

SAFETY DATA SHEET

Revision date : 2017/11/27

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Taimicron(High purity Alumina)

Name of Manufacturer :

Taimei Chemicals Co., Ltd.

3746, Minami-minowa-mura, Kamiina-gun, Nagano-pref, Japan

Kitatono factory TEL : +81-265-78-8086 FAX : +81-265-74-1601

Tokyo Sales office TEL : +81-3-3563-2491 FAX : +81-3-3563-2498

2. HAZARDS IDENTIFICATION

In the GHS classification it is as follows, but it is not Dangerous goods.
However, please take safety measures.

GHS Classification ¹⁾

Health Hazards

Aluminum Oxide :

Specific Target Organ Systemic Toxicity / Single exposure : Category 3

Specific Target Organ Systemic Toxicity / Repeated exposure : Category 1

※ Hazards other than the above, "Not applicable", "Not classified" or
"can not be classified".

GHS Label Elements

Pictogram



Signal Word : Danger

Hazard statements : Causes damage to organs through prolonged or repeated exposure.
May cause respiratory irritation.

Precautionary statements

【Safety measure】 : When using, do not drink and eat and smoke.

Use only outdoors or in a well-ventilated area.

Do not breathe the dust.

During handling, Wear protective gloves/protective clothing/
eye protection/face protection.

After handling, wash face and hands with water, gargle with water.

【First aid】 : If Inhaled : After rinsing the throat with water, move to
fresh air.

If discomfort persists, consult a physician.

If in Eyes : Rinse cautiously with water for several minutes.

Remove the contact lenses, it will be washed
until stimulus is eliminated.

If eye irritation persists, get medical advice/
attention.

If on Skin : Wash with soap and water. If there is skin irritation, receive medical attention.

If Ingested : After rinsing the mouth, drink water. If you feel unwell, get immediate medical advice/attention.

【Storage】 : The vessel was sealed, please keep locked.

【Disposal】 : Dispose of contents/container in accordance with local/regional/national/international regulation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Substance / Mixture : Chemical Substance
Chemical Name : Aluminum Oxide (synonyms: Alumina)
Formula : Al_2O_3
Concentration : Min 90%
CAS No. : 1344-28-1

4. FIRST-AID MEASURES

Inhalation : After rinsing the throat with water, move to fresh air.
If discomfort persists, consult a physician.
Skin contact : Wash with soap and water.
If there is skin irritation, receive medical attention.
Eye contact : Rinse cautiously with water for several minutes. Remove the contact lenses, it will be washed until stimulus is eliminated.
If eye irritation persists, get medical advice/attention.
Ingestion : After rinsing the mouth, drink water.
If you feel unwell, get immediate medical advice/attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media : Use any means suitable for extinguishing surrounding fire.
Unsuitable extinguishing media : None.
Special hazards : None.
Protection of fire fighters : Firefighters should wear suitable protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Protective equipment and emergency procedures :
When performing the process, Wear suitable protective equipment (section 8).
Environmental precautions :
Prevented from flowing into the rivers.
Please contact when impact on humans and aquatic life is a concern.
Removal measures :
Collect in empty appropriate container.
In the case of a small amount, should be discarded after neutralization with slaked lime, calcium carbonate, soda ash etc.
Prevention of secondary disaster : Please covered with a sheet for shatterproof.

7. HANDLING AND STORAGE

Handling

Technical measures : Please adequate ventilation by the overall ventilation and local exhaust.

Safe handling advice : Wear suitable protective equipment (section 8).

Hygiene measure : After handling, wash face and hands with water.

Storage

Conditions for safe storage : The vessel was sealed, please keep locked.

Safe packaging materials : Use a sealable container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Limit Value

Japan Industry Hygienic Society ²⁾ : Applicable the first-class dust as Alumina
Inhalation dust = 0.5 mg/m³ , Total dust = 2 mg/m³

ACGIH ³⁾ : As insoluble Aluminum salts TWA(Time Weighted Average) = 1 mg/m³

Engineering measures : Install the following equipment as necessary.
(Local exhaust ventilation, general ventilation, hand wash, eyewash equipment)

Protective Equipment

Respiratory protection : Wear a dust mask.

Hand protection : Wear impervious gloves.

Eye protection : Wear safety glasses.

Body protection : Wear a cloth of the protection against dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White Powder

Odor : None

pH : 5.5~6.5 (25g/100ml, 25 °C)

Melting point : 2000~2100 °C

Boiling Point : About 3000 °C

Flash point : Incombustibility

Flammability or Explosive Limits : No data available

Vapor pressure : No data available

Specific Gravity : 3.6~4.0

Solubility : Insoluble in water

n-Octanol / water partition coefficient : No data available

Spontaneous ignition temperature : Incombustibility

10. STABILITY AND REACTIVITY

Reactivity : None

Chemical stability : Chemically stable

Hazardous reactions possible : None

Conditions to avoid : The occurrence of dust, spreading.

Incompatible materials : None

Hazardous decomposition products : None

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	: LCLo = 357 mg/m ³ (mouse 60 days, inhalation) ⁴⁾
Skin Corrosion/Irritation	: No data available
Serious Eye Damage/Eye Irritation	: No data available
Respiratory or Skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through repeated exposure.
Aspiration hazard	: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity	: No valid information
Persistence / degradability	: None
Bioaccumulation	: No data available
Mobility in soil	: None
Harmful to the Ozone layer	: No data available

13. DISPOSAL CONSIDERATIONS

Residual waste	: Avoid release to the environment. When disposing, please follow all regulations in your country.
Pollution container and packaging	: After washing with water, should be disposed of in accordance with all regulations of your country.

14. TRANSPORT INFORMATION

See Section 7. HANDLING AND STORAGE.	
Avoid rough handling or dropping.	
Follow all regulations in your country.	
UN number	: None
IATA DGR/ICAO TI	: Not Restricted
IMDG code	: Not Restricted

15. REGULATORY INFORMATION

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

After referring to this SDS, please managing this product to conforms against all regulations of your country or region.

16. OTHER INFORMATION**REFERENCES**

- Japanese Industrial Standards Z 7253 (2012)
- 1) GHS Classification , Announced officially by National Institute of Technology and Evaluation (Japan).
- 2) Japan Industry Hygienic Society, Industrial Medicine.
- 3) ACGIH - Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices.
- 4) Our technical data.

IMPORTANT NOTE:

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