

Benzovindiflupyr

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 4/8/2022 Revision date: 4/3/2025 SDS code: W9-19 Version: 02

Safety Data Sheet

1. Chemical product and company identification

Product name : Benzovindiflupyr

SDS code : W9-19

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 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.

classification not possible

classification not possible

Do not use in the environment.

2. Hazards identification

GHS classification

Physical hazards 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 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 classification not possible
Corrosive to metals classification not possible
Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) Category 3

Acute toxicity (dermal) classification not possible
Acute toxicity (inhalation:gas) classification not possible
Acute toxicity (inhalation:vapors) classification not possible

Acute toxicity (inhalation:dust/mist) Category 3

Skin corrosion/irritation classification not possible Serious eye damage/eye irritation classification not possible Respiratory sensitization classification not possible Skin sensitization classification not possible Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible

Specific target organ toxicity (single

exposure)

Specific target organ toxicity

(repeated exposure)

classification not possible classification not possible

Aspiration hazard

Hazardous to the aquatic

Environmental hazards

environment, short-term (acute)

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

Hazardous to the ozone layer

Category 1

Category 1

classification not possible

Hazard pictograms (GHS JP)





GHS06

GHS09

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : Toxic if swallowed or if inhaled (H301+H331)

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

Precautionary statements (GHS JP)

Prevention : Avoid breathing dust/fume/gas/mist/vapors/spray. (P261)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Response : IF SWALLOWED: Immediately call a POISON CENTER or doctor.

(P301+P310)

IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

Call a POISON CENTER or doctor. (P311)

Rinse mouth. (P330) Collect spillage. (P391)

Storage : Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

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

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	OAO KIT
Benzovindiflupyr	≧95%, ≦100%	C18H15Cl2F2N3O	=	=	1072957-71-1

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 : 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.

Explosion hazard

: May induce explosion of containers by heating.

Hazardous decomposition products

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

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

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

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 : 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 : Solid
Appearance : Solid

Color : white ~ very pale brown

Odor : Odorless

pH : 6.9 (1.0w/v%, 25°C)

Melting point : 148.4 °C

Freezing point : No data available
Boiling point : No data available
Flash point : No data available

Auto-ignition temperature : 400 °C

Decomposition temperature : No data available
Flammability : No data available
Vapor pressure : No data available
Relative density : No data available
Density : 1.47 g/cm³ (20°C)
Relative gas density : No data available

Solubility : Soluble in ethyl acetate. Soluble in dichloromethane. Soluble in toluene.

Soluble in n-octanol. Soluble in methanol. Soluble in hexane. Soluble in

acetone.

Partition coefficient n-

octanol/water (Log Pow)

4.3 (25°C)

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, Chlorine and its compounds, Fluorine and its compounds

products

11. Toxicological information

Benzovindiflupyr		
Acute toxicity (oral)	Category 3	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	classification not possible	
Acute toxicity (vapour)	classification not possible	
Acute toxicity (inhalation:dust/mist)	Category 3	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	classification not possible	
Respiratory sensitization	classification not possible	

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

Benzovindiflupyr		
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	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 : Empty the packaging completely prior to disposal.

packaging 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) : 2811

Proper Shipping Name (IMDG) : TOXIC SOLID, ORGANIC, N.O.S. Packing group (IMDG) : III

Packing group (IMDG) Transport hazard class(es) (IMDG) 6.1 Hazard labels (IMDG) 6.1 Class (IMDG) 6.1 Division (IMDG) 6.1 Special provision (IMDG) 223, 274 Limited quantities (IMDG) 5 kg Excepted quantities (IMDG) E1 Packing instructions (IMDG) P002 IBC08 IBC packing instructions (IMDG) IBC special provisions (IMDG) B3 Tank instructions (IMDG) T1 TP33 Tank special provisions (IMDG)

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

MFAG-No : 154

Air transport(IATA)

UN-No. (IATA) : 2811

Proper Shipping Name (IATA) : Toxic solid, organic, n.o.s.

Packing group (IATA) : III
Transport hazard class(es) (IATA) : 6.1
Hazard labels (IATA) : 6.1
Class (IATA) : 6.1
Division (IATA) : 6.1
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y645

PCA limited quantity max net :

quantity (IATA)

PCA packing instructions (IATA) : 670
PCA max net quantity (IATA) : 100kg
CAO packing instructions (IATA) : 677
CAO max net quantity (IATA) : 200kg
Special provision (IATA) : A3, A5
ERG code (IATA) : 6L

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.

10kg

MFAG-No : 154

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 : Not applicable Japanese Poisonous and : Not applicable

Deleterious Substances Control Law

Fire Service Law : Not applicable

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Ship Safety Act : 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)

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). 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.