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**Safety Data Sheet****1. Chemical product and company identification****Product name** : Aniline**SDS code** : A3-13**Company/undertaking identification** :

HAYASHI PURE CHEMICAL IND.,LTD.

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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 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	classification not possible	
	Health hazards	Acute toxicity (oral)	Category 4
		Acute toxicity (dermal)	Category 3
		Acute toxicity (inhalation:gas)	No classification
Acute toxicity (inhalation:vapors)		Category 2	
Acute toxicity (inhalation:dust/mist)		Category 4	
Skin corrosion/irritation		No classification	
Serious eye damage/eye irritation		Category 2A	
Respiratory sensitization		classification not possible	
Skin sensitization		Category 1	
Germ cell mutagenicity		Category 2	
Carcinogenicity	Category 1B		
Reproductive toxicity	Category 2		
Specific target organ toxicity (single exposure)	Category 1 (blood system, nervous system)		

Environmental hazards	Specific target organ toxicity (repeated exposure)	Category 1 (blood system, nervous system)
	Aspiration hazard	classification not possible
	Hazardous to the aquatic environment, short-term (acute)	Category 1
	Hazardous to the aquatic environment, long-term (chronic)	Category 1
	Hazardous to the ozone layer	classification not possible

## Hazard pictograms (GHS JP)



GHS06



GHS08



GHS09

Signal word (GHS JP)

: Danger

Hazard statements (GHS JP)

: Combustible liquid (H227)  
 Harmful if swallowed or if inhaled (H302+H332)  
 Toxic in contact with skin (H311)  
 May cause an allergic skin reaction (H317)  
 Causes serious eye irritation (H319)  
 Fatal if inhaled (H330)  
 Suspected of causing genetic defects (H341)  
 May cause cancer (H350)  
 Suspected of damaging fertility or the unborn child (H361)  
 Causes damage to organs (blood system, nervous system) (H370)  
 Causes damage to organs (blood system, nervous system) through prolonged or repeated exposure (H372)  
 Very toxic to aquatic life with long lasting effects (H410)

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)  
 Contaminated work clothing should not be allowed out of the workplace. (P272)  
 Avoid release to the environment. (P273)  
 Wear protective gloves/protective clothing/eye protection/face protection. (P280)  
 Wear respiratory protection. (P284)

Response

: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. (P301+P312)  
 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)  
 Immediately call a POISON CENTER or doctor. (P310)  
 Get medical advice/attention if you feel unwell. (P314)  
 Rinse mouth. (P330)  
 If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)  
 If eye irritation persists: Get medical advice/attention. (P337+P313)  
 Take off immediately all contaminated clothing and wash it before reuse. (P361+P364)  
 In case of fire: Use specify appropriate media to extinguish. (P370+P378)  
 Collect spillage. (P391)

Storage

: Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Disposal : Store locked up. (P405)  
: 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 : Phenylamine, Aminobenzene

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	
Aniline	$\geq 99\%$ , $\leq 100\%$	C6H7N	(3)-105	Existing Chemical Substance	62-53-3

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 : Foam, 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****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	
Aniline	
Exposure limits (JSOH)	1ppm(3.8mg/m3)(skin)
Exposure limits (ACGIH)	TWA 2 ppm,STEL - (Skin)

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 ~ light yellow

Odor : characteristic odor

pH : No data available

Melting point : -6.2 °C

Freezing point : No data available

Boiling point : 184.4 °C

Flash point : 70 °C (tag closed cup)

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas)	: No data available
Vapor pressure	: 40 Pa (20°C)
Relative density	: No data available
Density	: 1.02 g/ml (20°C)
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: 0.94
Explosive limits (vol %)	: 1.2 – 11 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.
Possibility of hazardous reactions	: Decompose when heating it, corrosive, toxic, and flammable vapor (ammonia, nitrogen oxides) be generated. React violently with strong oxidizing agents, pose a risk of fire and explosion.
Conditions to avoid	: Sunlight, moisture, heat. Ignition sources such as spark, flame and static electricity. Contact with strong oxidizing agents and strong acids.
Incompatible materials	: Strong oxidizing agents, Strong acids
Hazardous decomposition products	: Ammonia, Nitrogen oxides

## 11. Toxicological information

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

Aniline	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	Category 3
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	Category 2
Acute toxicity (inhalation:dust/mist)	Category 4
Skin corrosion/irritation	No classification
Serious eye damage/irritation	Category 2A
Respiratory sensitization	classification not possible
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2
STOT-single exposure	Category 1
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.

Aniline	
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 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) : 1547
- Proper Shipping Name (IMDG) : ANILINE
- Packing group (IMDG) : II
- Transport hazard class(es) (IMDG) : 6.1
- Hazard labels (IMDG) : 6.1
- Class (IMDG) : 6.1
- Division (IMDG) : 6.1
- Special provision (IMDG) : 279
- Packing instructions (IMDG) : P001
- IBC packing instructions (IMDG) : IBC02
- Tank instructions (IMDG) : T7
- Tank special provisions (IMDG) : TP2
- Stowage category (IMDG) : A
- Properties and observations (IMDG) : Colourless, oily, volatile liquid. Reacts with acids. Toxic if swallowed, by skin contact or by inhalation.
- MFAG-No : 153

##### Air transport(IATA)

- UN-No. (IATA) : 1547
- Proper Shipping Name (IATA) : Aniline
- Packing group (IATA) : II
- Transport hazard class(es) (IATA) : 6.1
- Hazard labels (IATA) : 6.1
- Class (IATA) : 6.1
- Division (IATA) : 6.1
- PCA Excepted quantities (IATA) : E4
- PCA Limited quantities (IATA) : Y641
- PCA limited quantity max net quantity (IATA) : 1L
- PCA packing instructions (IATA) : 654
- PCA max net quantity (IATA) : 5L
- CAO packing instructions (IATA) : 662
- CAO max net quantity (IATA) : 60L
- Special provision (IATA) : A113
- 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.
- MFAG-No : 153
- 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

- Chemical Substances Control Law : Priority Assessment Chemical Substances (Law Article 2, Para.5)
- 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 Item 1, Item 2, Attached Table No.9)  
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Item 1, Item 2, Attached Table No.9)  
Aniline (Ordinance number : 19)
- Japanese Poisonous and Deleterious Substances Control Law : Deleterious Substances (Law Art.2, Attached Table 2)  
Aniline

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Fire Service Law	:	Group 4, Flammable Liquids, Class 3 petroleum, Water-insoluble liquids (Act, Art.2, Para.7, Appended Table 1, Group 4)
Air Pollution Control Law	:	Hazardous Air Pollutants (Central Environment Council Report No. 9) 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	:	Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT Notification) 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)
Road Act	:	Restriction for Vehicle Traffic (Enforcement Order Art.19-13, Publication of Japan Highway Public Corp.)
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Class 1 Designated Chemical Substances (Act Art.2 para. 2, Enforcement Order Art.1 Appended Table No.1) Aniline (100%) 【After amendment of April 2023】 Class 1 Designated Chemical Substances (Act, Art.2, Para.2, Enforcement Order, Art.1 Appended Table 1) Aniline (100%)
Labor Standards Act	:	Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Notification No.36 of 1978)

## 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.