



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-Feb-2024 Revision Number 3.06

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Hexane for Pesticide Residue And Polychlorinated Biphenyl Tests
Product Code	084-04761,080-04763
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

**GHS** classification Classification of the substance or mixture **Flammable liquids** Skin corrosion/irritation Serious eye damage/eye irritation **Reproductive Toxicity** Specific target organ toxicity (single exposure) Category 3 Respiratory irritation, Narcotic effects Specific target organ toxicity (repeated exposure) Category 1 nervous system Aspiration hazard Acute aquatic toxicity

Category 2 Category 2 Category 2A Category 2 Category 3 Category 1 Category 1 Category 2

**Pictograms** 



Signal word

### **Hazard statements**

- H225 Highly flammable liquid and vapor
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H361 Suspected of damaging fertility or the unborn child
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H304 May be fatal if swallowed and enters airways
- H401 Toxic to aquatic life
- H372 Causes damage to the following organs through prolonged or repeated exposure: nervous system

### **Precautionary statements-(Prevention)**

· Obtain special instructions before use

- · Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Do not eat, drink or smoke when using this product
- · Use only outdoors or in a well-ventilated area
- · Avoid release to the environment
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Keep container tightly closed
- · Ground/bond container and receiving equipment
- · Use explosion-proof electrical/ ventilating / lighting / equipment
- · Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep cool

### **Precautionary statements-(Response)**

- · IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- · If eye irritation persists: Get medical advice/attention
- · If skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- · IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Do NOT induce vomiting
- In case of fire: Use suitable extinguishing media for extinction

### Precautionary statements-(Storage)

- · Store locked up
- · Store in a well-ventilated place. Keep container tightly closed

### Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

### Others

Other hazards

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Single Substance or Mixture** 

Substance

Not available

Formula

### CH3(CH2)4CH3

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Hexane	96.0	86.18	(2)-6	*	110-54-3
Note on ISHL No.: * in the table means announced chemical substances.					

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# Section 4: FIRST AID MEASURES

### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

### **Protection of first-aiders**

Use personal protective equipment as required.

## Section 5: FIRE FIGHTING MEASURES

### Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

### Unsuitable extinguishing media

No information available

### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors may form explosive mixture with air

### Special extinguishing method

No information available

### Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

### Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

### Recoverly, neutralization

No information available

### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# Section 7: HANDLING AND STORAGE

### Handling

### Technical measures

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. Use with local exhaust ventilation.

### Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

### Safety handling precautions

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

### Storage

# Safe storage conditions

Storage conditions

Incompatible substances

Safe packaging material

Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Glass Strong oxidizing agents

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

### **Exposure limits**

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Hexane 110-54-3	TWA: 40 ppm OEL TWA: 140 mg/m³ OEL Skin ISHL/ACL: 40 ppm	ISHL/ACL: 40 ppm	TWA: 50 ppm Skin

### Personal protective equipment Respiratory protection

Hand protection Eye protection gas mask for organic gas (JIS T 8152) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Long-sleeved work clothes

### Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

colorless

### Form

Color
Turbidity
Appearance
Odor
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):
Upper/lower flammability or explosive limits
Upper:
Lower:
Flash point
Auto-ignition temperature:
Decomposition temperature:
pH
Viscosity (coefficient of viscosity)
Dynamic viscosity
Solubilities
JUIUDIIIIIES
n-Octanol/water partition coefficient:(log Pow)
Vanour pressure

Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics clear liquid characteristic odor -95 °C 69 °C Highly flammable liquid and vapor no data available no data available 7.5 vol% 1.1 Vol% -38 °C 225 °C no data available no data available no data available no data available Ethanol and Diethyl ether : Very soluble. water : practically insoluble, or insoluble .

### 3.9 16 kPa 0.658 - 0.662 g/mL 3.0 (Air=1.0)

no data available

# Section 10: STABILITY AND REACTIVITY

Stability

# Reactivity no data available Chemical stability Stable under recommended storage conditions. Hazardous reactions Stable under recommended storage conditions. None under normal processing Conditions to avoid Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark Incompatible materials Strong oxidizing agents Hazardous decomposition products Heat and the state of the

Carbon monooxide (CO), Carbon dioxide (CO2)

# Section 11: TOXICOLOGICAL INFORMATION

Acute	toxicity
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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hexane	15800 mg/kg(Rat)	3297 mg/kg (Rabbit)	48000 ppm ( Rat ) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Hexane	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
1 ionum			Based on the NITE GHS
	classification results.	classification results.	classification results.

### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Hexane	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	
Hexane	Based on the NITE GHS classification results.	
Respiratory or skin sensitization		
Chemical Name	Respiratory or Skin sensitization source information	
Hexane	Based on the NITE GHS classification results.	
Reproductive cell mutagenicity		
Chemical Name	germ cell mutagencity source information	
Hexane	Based on the NITE GHS classification results.	
Carcinogenicity		
Chemical Name	Carcinogenicity source information	
Hexane	Based on the NITE GHS classification results.	

### Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Hexane	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Hexane	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Hexane	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
Hexane	Based on the NITE GHS classification results.

# Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hexane	N/A	LC50:Pimephales promelas 2.1	LC50 : Daphnia magna
		- 2.98 mg/L 96 h	3.88 mg/L 48 h

### Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Hexane	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability	
Bioaccumulative potential	
Mobility in soil	
Hazard to the ozone layer	

No information available No information available No information available No information available

# Section 13: DISPOSAL CONSIDERATIONS

### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. **Contaminated container and contaminated packaging** 

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Section 14: TRANSPORT INFORMATION

### ADR/RID

UN number	UN1208
Proper shipping name:	Hexanes
UN classfication	3
Subsidiary hazard class	
Packing group	11
Marine pollutant	Not applicable
IMDG	
UN number	UN1208
Proper shipping name:	Hexanes
UN classfication	3
Subsidiary hazard class	
Packing group	11
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
ΙΑΤΑ	
UN number	UN1208
Proper shipping name:	Hexanes
UN classfication	3
Subsidiary hazard class	
Packing group	11
Environmentally Hazardous	Not applicable
Substance	

# Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Poisonous and Deleterious Substances Control Law	Category IV, Class I petroleums, dangerous grade 2 Not applicable
	t Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57) Notifiable Substances (Law Art.57-2)
	Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)
	Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)
	Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2,
Industrial Safety and Health Act (	Para.1) 【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
<u>2024~)</u> Act on the Evaluation of	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Chemical Substances and	Thomy Assessment onemical oubstances (Law Article 2, Fara.s)
Regulation of Their	
Manufacture, etc Regulations for the carriage	Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding
and storage of dangerous	Transport by Ship and Storage, Attached Table 1)
goods in ship Civil Aeronautics Law	Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of
	Explosives etc., Attached Table 1)
Marine Pollution Prevention Law	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y Dangerous Substances
Pollutant Release and Transfer	•
Register Law	
(2023.4.1-) Class 1 - No.	392
Export Trade Control Order	Not applicable
Air Pollution Control Law	Hazardous Air Pollutants

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Hexane 110-54-3(96.0)	-	Applicable	Applicable

# **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc
Record of SDS revisions	The following contents were revised. Regulatory information.

### Record of SDS revisions Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. \*JIS: Japanese Industrial Standards

End of Safety Data Sheet