

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 10/11/2021

Tolprocarb

SDS code: LB-20

Version: 01

Safety Data Sheet

1. Chemical product and company identification

| Product name | |
|--------------|--|
| SDS code | |

LB-20 • 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 : https://www.hpc-j.co.jp/ **Emergency number** 06-6910-7305 :

2. Hazards identification

GHS classification

| Physical hazards | Desensitized eplosives | classification not possible |
|------------------|--|-----------------------------|
| , | Explosives | classification not possible |
| | Flammable gases | No classification |
| | Aerosol | classification not possible |
| | Oxidizing gases | No classification |
| | Gases under pressure | No classification |
| | Flammable liquids | No classification |
| | Flammable solids | classification not possible |
| | Self-reactive substances and mixtures | classification not possible |
| | Pyrophoric liquids | No classification |
| | Pyrophoric solids | classification not possible |
| | Self-heating substances and mixtures | classification not possible |
| | Substances and mixtures which in contact with water emit flammable gases | classification not possible |
| | Oxidizing liquids | No classification |
| | Oxidizing solids | classification not possible |
| | Organic peroxides | classification not possible |
| | Corrosive to metals | classification not possible |
| Health hazards | Acute toxicity (oral) | No classification |
| | Acute toxicity (dermal) | No classification |
| | Acute toxicity (inhalation:gas) | No classification |
| | Acute toxicity (inhalation:vapors) | No classification |
| | Acute toxicity (inhalation:dust/mist) | No classification |
| | 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 exposure) | No classification |
| | Specific target organ toxicity (repeated exposure) | No classification |
| | Aspiration hazard | 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 |

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

| Nama | Concentration or | Fammala | Kanpo | CAS RN | |
|--------------------------|------------------|--------------|---------|-----------|-------------|
| Name Concentration range | | Formula | CSCL no | | |
| Tolprocarb | ≧98%、≦100% | C16H21F3N2O3 | - | 4-(6)-438 | 911499-62-2 |

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 | : | Remove/Take off immediately all contaminated clothing. |
| contact | | 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 | : | Use proper extinguishing media depending on peripheral fire. |
|---|---|--|
| Unsuitable extinguishing media | : | Do not use a heavy water stream. |
| 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 places. |
| | | If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool. |
| 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 | : | 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 Contain | nm | ent 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 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 | : 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 | : | Powder |
| Color | : | white |
| Odor | : | Odorless |
| рН | : | 7.6 – 7.9 (Saturated aqueous solution) |
| Melting point | : | 133.7 – 135.0 °C |
| Freezing point | : | No data available |
| Boiling point | : | No data available |
| Flash point | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | 259 °C |
| Flammability (solid, gas) | : | No data available |
| Vapor pressure | : | 1.8×10⁻ੰ Pa (25°C) |
| Relative density | : | No data available |
| Density | : | 1.28 g/cm ³ (20°C) |
| Relative gas density | : | No data available |
| Solubility | : | Soluble in methanol. Sparingly soluble in n-heptane. Water: 41.2 mg/l (20°C) |
| Partition coefficient n- octanol/water (Log Pow) | : | 3.28 |
| 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 products | : | Nitrogen oxides, Fluorine, Fluorine compounds |

11. Toxicological information

| Tolprocarb | | | |
|---------------------------------------|-----------------------------|--|--|
| Acute toxicity (oral) | No classification | | |
| Acute toxicity (dermal) | No classification | | |
| Acute toxicity (gas) | No classification | | |
| Acute toxicity (vapour) | classification not possible | | |
| Acute toxicity (inhalation:dust/mist) | No classification | | |
| Skin corrosion/irritation | No classification | | |
| Serious eye damage/irritation | No classification | | |
| Respiratory sensitization | classification not possible | | |
| Skin sensitization | No classification | | |
| Germ cell mutagenicity | No classification | | |
| Carcinogenicity | No classification | | |
| Reproductive toxicity | No classification | | |
| STOT-single exposure | No classification | | |
| STOT-repeated exposure | No classification | | |
| Aspiration hazard | classification not possible | | |

12. Ecological information

| Tolprocarb | | | | |
|--|-----------------------------|--|--|--|
| 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 | classification not possible | | | |

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 |

| UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA) Marine pollutant | Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable |
|---|--|
| Regulations in Japan Regulatory information by sea Regulatory information by air Special transport precautions | Not applicable Not applicable 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 | : | Not applicable |
|--|---|--|
| Japanese Poisonous and Deleterious Substances Control Law | : | Not applicable |
| Fire Service Law | : | Not applicable |
| Foreign Exchange and Foreign Trade Control Act | : | Export Trade Control Ordinance appendix 1-16 |
| Japanese Pollutant Release and Transfer Register Law (PRTR Law) | : | Not applicable |
| | | |

16. Other information

| Data sources | Handbook of 17221 Chemical Products, The Chemical Daily Co, Ltd. 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. |