Xylene



Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/9/2009 Revision date: 4/1/2024 SDS code: C8-15 Version: 14

Safety Data Sheet

1. Chemical product and company identification

Product name : Xylene **SDS code** : C8-15

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

Health hazards

Physical hazards Explosives No classification

Flammable gases

Aerosol

Oxidizing gases

Oxidizing gases

No classification

No classification

No classification

No classification

Category 3

Flammable solids

No classification

No classification

No classification

No classification

No classification

mixtures

nixtures

Pyrophoric liquids No classification
Pyrophoric solids No classification

Self-heating substances and

mixtures

Substances and mixtures which in contact with water emit flammable

gases

No classification

classification not possible

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

Corrosive to metals classification not possible

Desensitized explosives

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation:gas)

Acute toxicity (inhalation:vapors)

Category 4

No classification

Category 4

Category 4

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

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2

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

Carcinogenicity Category 2
Reproductive toxicity Category 1A
Reproductive toxicity (effects on or Additional category

via lactation)

Specific target organ toxicity (single

exposure)

Category 1 (central nervous system, respiratory

system, liver, kidneys)

Specific target organ toxicity (single

exposure)

Category 3 (Narcosis)

Specific target organ toxicity (single

exposure)

Category 3 (Respiratory tract irritation.)

Specific target organ toxicity Category 1 (nervous system, respiratory system,

(repeated exposure)

hearing organs)

Specific target organ toxicity

(repeated exposure)

Category 2 (central nervous system, kidneys)

Aspiration hazard

Category 1

Environmental hazards

Hazardous to the aquatic environment, short-term (acute) Category 2

Hazardous to the aquatic environment, long-term (chronic) Category 2

Hazardous to the ozone layer

classification not possible

Hazard pictograms (GHS JP)







GHS08



GHS02

GHS07

Danger

GHS09

Signal word (GHS JP)

Hazard statements (GHS JP)

Flammable liquid and vapor (H226)

May be fatal if swallowed and enters airways (H304) Harmful in contact with skin or if inhaled (H312+H332)

Causes skin irritation (H315) Causes serious eye irritation (H319) May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336) Suspected of causing cancer (H351)

May damage fertility or the unborn child (H360) May cause harm to breast-fed children (H362)

Causes damage to organs (central nervous system, respiratory system,

liver, kidneys) (H370)

Causes damage to organs (nervous system, respiratory system, hearing

organs) through prolonged or repeated exposure (H372)

May cause damage to organs (central nervous system, kidneys) through

prolonged or repeated exposure (H373)

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) Avoid contact during pregnancy and while nursing. (P263) 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 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)

Get medical advice/attention if you feel unwell. (P314)

Do NOT induce vomiting. (P331)

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)

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)

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 : Mixture

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
Name			CSCL no	ISHL no	CASIKI
Xylene (isomer mixture)	≧80%	C8H10	(3)-3,(3)-60	Existing Chemical Substance	1330-20-7
Ethylbenzene	<20%	C8H10	(3)-28,(3)-60	Existing Chemical Substance	100-41-4
Toluene	≦1%	C7H8	(3)-2,(3)-60	-	108-88-3

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.

Fire hazard

: Extremely flammable liquid and vapor.

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.

Revision date: 4/1/2024 SDS code: C8-15 Version: 14

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

olaces.

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.

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

Component name	Administration level (MHLW)	Exposure limits (JSOH)	
Component name	Administration level (WITEVV)	Standard Value	JSOH OEL C
Xylene (isomer mixture)	50 ppm	-	-
Ethy dhe are an a	20 ppm	87 mg/m³	_
Ethylbenzene		20 ppm	-
Talvana	20 ppm	188 mg/m³	_
Toluene		50 ppm	-

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 : characteristic odor
pH : No data available

Melting point : -47.9 °C

Freezing point : No data available

Boiling point : 139.1 °C

Flash point : 23.2 °C (tag closed cup)

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability : No data available
Vapor pressure : 8.0 hPa (20°C)
Relative density : No data available
Density : 0.864 g/cm³ (20°C)
Relative gas density : No data available

Solubility : Soluble in ethanol. Soluble in diethyl ether. Soluble in acetone.

Water: 0.02 % (20°C)

Partition coefficient n- : 3.2

octanol/water (Log Pow)

Explosive limits (vol %) : 1.1 – 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.

Possibility of hazardous reactions : May ignite or explode on contact with chlorates and nitrates. Reacts with

strong acids and strong oxidizing agents.

Conditions to avoid : Sunlight, heat. Ignition sources such as spark, flame and static electricity.

Contact with strong acids and strong oxidizing agents.

Incompatible materials : Strong acids, 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.

	d on the "GHS Classification Results" by NITE.
As a product	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	Category 4
Acute toxicity (inhalation)	vapors:Category 4 Gases:No classification
	dust, mist:classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible
Carcinogenicity	Category 2
Reproductive toxicity STOT-single exposure	Category 1A Category 1 Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)
STOT-repeated exposure	Category 1 Category 3 (Narcosis) Category 3 (Nespiratory tract initiation.)
Aspiration hazard	Category 1
Xylene (isomer mixture)	1
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	Category 4
Acute toxicity (derinar) Acute toxicity (gas)	No classification
Acute toxicity (gas) Acute toxicity (vapour)	Category 4
Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
	·
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	Category 1B
STOT-single exposure	Category 1 Category 3 (Narcosis)
STOT-repeated exposure	Category 1
Aspiration hazard	Category 1
Ethylbenzene	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	Category 4
Acute toxicity (inhalation:dust/mist)	No classification
Skin corrosion/irritation	classification not possible
Serious eye damage/irritation	Category 2B
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	No classification
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
STOT-single exposure	Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)
• •	
STOT-repeated exposure	Category 1
Aspiration hazard	Category 1
Toluene	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	Category 4
Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation	classification not possible Category 2

Toluene		
Serious eye damage/irritation	Category 2B	
Respiratory sensitization	classification not possible	
Skin sensitization	No classification	
Germ cell mutagenicity	No classification	
Carcinogenicity	classification not possible	
Reproductive toxicity	Category 1A	
STOT-single exposure	Category 1 Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure	Category 1	
Aspiration hazard	Category 1	

12. Ecological information

As a product Hazardous to the aquatic environment, hond-term (acute) Hazardous to the aquatic environment, long-term (chronic) Persistence and degradability No data available Bioaccumulative potential No data available Ozone Category 2 Category 3 Category 4 Category 4 Category 5 Category 5 Category 6 Category 7 Category 8 Category 9 Category 1 Category 9 Category	The information in this section is based on the "GHS Classification Results" by NITE.				
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Mobility in soil No data available	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	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.

Version: 14

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
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T2
Tank special provisions (IMDG) : TP1
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) : E1
PCA Limited quantities (IATA) : Y344

PCA Limited quantities (IATA) : PCA limited quantity max net :

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.

10L

MFAG-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)

Group 2 Specified Chemical Substance, Special Organic Solvents (Ordinance on Prevention of Hazards Due to Specified Chemical

Substances Art.2 Para.1, Items 2, 3-2, 3-3)

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)

Dangerous or Harmful Substances for Notification of Chemical Name

etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2)

Ethylbenzene

Xylene Toluene

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

Revision date: 4/1/2024 SDS code: C8-15

Industrial Safety and Health Law Published Substances of the Guidelines for Preventing the

Impairment of Workers' Health (Act, Art.28, Para.3, MHLW Noticed

Guideline)

Specified Chemical Substances, Special Control Substances (Ordinance on Prevention of Hazards Due to Specified Chemical

Substances Art.38-3)

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

(Act, Art.66, Para.2, Enforcement Order, Art.22 Item 2)

Substances that must be used in impermeable protective equipment based on special regulations (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)

Japanese Poisonous and Deleterious Substances Control Law Deleterious Substances (Designated Order Art.2)

Xylene

Water Pollution Prevention Law

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)

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

Order Art.1)

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

Hazardous Air Pollutants, Priority Substances (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)

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

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)

Ethylbenzene (19%)

Xylene (80%) Toluene (1.0%)

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

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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.