SAFETY DATA SHEET

According to JIS Z 7253:2019
Revision date 08-Nov-2023
Revision Number 2.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Pesticide Mixture Standard Solution PL-3-3 (each 20µg/mL Acetone Solution)
Product Code	162-26673,166-26671

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 +81-6-6203-3741 / +81-3-3270-8571

Recommended uses For research use only
Reference material (as defined in Japanese Industrial Standards (JIS) Q0030)

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
Serious eye damage/eye irritation	Category 2B
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Category 3 Respiratory irritation, Narcotic effects	
Specific target organ toxicity (repeated exposure)	Category 1
Category 1 central nervous system, respiratory system	
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Pictograms

Signal word Danger

Hazard statements

H225 - Highly flammable liquid and vapor
H320 - Causes eye irritation
H361 - Suspected of damaging fertility or the unborn child
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H410 - Very toxic to aquatic life with long lasting effects
H400 - Very toxic to aquatic life
H372 - Causes damage to the following organs through prolonged or repeated exposure: central nervous system, respiratory 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
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- 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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- In case of fire: Use suitable extinguishing media for extinction
- Collect spillage

Precautionary statements-(Storage)

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

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
Acetone	<100	58.08	(2)-542	*	67-64-1
Cyhalothrin	0.0020	449.85	N/A	N/A	68085-85-8
3',4'-Dichloropropionanilide	0.0020	218.08	(3)-263	4-(7)-474	709-98-8
Pyridaben	0.0020	364.93	N/A	8-(2)-1439	96489-71-3
Tebuconazole	0.0020	307.82	(5)-6229	8-(3)-803	107534-96-3
Fipronil	0.0020	437.15	(5)-6414	N/A	120068-37-3
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	0.0020	201.66	(5)-3846	8-(3)-63	122-34-9
Quinoxyfen	0.0020	308.13	N/A	N/A	124495-18-7
Ethoprophos	0.0020	242.34	N/A	N/A	13194-48-4
Acetamiprid	0.0020	222.67	(5)-6415	N/A	160430-64-8
Phenisobromolate	0.0020	428.12	N/A	N/A	18181-80-1
Triazophos	0.0020	313.31	N/A	N/A	24017-47-8
Chlorpyrifos	0.0020	350.59	(5)-3724	8-(1)-1042	2921-88-2
Pirimiphos-methyl	0.0020	305.33	N/A	N/A	29232-93-7
Methyl parathion	0.0020	263.21	N/A	4-(9)-124 4-(9)-128	298-00-0
Diazinon	0.0020	304.35	(5)-923	*	333-41-5
Fenpropathrin	0.0020	349.42	(3)-4573	4-(7)-546	39515-41-8
Profenofos	0.0020	373.63	N/A	N/A	41198-08-7
Oxyfluorfen	0.0020	361.70	N/A	N/A	42874-03-3
Triadimefon	0.0020	293.75	N/A	8-(3)-551	43121-43-3

Chlorobenzilate	0.0020	325.19	(4)-156	*	510-15-6
Fenvalerate	0.0020	419.90	N/A	N/A	51630-58-1
Cypermethrin	0.0020	416.30	N/A	4-(7)-992	52315-07-8
Deltamethrin	0.0020	505.20	N/A	4-(7)-2105	52918-63-5
Bitertanol	0.0020	337.42	N/A	8-(3)-633	55179-31-2
Parathion	0.0020	291.26	N/A	4-(9)-244	56-38-2
Allethrin	0.0020	302.41	(9)-125	3-(3)-5 3-(3)-42 3-(3)-82	584-79-2
Flutolanil	0.0020	323.31	(3)-3925	N/A	66332-96-5

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

Impurities and/or Additives： Not applicable

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 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. To cut with care and wear protective gloves and protective goggles to ampoule time of the opening (Cutting method to check the label). 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 Container protected from light, and store tightly closed in freezer (-20°C). Packed with an inert gas. Store locked up.

Safe packaging material Ampoule

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
Acetone 67-64-1	200ppm(470mg/m^3)	ISHL/ACL: 500 ppm	STEL: 500 ppm TWA: 250 ppm
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine 122-34-9	N/A	N/A	TWA: 0.5 mg/m^3 inhalable particulate matter TWA: 2 mg/m^3 inhalable particulate matter
Chlorpyrifos 2921-88-2	N/A	N/A	TWA: 0.1 mg/m^3 inhalable fraction and vapor Skin
Methyl parathion 298-00-0	N/A	N/A	TWA: 0.02 mg/m^3 inhalable fraction and vapor Skin
Diazinon 333-41-5	TWA: 0.1 mg/m^3 OEL Skin	N/A	TWA: 0.01 mg/m^3 inhalable fraction and vapor Skin
Parathion 56-38-2	TWA: 0.1 mg/m^3 OEL Skin	N/A	TWA: 0.05 mg/m^3 inhalable fraction and vapor Skin
Flutolanil 66332-96-5	TWA: 10 mg/m^3 OEL	N/A	N/A

Chemical Name	Concentration standard value set by the Minister of Health, Labor and Welfare (8hr)	Concentration standard value set by the Minister of Health, Labor and Welfare (Short-Term)
Diazinon 333-41-5	0.01 mg/m^3	N/A

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	-95.3 °C
Boiling point, initial boiling point and boiling range	56 °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:	13.0 vol%
Lower:	2.15 vol%
Flash point	-18 °C
Auto-ignition temperature:	538 °C
Decomposition temperature:	no data available
pH	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	water , Ethanol , Diethyl ether : freely soluble .
n-Octanol/water partition coefficient:(log Pow)	-0.24
Vapour pressure	24.7
Specific Gravity / Relative density	0.789 - 0.792 g/mL
Vapour density	2.0
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 monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Halides, Phosphorus oxide, Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	5800 mg/kg (Rat)	> 7400 mg/kg (Rabbit)	32000 ppm (Rat) 4 h(vapor)
Cyhalothrin	144 mg/kg (Rat)	> 2500 mg/kg (Rabbit)	83 mg/m^3 (Rat) 4 h
3',4'-Dichloropropionanilide	840 mg/kg (Rat) 367 mg/kg (Rat)	4830 mg/kg (Rabbit)	2.8 mg/L (Rat) 4 h
Pyridaben	570 mg/kg (Rat)	> 2 g/kg (Rabbit) > 2 g/kg (Rat) > 2000 mg/kg (Rat)	0.62 mg/L (Rat) 4 h
Tebuconazole	3352 mg/kg (Rat)	> 5000 mg/kg (Rat) > 5 g/kg (Rat)	> 371 mg/m^3 (Rat) 4 h > 5093 mg/m^3 (Rat) 4 h > 800 mg/m^3 (Rat) 4 h
Fipronil	97 mg/kg (Rat)	> 2000 mg/kg (Rat)	0.36 mg/L (Rat) 4 h 0.42 mg/L (Rat) 4 h 0.68 mg/L (Rat) 4 h
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	971 mg/kg (Rat)	> 10200 mg/kg (Rabbit) > 5 g/kg (Rat)	9800 mg/m^3 (Rat) 4 h
Quinoxyfen	>500 mg/kg (Rat)	>2000 mg/kg (Rabbit)	> 3.38 g/m^3 (Rat) 4 h
Ethoprophos	33 mg/kg (Rat) 34 mg/kg (Rat)	8.5 mg/kg (Rabbit) 60 mg/kg (Rat) 2.4 mg/kg (Rabbit)	0.250 mg/L (Rat) 4 h
Acetamiprid	146 mg/kg (Rat)	>2000 mg/kg (Rat)	N/A
Phenisobromolate	5000 mg/kg (Rat)	> 4 g/kg (Rat) 10200 mg/kg (Rabbit)	N/A
Triazophos	57 mg/kg (Rat)	1100 mg/kg (Rat)	280 mg/m^3 (Rat) 4 h
Chlorpyrifos	135 mg/kg (Rat) 82 mg/kg (Rat)	> 5000 mg/kg (Rabbit) 202 mg/kg (Rat) 2 g/kg (Rabbit)	> 200 mg/m^3 (Rat) 4 h
Pirimiphos-methyl	1250 mg/kg (Rat)	> 2000 mg/kg (Rat) > 2000 mg/kg (Rabbit)	> 4.7 mg/L (Rat) 4 h
Methyl parathion	2.9 mg/kg (Rat)	6 mg/kg (Rat)	0.034 mg/L (Rat) 4 h
Diazinon	485 mg/kg (Rat)	3600 mg/kg (Rabbit)	3.10 mg/L (Rat) 4 h
Fenpropathrin	18 mg/kg (Rat)	> 2 g/kg (Rabbit) 870 mg/kg (Rat)	> 556 mg/m^3 (Rat) 4 h (mist)
Profenofos	358 mg/kg (Rat) 510 mg/kg (Rat)	> 4000 mg/kg (Rat) 1610 mg/kg (Rat) 192 mg/kg (Rabbit)	3 g/m^3 (Rat) 4 h
Oxyfluorfen	5 g/kg (Rat)	> 10 g/kg (Rabbit)	N/A
Triadimefon	363 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 0.48 mg/L (Rat) 4 h
Chlorobenzilate	700 mg/kg (Rat)	> 1000 mg/kg (Rabbit)	N/A
Fenvalerate	363 mg/kg (Rat)	> 5000 mg/kg (Rat)	2.810 mg/L (Rat) 4 h
Cypermethrin	195 mg/kg (Rat)	> 5000 mg/kg (Rat) > 2400 mg/kg (Rabbit)	1.26 mg/L (Rat) 4 h
Deltamethrin	9360 µg/kg (Rat)	> 800 mg/kg (Rat) 700 mg/kg (Rat) 2 g/kg (Rabbit)	785 mg/m^3 (Rat) 2 h
Bitertanol	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 0.55 mg / L (Rat) 4 h
Parathion	6.85 mg/kg (Rat)	73 mg/kg (Rat)	0.03 mg/L (Rat) 4 h
Allethrin	709 mg/kg (Rat,male)	>2000 mg/kg (Rat)	>12 mg/L (Rat) 4h
Flutolanil	> 10,000 mg/kg (Rat)	> 5,000 mg/kg (Rat)	> 5.98 mg/L (Rat) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Acetone	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Tebuconazole	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Flutolanil	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
Acetone	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS Classification results.
Fenpropathrin	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Chlorobenzilate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS Classification results.
Cypermethrin	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS Classification results.
Bitertanol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Flutolanil	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
Acetone	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.
Flutolanil	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Acetone	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.
Flutolanil	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Acetone	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.
Flutolanil	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Acetone	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.
Flutolanil	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Acetone	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.

Diazinon	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.
Flutolanil	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Cyhalothrin 68085-85-8		Group 2A		
Pyridaben 96489-71-3		Group 2A		
Fipronil 120068-37-3		Group 2A		
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine 122-34-9		Group 3	A3	
Ethoprophos 13194-48-4		Group 2A		
Triazophos 24017-47-8		Group 2A		
Chlorpyrifos 2921-88-2		Group 2A		
Pirimiphos-methyl 29232-93-7		Group 2A		
Methyl parathion 298-00-0	-	Group 3	-	-
Diazinon 333-41-5		Group 2A		
Fenpropathrin 39515-41-8		Group 2A		
Profenofos 41198-08-7		Group 2A		
Triadimefon 43121-43-3		Group 2B		
Chlorobenzilate 510-15-6		Group 3		
Fenvalerate 51630-58-1		Group 3		
Cypermethrin 52315-07-8		Group 2A		
Deltamethrin 52918-63-5		Group 3		
Parathion 56-38-2		Group 2B		
Allethrin 584-79-2		Group 2A		

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Acetone	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.

Chlorpyrifos	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.
Flutolanil	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Acetone	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.
Flutolanil	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Acetone	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.
Flutolanil	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Acetone	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification results.
Parathion	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.
Flutolanil	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Acetone	*N/A*	*LC50 : Fathead minnow >100 mg/L 96 h*	*N/A*
3',4'-Dichloropropionanilide	*EC50 : Lemna gibba 0.11 mg/L 14d*	*LC50 : Oncorhynchus mykiss 1.8 - 3 mg/L 96 h*	*EC50:Daphnia magna 6.7 mg/L 48 h*
Pyridaben	*N/A*	*LC50: Cyprinus carpio 0.00338 mg/L 96 h*	*N/A*
Fipronil	*ErC50 : Chlorophyta 0.074 mg/L*	*LC50 : Lepomis macrochirus 0.083 mg/L 96 h*	*N/A*
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	*N/A*	*LC50:Pimephales promelas 3.5 - 7.15 mg/L 96 h* *LC50:Lepomis macrochirus 9.9 - 26 mg/L 96 h* *LC50:Lepomis macrochirus 118 mg/L 96 h* *LC50:Poecilia reticulata 49 mg/L 96 h* *LC50:Oncorhynchus mykiss 56 mg/L 96 h* *LC50:Oncorhynchus mykiss 82 mg/L 96 h* *LC50:Oncorhynchus mykiss 10 mg/L 96 h*	*EC50:Daphnia magna 0.56 - 2.2 mg/L 48 h*
Quinoxyfen	*N/A*	*LC50: 0.27mg/L/96hr*	*N/A*
Ethoprophos	*N/A*	*LC50 : Lepomis macrochirus 2.07 mg/L 96 h*	*LC50 : Mysidopsis bahia 0.02 ppm 96 h*
Triazophos	*EC50 : 9.1 mg/L 72 h*	*LC50 : 0.038 mg/L 96 h*	*EC50 : 0.0026 mg/L 48 h*
Chlorpyrifos	*N/A*	*LC50:Oncorhynchus mykiss 0.002 - 0.032 mg/L 96 h* *LC50:Lepomis macrochirus 0.0047 - 0.0075 mg/L 96 h*	*EC50:Daphnia magna 0.00009 - 0.00012 mg/L 48 h* *EC50:Daphnia magna 0.00012 - 0.00023 mg/L 48 h*

		LC50:Pimephales promelas 0.11 - 0.13 mg/L 96 h LC50:Oncorhynchus mykiss 0.001 mg/L 96 h LC50:Lepomis macrochirus 0.0013 mg/L 96 h LC50:Lepomis macrochirus 0.0026 mg/L 96 h LC50:Poecilia reticulata 0.00717 mg/L 96 h LC50:Cyprinus carpio 0.008 mg/L 96 h LC50:Oncorhynchus mykiss 0.011 mg/L 96 h	
Pirimiphos-methyl	*N/A*	*LC50 : Cyprinus carpio 0.679 mg a.i./L 96 h*	*EC50 : Daphnia magna 0.000314 mg a.i./L 48 h*
Methyl parathion	*N/A*	*N/A*	*LC50 : Daphnia magna 0.00014 mg/L 48 h*
Diazinon	*EC50:Desmodesmus subspicatus 17.3 mg/L 120 h EC50:Desmodesmus subspicatus 6.4 mg/L 168 h*	*LC50:Pimephales promelas 0.4 - 0.8 mg/L 96 h LC50:Pimephales promelas 4.7 mg/L 96 h LC50:Cyprinus carpio 3.43 mg/L 96 h LC50:Cyprinus carpio 0.000072 mg/L 96 h LC50:Poecilia reticulata 4 mg/L 96 h LC50:Poecilia reticulata 0.8 mg/L 96 h LC50:Poecilia reticulata 3 mg/L 96 h LC50:Lepomis macrochirus 0.022 mg/L 96 h LC50:Oncorhynchus mykiss 0.09 mg/L 96 h LC50:Oncorhynchus mykiss 2.3 mg/L 96 h LC50:Pimephales promelas 3.4 - 5.2 mg/L 96 h LC50:Lepomis macrochirus 0.31 - 0.62 mg/L 96 h*	*EC50:Gammarus fasciatus 0.20 ppb*
Fenpropathrin	*N/A*	*LC50:Oncorhynchus mykiss 0.0086 mg/L 24 h*	*N/A*
Profenofos	*N/A*	*N/A*	*EC50 : Daphnia magna 0.84 µg/L 48 h*
Oxyfluorfen	*N/A*	*LC50 : Lepomis macrochirus 0.2 mg/L 96 h*	*EC50 : Daphnia magna 0.5 mg/L 48 h*
Triadimefon	*EC50:Pseudokirchneriella subcapitata 0.72 - 1.1 mg/L 96 h static EC50:Desmodesmus subspicatus 1.71 mg/L 96 h static*	*LC50:Oncorhynchus mykiss 12 - 16 mg/L 96 h LC50:Oncorhynchus mykiss 3.3 - 5 mg/L 96 h LC50:Lepomis macrochirus 7 - 14.3 mg/L 96 h LC50:Lepomis macrochirus 9.7 - 12 mg/L 96 h LC50:Oncorhynchus mykiss 17.4 mg/L 96 h*	*EC50:Daphnia magna 1.2 - 2.1 mg/L 48 h EC50:Daphnia magna 11.3 mg/L 48 h*
Chlorobenzilate	*N/A*	*LC50 : Cyprinodon variegatus 0.88 mg/L 96 h*	*N/A*
Fenvalerate	*N/A*	*LC50:Cyprinus carpio 0.0027 mg/L 96 h*	*LC50: Mysidopsis bahia 0.008 ug/L 96 h*

Cypermethrin	*N/A*	*LC50 : Oncorhynchus mykiss 0.00283 mg/L 96 h*	*EC50 : Gammarus fasciatus 0.004 ug/L 96 h*
Deltamethrin	*N/A*	*LC50 : rainbow trout 0.0002 mg/L 96 h*	*N/A*
Bitertanol	*N/A*	*LC50 : Cyprinus caprio 3.5 mg/L 96 h*	*EC50 : Daphnia magna 7 mg/L 48 h*
Parathion	*EC50:Desmodesmus subspicatus 10 mg/L 72 h EC50:Pseudokirchneriella subcapitata 3.59 mg/L 72 h*	*LC50:Lepomis macrochirus 0.01 - 0.032 mg/L 96 h LC50:Pimephales promelas 0.24 - 1.03 mg/L 96 h LC50:Oncorhynchus mykiss 0.37 - 1.64 mg/L 96 h LC50:Oncorhynchus mykiss 0.699 - 1.070 mg/L 96 h LC50:Lepomis macrochirus 0.026 mg/L 96 h LC50:Pimephales promelas 0.25 mg/L 96 h LC50:Cyprinus carpio 0.85 mg/L 96 h*	*LC50 : Gammarus fasciatus 0.0009 mg/L 48 h*
Allethrin	*N/A*	*LC50:Oncorhynchus kisutch 0.0026 mg/L 96hr*	*N/A*
Flutolanil	*N/A*	*LC50： Cyprinus carpio 3.16 mg a.i./L 96 h (a.i.: active ingredient)*	*N/A*

Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Acetone	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
3',4'-Dichloropropionanilide	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pyridaben	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Tebuconazole	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fipronil	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2-Chloro-4,6-bis(ethylamino)-1,3,5-triazine	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Ethoprophos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Acetamiprid	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Chlorpyrifos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Pirimiphos-methyl	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Methyl parathion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Diazinon	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fenpropathrin	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Profenofos	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Chlorobenzilate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Fenvalerate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Cypermethrin	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Bitertanol	Based on the NITE GHS classification	Based on the NITE GHS classification

	results.	results.
Parathion	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Allethrin	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Flutolanil	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 UN1090
Proper shipping name: Acetone
UN classfication 3
Subsidiary hazard class
Packing group II
Marine pollutant Yes

IMDG
UN number UN1090
Proper shipping name: Acetone
UN classfication 3
Subsidiary hazard class
Packing group II
Marine pollutant (Sea) Yes
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

IATA
UN number UN1090
Proper shipping name: Acetone
UN classfication 3
Subsidiary hazard class
Packing group II
Environmentally Hazardous Substance Yes

Section 15: REGULATORY INFORMATION

Japanese regulations
Fire Service Act Category IV, Class I petroleums, dangerous grade 2 water-soluble
Poisonous and Deleterious Substances Control Law Specified Poisonous Substances 1st. Grade
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 Oder Art.18-2 Attached Table No.9)No.17 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, Para.1)
Regulations for the carriage and storage of dangerous goods in ship	Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)
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 Z
Pollutant Release and Transfer Register Law (2023.4.1-)	Not applicable
Water Pollution Control Act	Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating Wastewater Standards Art.1) Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)
Export Trade Control Order	Appendix 2 Export Approval Item
Narcotics and Psychotropics Control Law	
Air Pollution Control Law	Hazardous Air Pollutants
Soil Contamination Control Law	Designated Hazardous Substances

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-)
Acetone 67-64-1 (<100)	-	Applicable	-
Cyhalothrin 68085-85-8 (0.0020)	Applicable	-	-
Pyridaben 96489-71-3 (0.0020)	Applicable	-	-
Ethoprophos 13194-48-4 (0.0020)	Applicable	-	-
Methyl parathion 298-00-0 (0.0020)	Applicable	-	-
Fenvalerate 51630-58-1 (0.0020)	Applicable	-	-
Cypermethrin 52315-07-8 (0.0020)	Applicable	-	-
Deltamethrin 52918-63-5 (0.0020)	Applicable	-	-
Parathion 56-38-2 (0.0020)	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. Prodauct and company Identification. Fire fighting

measures. Exposure controls/personal protection. Toxicological information. Ecological 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