

SAFETY DATA SHEET

According to JIS Z 7253:2019
Revision date 22-Dec-2023
Revision Number 1.02

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	6 Phenols Mixture Standard Solution (Acetone Solution)
Product Code	163-28521,169-28523

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

Serious eye damage/eye irritation

Germ cell mutagenicity

Carcinogenicity

Reproductive Toxicity

Specific target organ toxicity (single exposure)

Category 3 Respiratory irritation, Narcotic effects

Specific target organ toxicity (repeated exposure)

Category 1 central nervous system, respiratory system

Category 2

Category 2B

Category 1B

Category 2

Category 1B

Category 3

Category 1

Pictograms



Signal word

Danger

Hazard statements

H225 - Highly flammable liquid and vapor

H320 - Causes eye irritation

H340 - May cause genetic defects

H351 - Suspected of causing cancer

H360 - May damage fertility or the unborn child

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

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

- 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
- 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

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
Acetone	99.40	58.08	(2)-542	*	67-64-1
2,6-Dichlorophenol	0.10	163.00	(3)-930	*	87-65-0
2,4,6-Trichlorophenol	0.10	197.45	(3)-931	*	88-06-2
o-Chlorophenol	0.10	128.56	(3)-895	*	95-57-8
p-Chlorophenol	0.10	128.56	(3)-895	4-(10)-208	106-48-9
Phenol	0.10	94.11	(3)-481	10-3046	108-95-2
2,4-Dichlorophenol	0.10	163.00	(3)-930,(3)-903	*	120-83-2

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

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. 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

Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. 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
Phenol 108-95-2	TWA: 5 ppm OEL TWA: 19 mg/m ³ OEL Skin	N/A	TWA: 5 ppm Skin

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

Data except for the appearance is described as a solvent.

Form

Color colorless
Turbidity clear
Appearance liquid

Odor

no data available

Melting point/freezing point

no data available

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:

no data available

Lower:

no data available

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

No data available

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

-0.24

Vapour pressure

no data available

Specific Gravity / Relative density

0.789 - 0.792 g/mL

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 productsCarbon monoxide (CO), Carbon dioxide (CO₂), Halides

Section 11: TOXICOLOGICAL INFORMATION
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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)
2,6-Dichlorophenol	2940 mg/kg (Rat)	N/A	N/A
2,4,6-Trichlorophenol	820 mg/kg (Rat)	N/A	N/A
o-Chlorophenol	2000 mg/kg (Rat)	1000 - 1580 mg/kg (Rabit)	2270 ppm (Rat) 4 h
p-Chlorophenol	500 mg/kg (Rat)	1500 mg/kg (Rat)	1.010 mg/m ³ (Rat) 4 h
Phenol	340 - 530 mg/kg (Rat)	630 mg/kg (Rabbit) 525 - 714 mg/kg (Rat)	> 900 mg/m ³ (Rat) 8 h
2,4-Dichlorophenol	2830 mg/kg (Rat)	780 mg/kg (Rat)	0.97 mg/L (Rat)

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.
2,6-Dichlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2,4-Dichlorophenol	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.
2,6-Dichlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2,4-Dichlorophenol	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.
2,6-Dichlorophenol	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.

o-Chlorophenol	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.
2,4-Dichlorophenol	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.
2,6-Dichlorophenol	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.
2,4-Dichlorophenol	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.
2,6-Dichlorophenol	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.
2,4-Dichlorophenol	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagenicity source information
Acetone	Based on the NITE GHS classification results.
2,6-Dichlorophenol	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.
2,4-Dichlorophenol	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Acetone	Based on the NITE GHS classification results.
2,6-Dichlorophenol	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.
2,4-Dichlorophenol	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
2,6-Dichlorophenol 87-65-0		Group 2B		Group 2B
2,4,6-Trichlorophenol 88-06-2	Reasonably Anticipated	Group 2B		Group 2B
Phenol 108-95-2	-	Group 3	-	-
2,4-Dichlorophenol 120-83-2		Group 2B		Group 2B

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Acetone	Based on the NITE GHS classification results.
2,6-Dichlorophenol	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.

2,4-Dichlorophenol	Based on the NITE GHS classification results.
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STOT-single exposure

Chemical Name	STOT -single exposure- source information
Acetone	Based on the NITE GHS classification results.
2,6-Dichlorophenol	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.
2,4-Dichlorophenol	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.
2,6-Dichlorophenol	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.
2,4-Dichlorophenol	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Acetone	Based on the NITE GHS classification results.
2,6-Dichlorophenol	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.
2,4-Dichlorophenol	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
2,6-Dichlorophenol	N/A	N/A	EC50 : Daphnia magna 3.4 mg/L 48 h
2,4,6-Trichlorophenol	EC50:Desmodesmus subspicatus 11.2 mg/L 96 h	LC50:Lepomis macrochirus 0.3 mg/L 96 h	EC50:Daphnia magna 1.8 - 2.6 mg/L 48 h
o-Chlorophenol	EC50:Selenastrum capricornutum 70 mg/L 96 h	LC50:Pimephales promelas 8.64 - 10.2 mg/L 96 h	EC50: Daphnia magna 3.9 mg/L 48 h
p-Chlorophenol	EC50:Pseudokirchneriella subcapitata 2.29 - 41.7 mg/L 96 h EC50:Pseudokirchneriella subcapitata 3.34 - 18.7 mg/L 72 h EC50:Pseudokirchneriella subcapitata 38 mg/L 96 h static EC50:Desmodesmus subspicatus 8 mg/L 96 h static EC50:Desmodesmus subspicatus	LC50:Lepomis macrochirus 3.1 - 4.8 mg/L 96 h LC50:Pimephales promelas 3.4 - 4.3 mg/L 96 h LC50:Oryzias latipes 3.7 - 6.6 mg/L 96 h LC50:Pimephales promelas 5.43 - 6.87 mg/L 96 h LC50:Oncorhynchus mykiss 1.91 mg/L 96 h LC50:Brachydanio rerio 5.6 mg/L 96 h LC50:Poecilia reticulata 9 mg/L 96 h	EC50:Daphnia magna 2.5 mg/L 48 h

	8.3 mg/L 72 h static		
Phenol	EC50 : <i>Desmodesmus subspicatus</i> 187 - 279 mg/L 72 h static	LC50 : <i>Oncorhynchus mykiss</i> 4.23 - 7.49 mg/L 96 h	LC50 : <i>Ceriodaphnia dubia</i> 3.1 mg/L 48 h
2,4-Dichlorophenol	EC50: <i>Pseudokirchneriella subcapitata</i> 14 mg/L 96 h static	LC50: <i>Oncorhynchus mykiss</i> 2.182 - 3.108 mg/L 96 h	LC50: <i>Daphnia magna</i> 1.4 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
Acetone	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2,6-Dichlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2,4,6-Trichlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
o-Chlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
p-Chlorophenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Phenol	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
2,4-Dichlorophenol	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 classification	3
Subsidiary hazard class	
Packing group	II
Marine pollutant	Not applicable

IMDG

UN number	UN1090
Proper shipping name:	Acetone
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 UN1090
Proper shipping name: Acetone
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 water-soluble
Poisonous and Deleterious Substances Control Law Deleterious Substances 3rd. 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 Order Art.18-2 Attached Table No.9)
 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)
 Priority Assessment Chemical Substances (Law Article 2, Para.5)
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc
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 Notification 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 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

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 (99.40)	-	Applicable	-
o-Chlorophenol 95-57-8 (0.10)	-	Applicable	-
p-Chlorophenol 106-48-9 (0.10)	-	Applicable	-
Phenol 108-95-2 (0.10)	-	Applicable	-
2,4-Dichlorophenol 120-83-2 (0.10)	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 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. 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