and classification not possible

mixtures

Pyrophoric liquids No classification

Pyrophoric solids classification not possible Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

Oxidizing liquids No classification

Oxidizing solids classification not possible

Organic peroxides No classification

Corrosive to metals classification not possible
Desensitized eplosives classification not possible

Health hazards Acute toxicity (oral) Category 4

Acute toxicity (dermal) No classification
Acute toxicity (inhalation:gas) No classification

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

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

Respiratory sensitization classification not possible

Skin sensitization No classification
Germ cell mutagenicity No classification
Carcinogenicity No classification
Reproductive toxicity No classification

Specific target organ toxicity (single Category 1 (nervous system, systemic toxicity)

exposure)

Revision date: 7/5/2022 SDS code: D7-19

Specific target organ toxicity

(repeated exposure)

Category 2 (systemic toxicity, nervous system)

Aspiration hazard

Environmental hazards

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

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

Hazardous to the ozone layer

Category 1

Category 1

classification not possible

classification not possible

Hazard pictograms (GHS JP)







GHS07

GHS08

GHS09

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : Harmful if swallowed (H302)

Causes damage to organs (nervous system, systemic toxicity) (H370) May cause damage to organs (systemic toxicity, nervous system) through

prolonged or repeated exposure (H373)

Very toxic to aquatic life with long lasting effects (H410)

Precautionary statements (GHS JP)

Prevention : 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)

Avoid release to the environment. (P273)

Response : IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

(P301+P312)

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

(P308+P311)

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

Rinse mouth. (P330) 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	Formula	Kanpo number		040 04
Name	Name Concentration range		CSCL no	ISHL no	CAS RN
Alanycarb	≧95%, ≦100%	C17H25N3O4S2	-	-	83130-01-2

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.

Rinse mouth.

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

Get immediate medical advice/attention.

Revision date: 7/5/2022 SDS code: D7-19 Version: 03

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.

Explosion hazard : 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.

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 : Take care not to generate dust, sweep it up as much as possible, collect it

in an empty container that can be sealed, and move it to a safe place.

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

Revision date: 7/5/2022 SDS code: D7-19

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 : Dustproof mask
Hand protection : Protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

Skin and body protection : Protective clothing, Protective boots, Protective apron

9. Physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder

Color : whitish

Odor No data available рΗ No data available Melting point 46.6 - 47.0 °C Freezing point No data available Boiling point No data available No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure 5.8 kPa (20°C) Relative density No data available Density No data available Relative gas density No data available

Solubility : Water: 27.7 mg/l (20°C)

Partition coefficient n-

octanol/water (Log Pow)

: 3.43

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 up to 100°C. It decomposes 0.2-1.0% after 30 days at 54°C. Stable

at neutral or weakly basic.

Possibility of hazardous reactions : No data available

Conditions to avoid : Sunlight, heat. Contact with acids and strong bases.

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.

Alanycarb		
Acute toxicity (oral)	Category 4	
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	No classification	
Serious eye damage/irritation	No classification	
Respiratory sensitization	classification not possible	

Alanycarb Version: 03

Revision date: 7/5/2022 SDS code: D7-19

Alanycarb		
Skin sensitization	No classification	
Germ cell mutagenicity	No classification	
Carcinogenicity	No classification	
Reproductive toxicity	No classification	
STOT-single exposure	Category 1	
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.

Alanycarb		
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) : 3077

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

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

Special provision (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02

Packing instructions (IMDG) : LP02, P002
Packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33
Stowage category (IMDG) : A
MFAG-No : 171

Air transport(IATA)

UN-No. (IATA) : 3077

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

30kgG

Packing group (IATA) : III
Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9
Class (IATA) : 9
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956

PCA limited quantity max net quantity (IATA)

PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg

Revision date: 7/5/2022 SDS code: D7-19 Version: 03

CAO packing instructions (IATA) 956 CAO max net quantity (IATA) 400ka

Special provision (IATA) A97, A158, A179, A197, A215

ERG code (IATA) 9L

Marine pollutant 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 171

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

Deleterious Substances (Designated Order Art.2) **Deleterious Substances Control Law** Ethyl (Z)-3-[N-benzyl-N-[[methyl(1-methylthio-ethylideneamino-

oxycarbonyl)amino]thio]amino]propionate and preparations containing

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

Enforcement Order Article 3-3)

Fire Service Law Not applicable

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

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

Ethyl (Z)-3-[N-benzyl-N-[[methyl(1-

methylthioethylideneaminooxycarbonyl)amino]thio]amino]propionate;

alanycarb (100%)

[After amendment of April 2023]

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

Enforcement Order, Art.1 Appended Table 1)

Ethyl (Z)-3-[N-benzyl-N-[[methyl(1-

methylthioethylideneaminooxycarbonyl)amino]thio]amino]propionate

(synonym: Alanycarb) (100%)

16. Other information

Handbook of 17322 Chemical Products, The Chemical Daily Co, Ltd. Data sources

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.