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**Safety Data Sheet****1. Chemical product and company identification****Product name** : 2-Ethylhexyl alcohol**SDS code** : P1-02**Company/undertaking identification** :

HAYASHI PURE CHEMICAL IND.,LTD.

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URL : <https://www.hpc-j.co.jp/>**Emergency number** : 06-6910-7305**2. Hazards identification****GHS classification**

Physical hazards	Desensitized explosives	classification not possible	
	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	
	Health hazards	Acute toxicity (oral)	No classification
		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		Category 2	
Serious eye damage/eye irritation		Category 2A	
Respiratory sensitization		classification not possible	
Skin sensitization		classification not possible	
Germ cell mutagenicity		classification not possible	
Carcinogenicity	classification not possible		
Reproductive toxicity	Category 2		
Specific target organ toxicity (single exposure)	Category 2 (respiratory system)		
Specific target organ toxicity (single exposure)	Category 3 (Narcosis)		
Specific target organ toxicity (repeated exposure)	classification not possible		

Environmental hazards	Aspiration hazard	classification not possible
	Hazardous to the aquatic environment, short-term (acute)	Category 2
	Hazardous to the aquatic environment, long-term (chronic)	No classification
	Hazardous to the ozone layer	classification not possible

Hazard pictograms (GHS JP)



GHS07



GHS08

Signal word (GHS JP)	:	Warning
Hazard statements (GHS JP)	:	Combustible liquid (H227) Causes skin irritation (H315) Causes serious eye irritation (H319) May cause drowsiness or dizziness (H336) Suspected of damaging fertility or the unborn child (H361) May cause damage to organs (respiratory system) (H371) Toxic to aquatic life (H401)
Precautionary statements (GHS JP)	:	
Prevention	:	Obtain special instructions before use. (P201) Do not handle until all safety precautions have been read and understood. (P202) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210) 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) Use only outdoors or in a well-ventilated area. (P271) Avoid release to the environment. (P273) Wear protective gloves/protective clothing/eye protection/face protection. (P280)
Response	:	IF ON SKIN: Wash with plenty of water. (P302+P352) IF INHALED: Remove person to fresh air and keep comfortable for breathing (P304+P340) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338) IF exposed or concerned: Call a POISON CENTER or doctor. (P308+P311) Call a POISON CENTER or doctor if you feel unwell. (P312) If skin irritation occurs: Get medical advice/attention. (P332+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364) In case of fire: Use specify appropriate media to extinguish. (P370+P378)
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
Synonyms	:	Octanol, 2-Ethyl-1-hexanol

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	
2-Ethylhexyl alcohol	≥99.0%, ≤100%	C8H18O	(2)-217	Existing Chemical Substance	104-76-7

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

## 5. Fire fighting measures

- Suitable extinguishing media : Use proper extinguishing media depending on peripheral fire, Water spray, Carbon dioxide, Dry powder, Sand.
- 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 : 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 : 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	
2-Ethylhexyl alcohol	
Exposure limits (JSOH)	1ppm(5.3mg/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, Protective long boots

## 9. Physical and chemical properties

Physical state : Liquid

Appearance : Liquid

Color : colorless transparent

Odor : Slightly aromatic odor

pH : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : 184 – 185 °C

Flash point : 75 °C (tag closed cup)

Auto-ignition temperature : 231 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : 0.136 mm Hg (25°C)

Relative density : No data available

Density : 0.83 g/cm<sup>3</sup> (20°C)

Relative gas density : 4.49 (air=1)

Solubility : Soluble in many organic solvents.  
Water: 0.1% (in water), 2.6% (water in) (20°C)

Partition coefficient n-octanol/water (Log Pow) : 2.3

Explosive limits (vol %) : 1.1 – 12.7 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.

Possibility of hazardous reactions : Reacts violently with strong oxidizing agents.

Conditions to avoid : Sunlight, heat. Ignition sources such as spark, flame and static electricity. Contact with strong oxidizing agents.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No data available

## 11. Toxicological information

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

2-Ethylhexyl alcohol	
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)	classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2A
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	Category 2
STOT-single exposure	Category 2 Category 3 (Narcosis)
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.

2-Ethylhexyl 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 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**

- Industrial Safety and Health Law : Not applicable  
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 (Article 2, Paragraph 4 of the Act) (2002 VOC emission survey report)  
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  
Japanese Pollutant Release and Transfer Register Law (PRTR Law) : Not applicable

**16. Other information**

- Data sources : Handbook of 17120 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.