

SAFETY DATA SHEET

According to JIS Z 7253:2019
Revision date 10-Oct-2023
 Revision Number 3.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Ligroin
Product Code	127-05325

Supplier FUJIFILM Wako Pure Chemical Corporation
 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan
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Recommended uses For research use only

Restrictions on use 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	Category 2
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Category 3 Respiratory irritation, Narcotic effects	
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 nervous system	
Aspiration hazard	Category 1

Pictograms



Signal word

Danger

Hazard statements

- H225 - Highly flammable liquid and vapor
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation
- H336 - May cause drowsiness or dizziness
- H304 - May be fatal if swallowed and enters airways
- H372 - Causes damage to the following organs through prolonged or repeated exposure: nervous system

Precautionary statements-(Prevention)

- Use only outdoors or in a well-ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Do not eat, drink or smoke when using this product

- 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)

- Get medical advice/attention if you feel unwell
- 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
- Call a POISON CENTER or doctor/physician if you feel unwell
- 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 Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Ligroin	90	N/A	N/A	N/A	N/A-12-0532-1

Note on ISHL No.: * in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

Substances Remarks: Ligroin
components:2-Methylpentane,3-Methylpentane,Hexane,Methylcyclopentane,2-Methylhexane,3-Methylhexane,Cyclohexane,n-Heptane,Methylcyclohexane,Benzene,Toluene.

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

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 mixtures 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 contaminant and methods and materials for cleaning up

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

Recovery, 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**

Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.

Safe packaging material

Glass

Incompatible substances

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 hand- and eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Toluene 108-88-3	50ppm, 188 mg/m ³ ; percutaneous absorption	ISHL/ACL: 20 ppm	TWA: 20 ppm
Hexane	40ppm, 140mg/m ³ ; skin	ISHL/ACL: 40 ppm	TWA: 50 ppm Skin
Cyclohexane 110-82-7	TWA: 150 ppm OEL TWA: 520 mg/m ³ OEL	N/A	TWA: 100 ppm
n-Heptane 142-82-5	TWA: 200 ppm OEL TWA: 820 mg/m ³ OEL	N/A	STEL: 500 ppm TWA: 400 ppm
2-Methylhexane 591-76-4	N/A	N/A	STEL: 500 ppm TWA: 400 ppm
Methylcyclohexane 108-87-2	TWA: 400 ppm OEL TWA: 1600 mg/m ³ OEL	N/A	TWA: 400 ppm
2-Methylpentane 107-83-5	N/A	N/A	TWA 500ppm ,STEL 1000ppm
Benzene 71-43-2	Skin ISHL/ACL: 1 ppm	ISHL/ACL: 1 ppm	STEL: 2.5 ppm TWA: 0.5 ppm Skin
3-Methylpentane 96-14-0	N/A	N/A	TWA 500ppm, STEL 1000ppm

Personal protective equipment

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

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES**Form**

Color colorless

Turbidity clear

Appearance liquid

Odor

characteristic odor

Melting point/freezing point

no data available

Boiling point, initial boiling point and boiling range

90-125 °C

Flammability

Highly flammable liquid and vapor

Evaporation rate:

no data available

Flammability (solid, gas):

no data available

Upper/lower flammability or**explosive limits****Upper:**

no data available

Lower:

no data available

Flash point

-20 °C

Auto-ignition temperature:

no data available

Decomposition temperature:

no data available

pH

no data available

Viscosity (coefficient of viscosity)

no data available

Dynamic viscosity

no data available

Solubilities

Ethanol and Diethyl ether : Very soluble. water : practically insoluble,or insoluble .

n-Octanol/water partition coefficient:(log Pow)

no data available

Vapour pressure

no data available

Specific Gravity / Relative density

0.68-0.75

Vapour density

no data available

Particle characteristics

no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available
Chemical stability May be altered by light.

Hazardous reactions
 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
 Carbon monoxide (CO), Carbon dioxide (CO₂)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Toluene	5000 mg/kg (Rat)	12000 mg/kg (Rat)	7460 ppm (Rat) 4 h (vapor)
Hexane	15800 mg/kg (Rat)	3297 mg/kg (Rabbit)	48000 ppm (Rat) 4 h
Cyclohexane	> 5000 mg/kg (Rat)	2000 mg/kg (Rat)	>9500 ppmV (Rat) 4h
n-Heptane	5,000 mg/kg (Mouse)	3,000 mg/kg (Rabbit)	103 g/m ³ (Rat)
Methylcyclohexane	> 1000 mg/kg (Rat)	>86,700 mg/kg (Rabbit)	7500 - 10000 ppm (Rat) 2 h 39.6 - 59.9 mg/L (Rabbit) 70 m
Benzene	3,400 - 5,600 mg/kg (Rat)	>8,200 mg/kg (Rabbit)	13,700 ppm (Rat)

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas-source information
Toluene	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust-source information	Acute toxicity -inhalation mist-source information
Toluene	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS Classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Toluene	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Toluene	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Toluene	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagenicity source information
Toluene	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Toluene	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Toluene 108-88-3	-	Group 3	-	-
Benzene 71-43-2	Known	Group 1	A1	Group 1

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Toluene	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Toluene	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Toluene	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Toluene	Based on the NITE GHS classification results.
Hexane	Based on the NITE GHS classification results.
Cyclohexane	Based on the NITE GHS classification results.
n-Heptane	Based on the NITE GHS classification results.
Methylcyclohexane	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Toluene	EC50:Pseudokirchneriella subcapitata 433 mg/L 96 h	LC50:Pimephales promelas 15.22 - 19.05 mg/L 96 h	EC50:Ceriodaphnia dubia 3.78 mg/L 48 h
Hexane	N/A	LC50:Pimephales promelas 2.1 - 2.98 mg/L 96 h	LC50 : Daphnia magna 3.88 mg/L 48 h
Cyclohexane	EC50:Pseudokirchneriella subcapitata 0.94 mg/L 72 h	N/A	EC50: Daphnia magna 0.9 mg/mL 48 h
n-Heptane	N/A	LC50 : Cichlid Fish 375.0 mg/L 96 h	LC50 : Mysidopsis bahia 0.1 mg/L 96 h
Methylcyclohexane	N/A	N/A	EC50 : Daphnia magna 0.33 mg/L 48 h
Benzene	EC50 : Pseudokirchneriella subcapitata 29 mg/L 72 h	LC50 : Oncorhynchus mykiss 5.3 mg/L 96 h EC50 : Fathead mino 0.8 mg/L 32 h	EC50 : Daphnia magna 8.76 - 15.6 mg/L 48 h

Other data

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

	results.	results.
Methylcyclohexane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2-Methylpentane	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Benzene	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	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	UN1268
Proper shipping name:	Petroleum distillates, n.o.s.
UN classification	3
Subsidiary hazard class	
Packing group	II
Marine pollutant	Not applicable

IMDG

UN number	UN1268
Proper shipping name:	Petroleum distillates, n.o.s.
UN classification	3
Subsidiary hazard class	
Packing group	II
Marine pollutant (Sea)	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

IATA

UN number	UN1268
Proper shipping name:	Petroleum products, n.o.s.
UN classification	3
Subsidiary hazard class	
Packing group	II
Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act	Category IV, Class I petroleums, dangerous grade 2
Poisonous and Deleterious Substances Control Law	Not applicable
Industrial Safety and Health Act	Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18) Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9)No.232,407,520,526,531,576 Group 2 Specified Chemical Substance

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc Regulations for the carriage and storage of dangerous goods in ship Civil Aeronautics Law

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4)
Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)
Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2, Para.1)
Priority Assessment Chemical Substances (Law Article 2, Para.5)

Marine Pollution Prevention Law Pollutant Release and Transfer Register Law (2023.4.1-)

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

Flammable Liquids (Ordinance Art.194, MITL Notification for Air Transportation of Explosives etc., Attached Table 1)

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y Dangerous Substances Specified Class 1 No. Class 1

Specified Class 1-No. Class 1 - No.

400
300, 392, 629, 731

Water Pollution Control Act

Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinance Designating Wastewater Standards Art.1)
Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

Export Trade Control Order Air Pollution Control Law Soil Contamination Control Law

Not applicable
Priority Chemical Substances, Specified Substances, Designated Chemical Substances Designated Hazardous Substances

Offensive Odor Control Law

Specified Offensive Odor Substances

Pollution Release and Transfer Registry (~2023.3.31)

Class	Chemical Name in Regulation	(Metal Name)	Control number	Content Rate
Specified Class 1	Benzene		400	>0.1
Class 1	Toluene		300	>5
Class 1	Hexane		392	>5
Class 1	Cyclohexane		629	>1
Class 1	Heptane		731	>1

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Ordinance Number	Weight %
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9, and Law Art.56-1)	Cyclohexane	232	>1
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9, and Law Art.56-1)	Toluene	407	>5
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9, and Law Art.56-1)	Hexane	520	>5
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9, and Law Art.56-1)	Heptane	526	>1
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9, and Law Art.56-1)	Benzene	531	>0.1
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9, and Law Art.56-1)	Methylcyclohexane	576	>1

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 Organic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
etc

Record of SDS revisions

The following contents were revised. Product and company Identification. Fire fighting measures. Exposure controls/personal protection. Toxicological information. Regulatory information.

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