



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 04-Feb-2023 Revision Number 2.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Germ	anium			
Product Code	079-0	0251			
Manufacturer	1-2 Dos Chuo-kı Phone:	M Wako Pure Chem homachi 3-Chome J, Osaka 540-8605, +81-6-6203-3741 1-6-6203-5964			
Supplier	1-2 Dos Phone:	M Wako Pure Chem homachi 3-Chome, +81-6-6203-3741 1-6-6203-2029	ical Corporation Chuo-ku, Osaka 540	-8605, Japan	
Emergency telephone n Recommended uses an restrictions on use		203-3741 / +81-3-32 earch use only	270-8571		
	Section	1 2: HAZARDS	IDENTIFICATI	ON	
GHS classification Classification of the sul Not a hazardous substan		_ ing to the Globally H	armonized System (	GHS)	
Pictograms Signal word	None				
Hazard statements Not a hazardous subs	stance or mixture acc	ording to the Global	y Harmonized Syste	em (GHS)	
Precautionary statement • Not applicable Precautionary statement • Not applicable Precautionary statement	ts-(Response)				
Not applicable     Precautionary statemen     Not applicable	ts-(Disposal)				
Others Other hazards	Not ava	ilable			
Sec	tion 3: COMPO	<b>DSITION/INFO</b>	RMATION ON I	NGREDIENTS	
Single Substance or Mix	<b>xture</b> Substar	nce			
Formula	Ge				
Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Germanium	99.99 ( subtracting method )	72.64	-	N/A	7440-56-4

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

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

Unsuitable extinguishing media

No information available

### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### 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

Sweep up and gather scattered particles, and collect it in an empty airtight container.

# 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

Avoid contact with 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

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

### <u>Storage</u>

### Safe storage conditions

Storage conditions

Safe packaging material Incompatible substances

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

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

Eye protection

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

### **Exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Personal protective equipment Respiratory protection Hand protection

Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

#### Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Form

Color
Appearance
Odor
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):
Upper/lower flammability or
explosive limits
Upper:
Lower:
Flash point
Auto-ignition temperature:
Decomposition temperature:
рН
Viscosity (coefficient of viscosity)
Dynamic viscosity
Solubilities
n-Octanol/water partition coefficient:(log Pow)
Vapour pressure
Specific Gravity / Relative density
Vapour density
Particle characteristics

grayish brown crystalline powder - powder no data available 937 °C 2,850 °C no data available no data available no data available

no data available no data available no data available no data available no data available no data available no data available no data available no data available s.35 no data available no data available no data available no data available

# Section 10: STABILITY AND REACTIVITY

### Stability

Reactivity Chemical stability	no data available Stable under recommended storage conditions.
Hazardous reactions	-
None under normal processing	
Conditions to avoid	
Extremes of temperature and dire	ect sunlight
Incompatible materials	
Strong oxidizing agents	
Hazardous decomposition product	ts
Carbon monooxide (CO), Carbon	dioxide (CO2), Metal oxides

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
Germanium	N/A	N/A	> 5.34 g/m³ (Rat)4 h	

Skin irritation/corrosion	no data available
Serious eye damage/ irritation	no data available
Respiratory or skin sensitization	no data available
Reproductive cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

### Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

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

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

# Section 13: DISPOSAL CONSIDERATIONS

#### Waste from residues

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

Contaminated container and contaminated packaging

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

# Section 14: TRANSPORT INFORMATION

ADR/RID

Not regulated

**UN number** Proper shipping name: **UN classfication** Subsidiary hazard class **Packing group** 

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

# Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	Listed
TSCA	Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	tNot applicable
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law	
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	
<u>(2023/4/1~)</u>	
Export Trade Control Order	Not 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

#### Disclaimer

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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 Z7252(2019). \*JIS: Japanese Industrial Standards

End of Safety Data Sheet