

Hayashi Pure Chemical Ind.,Ltd. Date of issue: 10/27/2010 Revision date: 4/1/2024

V1/2024 SDS code: A4-13

4-13 Version: 07

Safety Data Sheet

1. Chemical product and company identification

Product name	:	Benzyl alcohol
SDS code	:	A4-13
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirano Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hp URL : https://www.hpc-j.co.j	oma oc-j.	chi, Chuo-ku, Osaka, Osaka, Japan
Emergency number	:	06-6910-7305
Recommended use	:	For research and experimental use only.
Restrictions on use	:	Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc.

2. Hazards identification

GHS classification

Physical hazards	Explosives	No classification
	Flammable gases	No classification
	Aerosol	No classification
	Oxidizing gases	No classification
	Gases under pressure	No classification
	Flammable liquids	Category 4
	Flammable solids	No classification
	Self-reactive substances and mixtures	No classification
	Pyrophoric liquids	No classification
	Pyrophoric solids	No classification
	Self-heating substances and mixtures	classification not possible
	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 explosives	No classification
Health hazards	Acute toxicity (oral)	Category 4
	Acute toxicity (dermal)	Category 4
	Acute toxicity (inhalation:gas)	No classification
	Acute toxicity (inhalation:vapors)	classification not possible
	Acute toxicity (inhalation:dust/mist)	No classification
	Skin corrosion/irritation	No classification
	Serious eye damage/eye irritation	Category 2
	Respiratory sensitization	classification not possible
	Skin sensitization	Category 1
	Germ cell mutagenicity	No classification
	Carcinogenicity	No classification
	Reproductive toxicity	classification not possible
	Specific target organ toxicity (single exposure)	Category 1 (central nervous system, kidneys)

	Specific target orga exposure)	an toxicity (single	Category 3 (Narcosis)
	Specific target orga (repeated exposure		Category 1 (central nervous system)
	Aspiration hazard	- /	classification not possible
Environmental hazards	Hazardous to the ac environment, short-		Category 2
	Hazardous to the ac environment, long-t		No classification
	Hazardous to the or	zone layer	classification not possible
Hazard pictograms (GHS JP)	!> <		
	GHS07 GHS	S08	
Signal word (GHS JP)) : [Danger	
Hazard statements (G		May cause an alle Causes serious e May cause drows Causes damage t	ved or in contact with skin (H302+H312) ergic skin reaction (H317) ye irritation (H319) iness or dizziness (H336) o organs (central nervous system, kidneys) (H370) o organs (central nervous system) through prolonged or e (H372)
Precautionary stateme			
Prevention		sources. No smok Do not breathe du Wash hands, fore Do not eat, drink o Use only outdoors Contaminated wo (P272) Avoid release to tl	heat, hot surfaces, sparks, open flames and other ignition king. (P210) Ist/fume/gas/mist/vapors/spray. (P260) arms and face thoroughly after handling. (P264) or smoke when using this product. (P270) s or in a well-ventilated area. (P271) rk clothing should not be allowed out of the workplace. he environment. (P273) loves/protective clothing/eye protection/face protection.
Response		(P301+P312) IF ON SKIN: Was IF INHALED: Rem breathing (P304+I IF IN EYES: Rinse contact lenses, if p (P305+P351+P33 IF exposed or con (P308+P311) Get medical advic Rinse mouth. (P33 If skin irritation or If eye irritation per Take off contamin	e cautiously with water for several minutes. Remove present and easy to do. Continue rinsing. 8) icerned: Call a POISON CENTER or doctor. re/attention if you feel unwell. (P314)
Storage	: : :		ntilated place. Keep container tightly closed.
Disposal	ł		ts/container to hazardous or special waste collection ce with local, regional, national and/or international

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

	Concentration or		Kanpo		
Name	Concentration range	Formula	CSCL no	ISHL no CAS RN	
Benzyl alcohol	≧98.0%, ≦100%	С7Н8О	(3)-1011	Existing Chemical Substance	100-51-6

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	:	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	:	Do NOT induce vomiting.
		Rinse mouth.
		Get immediate medical advice/attention.

5. Fire fighting measures

5 5		
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	:	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.
		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		

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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	:	Cool and dark place

8. Exposure controls / Personal protection equipment

Exposure limit values				
Benzyl alcohol				
Exposure limits (JSOH)	[Ceiling]25mg/m3			
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	: 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, Impervious long boots			

9. Physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid
Color	:	colorless transparent
Odor	:	Weak aromatic odor
рН	:	No data available
Melting point	:	-15 °C
Freezing point	:	No data available
Boiling point	:	205 °C
Flash point	:	93 °C
Auto-ignition temperature	:	436 °C
Decomposition temperature	:	No data available
Flammability	:	No data available
Vapor pressure	:	20 Pa (25°C)
Relative density	:	No data available
Density	:	1.04 – 1.05 g/cm³ (20°C)

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Relative gas density	:	No data available
Solubility	:	Soluble in ethanol. Soluble in diethyl ether. Soluble in chloroform. Water: 3.2 % (25 $^{\circ}\mathrm{C}$)
Partition coefficient n- octanol/water (Log Pow)	:	1.1
Explosive limits (vol %)	:	1.3 – 13 vol %
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. Shows hygroscopicity. It is unstable when in contact with air.
Possibility of hazardous reactions	:	Reacts violently with strong oxidizing agents and acids. It is gradually oxidized in air. Erode many kind of plastics. When heated, erodes iron and aluminium.
Conditions to avoid	:	Sunlight, heat, moisture. Ignition sources such as flames, sparks and static electricity. Contact with strong oxidizing agents, acids, plastics and metals.
Incompatible materials	:	Strong oxidizing agents, Acids, Plastics, Metals
Hazardous decomposition products	:	No data available

11. Toxicological information

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

Benzyl alcohol	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	Category 4
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	Category 2
Respiratory sensitization	classification not possible
Skin sensitization	Category 1A
Germ cell mutagenicity	No classification
Carcinogenicity	No classification
Reproductive toxicity	classification not possible
STOT-single exposure	Category 1 Category 3 (Narcosis)
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible

12. Ecological information

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

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Benzyl alcohol		
Hazardous to Aquatic Environment - Acute Hazard	Category 2	
Hazardous to Aquatic Environment - Chronic Hazard	No classification	
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) : Proper Shipping Name (IMDG) : Packing group (IMDG) : Transport hazard class(es) (IMDG) : Hazard labels (IMDG) : Class (IMDG) : Division (IMDG) : Special provision (IMDG) : Limited quantities (IMDG) : Excepted quantities (IMDG) : Packing instructions (IMDG) : IBC packing instructions (IMDG) : Tank instructions (IMDG) : Tank special provisions (IMDG) : Stowage category (IMDG) : Properties and observations (IMDG) : MFAG-No	2810 TOXIC LIQUID, ORGANIC, N.O.S. III 6.1 6.1 6.1 223, 274 5 L E1 P001, LP01 IBC03 T7 TP1, TP28 A Toxic if swallowed, by skin contact or by inhalation. 153
Air transport(IATA)	
UN-No. (IATA) Proper Shipping Name (IATA) Packing group (IATA) Transport hazard class(es) (IATA) Hazard labels (IATA) Class (IATA)	2810 Toxic liquid, organic, n.o.s. III 6.1 6.1 6.1
Division (IATA) : PCA Excepted quantities (IATA) : PCA Limited quantities (IATA) : PCA limited quantity max net : quantity (IATA) : PCA packing instructions (IATA) : PCA max net quantity (IATA) : CAO packing instructions (IATA) : CAO max net quantity (IATA) : Special provision (IATA) : ERG code (IATA) :	6.1 E1 Y642 2L 655 60L 663 220L A3, A4, A137 6L
Marine pollutant	Not applicable
Regulations in Japan Regulatory information by sea Regulatory information by air MFAG-No Special transport precautions	 Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law. 153 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 :	Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2) Enforcement Order Art 18-2)

Chemical Name etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2) Benzyl alcohol Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) Chemical substances that cause skin damage, skin-absorbable

harmful substances (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023)

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Japanese Poisonous and Deleterious Substances Control Law	:	Not applicable
Fire Service Law	:	Group 4, Flammable Liquids, Class 3 petroleums, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4)
Air Pollution Control Law	:	Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice to Prefectures)
Law Relating to Prevention of Marine Pollution and Maritime Disasters	:	Noxious Liquid Substances - Category Y (Law Art.3(3), Enforcement Order, Art.1-2, Attached Table No.1 Item 2)
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 17423 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

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