

Phthalates mixed standard solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 4/1/2021 Revision date: 7/5/2022 SDS code: DB-01 Version: 02

Safety Data Sheet

1. Chemical product and company identification

Product name : Phthalates mixed standard solution

SDS code : DB-01

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 a research and experimental use only.

Restrictions on use : Do not use for any purpose other than a research and an experiment. Do not use

on a human body or for animal medicines, foods, household products,

cosmetics, etc. Do not use in a natural environment.

2. Hazards identification

GHS classification

Health hazards

Physical hazards Explosives No classification

Flammable gases

Aerosol

Oxidizing gases

No classification

No classification

No classification

No classification

No classification

Flammable liquids

Flammable solids

No classification

No classification

No classification

No classification

mixtures

Pyrophoric liquids classification not possible

Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

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 eplosives classification not possible
Acute toxicity (oral) classification not possible
Acute toxicity (dermal) classification not possible

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 2

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 3 (Narcosis)

exposure)

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

exposure)

Specific target organ toxicity

(repeated exposure)

Category 1 (nervous system)

Category 1 Aspiration hazard

Environmental hazards

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

Hazardous to the aquatic environment, long-term (chronic) classification not possible

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)







GHS08

GHS02

GHS07

Signal word (GHS JP)

Hazard statements (GHS JP)

Danger

Highly flammable liquid and vapor (H225)

May be fatal if swallowed and enters airways (H304)

Causes skin irritation (H315) Causes serious eye irritation (H319) May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336)

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

repeated exposure (H372) 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)

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 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: Get medical advice/attention. (P308+P313)

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)

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
			CSCL no	ISHL no	CAS KN
Hexane	≧98%	C6H14	(2)-6	Existing Chemical Substance	110-54-3
Dicyclohexyl phthalate	About 0.015%	C20H26O4	(3)-1311	Existing Chemical Substance	84-61-7
Dibutyl phthalate	About 0.015%	C16H22O4	(3)-1303	Existing Chemical Substance	84-74-2
Di-n-heptyl phthalate	About 0.015%	C22H34O4	(3)-1307	Existing Chemical Substance	3648-21-3
Di-n-propyl phthalate	About 0.015%	C14H18O4	-	4-(7)-2329	131-16-8
Di-n-pentyl phthalate	About 0.015%	C18H26O4	-	-	131-18-0
Diethyl phthalate	About 0.015%	C12H14O4	(3)-1301,(7)- 705	Existing Chemical Substance	84-66-2
Butyl benzyl phthalate	About 0.015%	C19H20O4	(3)-1312	Existing Chemical Substance	85-68-7
Bis(2-ethylhexyl) Phthalate	About 0.015%	C24H38O4	(3)-1307	Existing Chemical Substance	117-81-7
Di(2-ethylhexyl) adipate	About 0.015%	C22H42O4	(2)-861,(2)- 879	Existing Chemical Substance	103-23-1

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

Firefighting instructions

In case of fire, product may produce irritative or toxic fumes/gases.

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.

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 : Freeze: -20°C

8. Exposure controls / Personal protection equipment

Exposure limit values		
Hexane		
Japan administration level	40ppm	
Exposure limits (JSOH)	40ppm(140mg/m3)(skin)	
Exposure limits (ACGIH)	TWA 50 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, Protective long boots

9. Physical and chemical properties

Physical state : Liquid
Appearance : Liquid

Color : No data available
Odor : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : 67 °C (as Hexane)

Flash point : -30 °C (tag closed cup, as Hexane)

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative density : No data available

Density : 0.67 g/cm³ (15°C, as Hexane)

Relative gas density : No data available
Solubility : No data available
Partition coefficient n- : No data available

octanol/water (Log Pow)

Explosive limits (vol %) : No data available 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 : Reacts with oxidizing agents, pose a risk of fire or explosion. Erodes certain

kind of plastics, rubbers and coating agents.

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

electricity. Contact with strong oxidizing agents.

Incompatible materials : 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.

As a product	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (inhalation)	vapors:classification not possible

Gases:No classification
dust, mist:classification not possible
Category 2
Category 2
classification not possible
Category 2
Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)
Category 1
Category 1
No classification
classification not possible
No classification
No classification
classification not possible
Category 2
Category 2
classification not possible
classification not possible
No classification
classification not possible
Category 2
Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)
Category 1
Category 1

12. Ecological information

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

As a product			
Hazardous to the aquatic environment, short-term (acute)	Category 2		
Hazardous to the aquatic environment, long-term (chronic)	classification not possible		
Persistence and degradability	No data available		
Bioaccumulative potential	No data available		
Mobility in soil	No data available		
Ozone	classification not possible		
Hexane			
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) 1993

Proper Shipping Name (IMDG) FLAMMABLE LIQUID, N.O.S.

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 3 Hazard labels (IMDG) 3 Class (IMDG) 3 Special provision (IMDG)

274 Limited quantities (IMDG) 1 L E2 Excepted quantities (IMDG) Packing instructions (IMDG) P001 IBC packing instructions (IMDG) IBC02 Tank instructions (IMDG)

TP1, TP28, TP8 Tank special provisions (IMDG)

Stowage category (IMDG) В MFAG-No 128

Air transport(IATA)

UN-No. (IATA) 1993

Proper Shipping Name (IATA) Flammable liquid, n.o.s.

Packing group (IATA) Transport hazard class(es) (IATA) 3 Hazard labels (IATA) 3 Class (IATA) 3 PCA Excepted quantities (IATA) E2 PCA Limited quantities (IATA) Y341 PCA limited quantity max net 1L

quantity (IATA)

PCA packing instructions (IATA) 353 PCA max net quantity (IATA) 5L CAO packing instructions (IATA) 364 CAO max net quantity (IATA) 60L Special provision (IATA) А3 ERG code (IATA) 3Н

Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law. Regulatory information by air

MFAG-No 128

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)

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

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

Item 1, Item 2, Attached Table No.9) Hexane (Ordinance number: 520)

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

Not applicable

Water Pollution Prevention Law Designated Chemical Substances (Law Article 2, Paragraph 4,

Enforcement Order Article 3-3)

Fire Service Law : Group 4 - Flammable liquids - 1st Class petroleums - Insoluble (Law

Art.2 Para.7, Attached Table 1, Group 4)

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)

Foreign Exchange and Foreign

Trade Control Act

: Export Trade Control Ordinance appendix 1-16

Ship Safety Act : 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)

: Restriction for Vehicle Traffic (Enforcement Order Art.19-13,

Dublication of Japan Highway Dablic Corn

Publication of Japan Highway Pablic Corp.)

Waste Management on Public

Cleansing Law

Road Act

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 Oder Art.1 Appended Table No.1)

n-Hexane (≥98%)

[After amendment of April 2023]

Class 1 Designated Chemical Substances (Act, Art.2, Para.2,

Enforcement Order, Art.1 Appended Table 1)

Hexane (≥98%)

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 17322 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.