

# Diethylene glycol mono-n-hexyl ether

### Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 10/12/2010 Revision date: 4/16/2020 SDS code: A1-03 Version: 06.1

### Safety Data Sheet

### 1. Chemical product and company identification

**Product name** Diethylene glycol mono-n-hexyl ether

SDS code A1-03

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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

Responsible department : Planning Group, Reagent & Chemical Product Department

Telephone: 06-6910-7305

E-mail: shiyaku\_kikaku@hpc-j.co.jp URL: http://www.hpc-j.co.jp/

**Emergency number** 06-6910-7305

#### 2. Hazards identification

#### **GHS** classification

Physical hazards Desensitized eplosives classification not possible

> No classification **Explosives** Flammable gases No classification No classification Aerosol Oxidizing gases No classification Gases under pressure No classification Flammable liquids No classification Flammable solids No classification No classification

Self-reactive substances and

mixtures

Pyrophoric liquids

classification not possible

Pyrophoric solids No classification

Self-heating substances and

mixtures

classification not possible

classification not possible

Substances and mixtures which in

contact with water emit flammable gases

No classification

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

Corrosive to metals classification not possible

Health hazards Acute toxicity (oral) No classification

> Acute toxicity (dermal) Category 4 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 Category 2A

Respiratory sensitization classification not possible Skin sensitization classification not possible

Germ cell mutagenicity No classification

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

exposure)

Specific target organ toxicity

(repeated exposure)

Aspiration hazard classification not possible

1/6

Revision date: 4/16/2020 SDS code: A1-03 Version: 06.1

Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

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

Hazardous to the ozone layer

classification not possible

classification not possible

classification not possible

Hazard pictograms (GHS JP)



Signal word (GHS JP) : Warning

Hazard statements (GHS JP) : Harmful in contact with skin (H312)

Causes serious eye irritation (H319)

Precautionary statements (GHS JP)

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

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

(P280)

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

(P305+P351+P338)

Call a POISON CENTER or doctor if you feel unwell. (P312) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)

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

Synonyms : Hexyl carbitol, 2-(2-Hexyloxyethoxy)ethanol

|                                    | Concentration or    |          | Kanpo number |                                   | 040 PM   |
|------------------------------------|---------------------|----------|--------------|-----------------------------------|----------|
| Name                               | Concentration range | Formula  | CSCL no      | ISHL no                           | CAS RN   |
| Diethylene glycol mono hexyl ether | ≧95V/V%             | C10H22O3 | (7)-97       | Existing<br>Chemical<br>Substance | 112-59-4 |

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.

Do NOT induce vomiting.

Revision date: 4/16/2020 SDS code: A1-03 Version: 06.1

# 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

Firefighting instructions

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

in case of fire

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-resista

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 Technical measures

Light shielding airtight container.

: Comply with applicable regulations.

Storage temperature : Cool and dark place

# 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: 4/16/2020 SDS code: A1-03 Version: 06.1

#### 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 ∼ slight yellow

Odor : characteristic odor pH : No data available

Melting point : -33 °C

Freezing point : No data available

Boiling point : 258 °C

Flash point : 127 °C (closed cup)
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : < 1.33 Pa (20°C)
Relative density : No data available

Specific gravity / density : 0.93 – 0.94 g/cm³ (20°C)

Relative gas density : No data available

Solubility : Slightly soluble in water.

Partition coefficient n- : No data available

octanol/water (Log Pow)

Explosive limits (vol %) : 0.7 – 13 vol % (in air)
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 : Reacts with strong oxidizing agents, strong bases, and strong acids. Reacts

with alkali metal oxide.

Conditions to avoid : Sunlight, heat. high-temperature matter, open flame, spark, other ignition

sources. Contact with strong oxidizing agents, strong bases, strong acids,

and alkali metal oxide.

Incompatible materials : Strong oxidizing agents, Strong bases, Strong acids, Alkali metal oxide

Hazardous decomposition : No data available

products

# 11. Toxicological information

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

| Diethylene glycol mono hexyl ether    |                             |  |
|---------------------------------------|-----------------------------|--|
| Acute toxicity (oral)                 | No classification           |  |
| Acute toxicity (dermal)               | Category 4                  |  |
| 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         | Category 2A                 |  |
| Respiratory sensitization             | classification not possible |  |
| Skin sensitization                    | classification not possible |  |

Revision date: 4/16/2020

| DS code: A1-03 | Version |
|----------------|---------|
|----------------|---------|

| Diethylene glycol mono hexyl ether |                             |  |
|------------------------------------|-----------------------------|--|
| Germ cell mutagenicity             | No classification           |  |
| Carcinogenicity                    | classification not possible |  |
| 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.

| Diethylene glycol mono hexyl ether                   |                             |  |
|--|-----------------------------|--|
| Hazardous to Aquatic Environment -<br>Acute Hazard   | classification not possible |  |
| Hazardous to Aquatic Environment -<br>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) : 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**

Disasters

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

**Deleterious Substances Control Law** 

Fire Service Law : Group 4 - Flammable liquids - 3rd Class petroleums - Insoluble (Law

Art.2 Para.7, Attached Table 1, Group 4)

Law Relating to Prevention of Marine Pollution and Maritime

Noxious Liquid Substances - Category Z (Law Art.3(3), Enforcement

arine Pollution and Maritime Order, Art.1-2, Attached Table No.1 Item 3)

Revision date: 4/16/2020 SDS code: A1-03 Version: 06.1

Foreign Exchange and Foreign

Trade Control Act

Japanese Pollutant Release and Transfer Register Law (PRTR Law) Export Trade Control Ordinance appendix 1-16

Not applicable

#### 16. Other information

Data sources

International Chemical Safety Cards. National Institute of Technology and Evaluation (NITE).

2016 Emergency Response Guidebook (ERG 2016).

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.

Handbook of 17120 Chemical Products, The Chemical Daily Co, Ltd.