

p-Xylene

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 12/2/2010 Revision date: 9/13/2023 SDS code: O6-20 Version: 09

Safety Data Sheet

1. Chemical product and company identification

Product name p-Xylene SDS code O6-20

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 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 3 Flammable solids No classification

Self-reactive substances and

No classification

mixtures

Pyrophoric liquids No classification Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

No classification

gases

Oxidizing liquids No classification Oxidizing solids No classification Organic peroxides No classification

classification not possible Corrosive to metals Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) No classification

> Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) No classification Acute toxicity (inhalation:vapors) Category 4

Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation Category 2

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 Category 2

Specific target organ toxicity (single Category 1 (central nervous system)

exposure)

p-Xylene Version: 09

Revision date: 9/13/2023 SDS code: O6-20

Specific target organ toxicity (single Category 3 (Narcosis)

exposure)

Specific target organ toxicity (single Category 3 (Respiratory tract irritation.)

exposure)

Specific target organ toxicity

(repeated exposure)

classification not possible

Aspiration hazard Category 1
Hazardous to the aquatic Category 2

environment, short-term (acute)

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

Category 2

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)

Environmental

hazards





GHS07





GHS09

GHS02

GHS08

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : Flammable liquid and vapor (H226)

May be fatal if swallowed and enters airways (H304)

Causes skin irritation (H315) Harmful if inhaled (H332)

May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336)

Suspected of damaging fertility or the unborn child (H361) Causes damage to organs (central nervous system) (H370)

Toxic to aquatic life with long lasting effects (H411)

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)

Ground and bond container and receiving equipment. (P240)
Use explosion-proof electrical/ventilating/lighting equipment. (P241)

Use only non-sparking tools. (P242)

Take action to prevent static discharges. (P243)

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 SWALLOWED: Immediately call a POISON CENTER or doctor.

(P301+P310)

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . (P303+P361+P353)

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

breathing (P304+P340)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

Call a POISON CENTER or doctor if you feel unwell. (P312)

Do NOT induce vomiting. (P331)

If skin irritation occurs: Get medical advice/attention. (P332+P313)
Take off contaminated clothing and wash it before reuse. (P362+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)

Store in a well-ventilated place. Keep cool. (P403+P235)

Store locked up. (P405)

p-Xylene

Revision date: 9/13/2023 SDS code: O6-20 Version: 09

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 KIY
p-Xylene	≥96.0% 、 ≤100%	C8H10	(3)-3,(3)-60	4-(1)-39	106-42-3

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

Water spray, Foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

Extremely flammable liquid and vapor.

Fire hazard
Explosion hazard

Danger of the steam explosion in indoor, outdoor, sewer.

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.

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.

Revision date: 9/13/2023 SDS code: O6-20

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.

Take precautionary measures against static discharge.

Use explosion-proof equipment.

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			
p-Xylene			
Japan administration level	50ppm		
Exposure limits (JSOH)	50ppm(217mg/m3)		
Exposure limits (ACGIH)	TWA 20 ppm,STEL -		

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 : Aromatic odor
pH : No data available

Melting point : 13.2 °C

Freezing point : No data available

Boiling point : 138.4 °C

Flash point : 27 °C (tag closed cup)

Auto-ignition temperature : 529 °C

Decomposition temperature : No data available

Revision date: 9/13/2023 SDS code: O6-20

Flammability (solid, gas) : No data available
Vapor pressure : 1333 Pa (27.3°C)
Relative density : 0.864 (20°C)
Density : No data available
Relative gas density : 3.7 (air=1)

Solubility : Easily soluble in alcohol. Easily soluble in diethyl ether.

Water: 0.02 g/100ml (25°C)

Partition coefficient n-

Viscosity, kinematic

Particle characteristics

octanol/water (Log Pow)
Explosive limits (vol %)

: 1.1 – 7 vol %
: No data available

No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : Reacts with strong acids and strong oxidizing agents.

Conditions to avoid : Sunlight, heat. Ignition sources such as sparks, flames and static electricity.

Contact with strong acids and strong oxidizing agents.

Incompatible materials : Strong acids, Strong oxidizing agents

Hazardous decomposition : No data available

products

11. Toxicological information

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

p-Xylene		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	Category 4	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	Category 2	
Serious eye damage/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	Category 2	
STOT-single exposure	Category 1 Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure	classification not possible	
Aspiration hazard	Category 1	

12. Ecological information

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

p-Xylene	
Hazardous to Aquatic Environment - Acute Hazard	Category 2
Hazardous to Aquatic Environment - Chronic Hazard	Category 2
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

SDS code: O6-20

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) : 1307
Proper Shipping Name (IMDG) : XYLENES
Packing group (IMDG) : III

Transport hazard class(es) (IMDG) : 3
Hazard labels (IMDG) : 3
Class (IMDG) : 3
Special provision (IMDG) : 223
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01

Tank special provisions (IMDG)

Stowage category (IMDG)

FOOT,
IBC03

IBC03

Tank instructions (IMDG)

T2

Tank special provisions (IMDG)

Stowage category (IMDG)

A

Flash point (IMDG) : 23°C to 30°C c.c.

Properties and observations (IMDG) : Colourless liquids. Flashpoint: 23°C to 30°C c.c. Explosive limits:

1.1% to 7% Immiscible with water.

MFAG-No : 130

Air transport(IATA)

UN-No. (IATA) : 1307
Proper Shipping Name (IATA) : Xylenes
Packing group (IATA) : III
Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3
Class (IATA) : 3
PCA Excepted quantities (IATA) : F1

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net : 10L

quantity (IATA)

PCA packing instructions (IATA) : 355

PCA max net quantity (IATA) : 60L

CAO packing instructions (IATA) : 366

CAO max net quantity (IATA) : 220L

Special provision (IATA) : A3

ERG code (IATA) : 3L

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.

FAG-No : 1

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 Industrial Safety and Health Law

: Priority Assessment Chemical Substances (Law Article 2, Para.5)

Class 2 Organic Solvents etc. (Enforcement Order, Art., Appended Table 6-2, Ordinance on Prevention of Organic Solvent Poisoning,

Art.1, Para.1, Item 4)

Working Environment Evaluation Standards, Administrative Control

Levels (Law Art.65-2, Para.1)

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)

Industrial Safety and Health Law

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9) Xylene (Ordinance number : 136)

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

Substances on Special medical examination, Current handling workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1)

Japanese Poisonous and

Deleterious Substances Control Law

Water Pollution Prevention Law

Deleterious Substances (Designated Order Art.2)

Xylene

: Designated Chemical Substances (Law Article 2, Paragraph 4,

Enforcement Order Article 3-3)

Fire Service Law : Group 4, Flammable Liquids, Class 2 petroleums, Water-insoluble

liquids (Act, Art.2, Para.7, Appended Table 1, Group 4)

Offensive Odor Control Law : Specified Offensive Odor Substances (Law Art.2-1, Enforcement

Order Art.1)

Air Pollution Control Law : Hazardous Air Pollutants (Central Environment Council Report No. 9)

Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice

to Prefectures)

Law Relating to Prevention of Marine Pollution and Maritime

Disasters

Flammable Substances (Law Art.3,(6)-2, Enforcement Order, Art.1-7,

Attached Table No.1-4)

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 Ship Safety Act : Export Trade Control Ordinance appendix 1-16

Flammable liquids (Dangerous Goods Notification Schedule first

second and third Article Dangerous Goods Regulations)

Civil Aeronautics Law : Flammable liquids (Hazardous materials notice Appended Table 1

Article 194 of the Enforcement Regulations)

Port Regulation Law : Flammable liquids (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 Pablic Corp.)

Waste Management on Public

Cleansing Law

Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment

Order Art.2-4)

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)

Xylene (100%)

Labor Standards Act : Chemical Substances Causing Occupational Illnesses (Act Art.75,

Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification

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.