

Yasui Fuji Powder: Premium Platinum Investment Kit (Part A)

1. Identification of material and supplier

Product name: YASUI FUJI POWDER
Company Name: Romanoff International Supply Corp.
Address: 9 Deforest St, Amityville NY, 11701
Charge section: Manufacturing Section
Telephone number: 81-572-22-4301
Chemtel number: Chemtel, Account# CCN 620995
USA, CANADA 1-800-255-3924 AUSTRALIA: 1-300-954-583
BRAZIL: 0-800-591-6042 CHINA: 400-120-0751 INDIA: 000-800-100-4086
MEXICO: 01-800-099-0731 ALL OTHER COUNTRIES: 1-813-248-0585

2. Hazards identification

GHS classification.

Physicochemical hazards :

Explosives	Classification not possible
Flammable or flammable gases (chemical including gas that is unstable)	Not applicable
Aerosol	Not applicable
Flame retardant or oxidizing gas	Not applicable
High-pressure gas	Not applicable
Flammable Liquids	Not applicable
Flammable solids	Classification not possible
Self-reactive chemicals	Classification not possible
Spontaneously flammable liquids	Not applicable
Spontaneous flammable solids	Classification not possible
Self-heating chemicals	Classification not possible
Water-reaction flammable chemicals	Classification not possible
Oxidized liquids	Not applicable
Oxidizing solids	Classification not possible
Organic peroxides	Classification not possible
Metal corrosive materials	Classification not possible

Health hazards :

Acute toxicity (Oral)	Classification not possible
Acute toxicity (transdermal)	Classification not possible
Acute toxicity (inhalation : gas)	Not applicable

Acute toxicity (inhalation : vapor)	Not applicable
Acute toxicity (inhalation : dust, mist)	Classification not possible
Skin corrosion/irritation	Classification not possible
Serious eye damage/irritation	Classification not possible
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Not classified
Specific target organ toxicity (single exposure)	Category 1 (respiratory system)
Specific target organ toxicity (repeated exposure)	Category 1 (respiratory system, kidney)
Aspiration hazards	Classification not possible
Environmental hazards :	
Aqueous environmental hazards (acute)	Classification not possible
Aqueous environmental hazards (chronic)	Classification not possible
Hazard for ozonelayer	Classification not possible

GHS label element



Signal Word

Danger

Hazard information

May cause carcinogenesis

Respiratory disorders

Damage to the respiratory system or kidneys through prolonged or repeated exposure

Note

Safety measures

Obtain SDS before use, do not handle it until you read and understand safety precautions.

Do not inhale dust.

Wash your hands thoroughly after handling.

Wear appropriate protective equipment (gloves, clothes, glasses, surfaces).

Emergency measures

If there is exposure or concerns, seek medical advice and treatment.

Disposal or Storage

Appropriate storage, and destruction of contents and containers shall be handled appropriately in accordance with relevant laws and regulations and local government regulations.

3. Organization and ingredient information

Distinction of single product /mixture: Single product

Chemical name or commonname: Silicon dioxide, Quartz (crystal)

Chemical name or commonname	Content (%)	Official Gazette notice reference number	CAS number
Silicon dioxide, Quartz (crystal)	98% or more	(1) -548	14808-60-7

4. First aid measures

If inhaled Change the place with good ventilation and rested calmly. if you have subjective symptoms such as nausea, headache, get medical attention immediately.

If In contact with skin Wash it with water and soap.
If skin irritation occurs, seek medical advice and treatment.

If in eyes If it gets in your eyes, wash carefully with water for a few minutes.
Next, if you are wearing contact lenses, If it can be easily removed, remove it. and Continue cleaning after that.
If eye irritation persists, seek medical advice and attention.

If swallowed If swallowed, wash with sufficient gargling. However, if swallowed in large quantities, you will receive medical attention.

5. Fire-fighting measures

Extinguishing media: agent powder type, carbon dioxide type, foam type

Unsuitable extinguishing media: Nothing special

Protection of fire extinguishing: When extinguishing fire, wear respiratory protective equipment, etc. to avoid inhaling toxic gases, and wear appropriate protective equipment (gloves, glasses, etc.) as necessary.
Wear protective equipment such as disaster prevention and protective front apron.

6. Accidental release measures

Precautions, protective equipment, and emergency measures against the human body Ban non-related persons off limits.
Workers should wear appropriate protective equipment and avoid contact or inhalation of the eyes and skin.

Environmental precautions

Never discharge into the environment.

Be cautious for discharging to rivers and like and also not affect the environment.

Collection and neutralization
Containment and purification
methods and equipment

Collect leaks using a wet vacuum cleaner and collect them in a container that can be sealed.

7. Handling and storage

Handling

Technical measures

Appropriate ventilation, local exhaust, and collection are carried out.

Safety precautions

Do not inhale dust.

Wear appropriate protective equipment (gloves, glasses, etc.) as necessary.

Contact avoidance

Wear appropriate protective equipment (boots, gloves, etc.) as necessary

Storage

Safe storage conditions

Avoid direct sunlight and store in a well ventilated indoors with no moisture or fire sources.

Containers and packaging
materials

Use sealed containers.

8. Exposure controls /Personal protection

Equipment measures

Appropriate ventilation, local exhaust, and precipitating are carried out.

Allowable concentration

Chemical name or common name	Content (%)	Biological indicators	ACGIH
Silicon dioxide, Quartz (crystal)	98% or more	0.03 mg/m ³ (Inhaled crystalline silica)	TLV0.025 mg/m ³ (TWA)

Protective equipment

Respiratory protection

Wear a suitable dust mask.

Hand protection

Wear rubber gloves if necessary.

Eye protection

Wear eyeglasses, face shield, goggles, etc.

Skin and bodyprotective

Wear protective clothing if necessary.

Reuse after washing.

After handling, Wash your hands well.

9. Physical and chemical properties

Physical state

Shape	Powder
Color	white
Odor	Odorless

Melting point/freezingpoint	1,610°C
Boiling point, initial point and boiling range	No data
Flash point	None (non-combustible)
Spontaneous ignition temperature	No data
Upper and lower limits of combustion or explosion range	No data
Vapor pressure	No data
Relative density	2-3g / cm ³
Solubility Almost	Insoluble
n-octanol/water distribution coefficient	No data
Decomposition temperature	No data

10. Stability and reactivity

Reactive	Stable at room temperature and atmospheric pressure
Chemical stability	Stable at room temperature and normal pressure
Risk adverse reactions possible	None
Conditions to avoid	None
Dangerous substances	Strong oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, etc.
Hazardous degradation products	React with hydrofluoric acid to produce silicon tetrafluoride, a corrosive gas

11. Hazards information

Acute toxicity

Oral LD50 rat > 22,500mg / kg

Skin corrosion/irritation	No data
Serious eye damage /irritation	No data
Respiratory or skin sensitisation	No data
Germ cell mutagenicity	No data
Carcinogenicity	Group 1 (International Agency for Cancer Research)
Reproductive toxicity	No data
Specific target organs toxicity (single exposure)	No data
Specific target organ attribute (repeated exposure)	No data
Suction respiratory hazards	No data

12. Environmental impact information

Ecotoxicity	None
Persistence and degradability	Non-degradable
Bioaccumulation	Non-accumulation
Mobility in the soil	Almost none
Hazard to the ozonelayer	No data

13. Disposal precautions

Safe and desirable disposal method

Appropriately dispose of in accordance with related laws and regulations and local government regulations.

Proper treatment method for containers

Appropriately dispose of in accordance with related laws and regulations and local government regulations.

14. Transportation precautions

United Nations Regulations

Number	N/A
Product name (United Nations Transport Name)	N/A
UNITED NATIONS Classification	N/A
Container grade	N/A
Marine contaminants	N/A
Liquid materials that are bulky transported by the MARPOL Convention and IBC code	N/A

Domestic regulations

Land Transport	N/A
Marine Transport	N/A
Air transport	N/A
Special safety measures relating to transport or means of transport, Be careful not to get wet, absorb, tear, collapse, or fall.	

15. Application laws and ordinances

PRTR law	N/A
The Industrial Safety and Health Act (Anwei Act)	
Falls under dangerous goods and 182 hazardous substances to be notified of the names, etc. stipulated in Appendix 9 of The Cabinet Order.	

SAFETY DATA SHEET

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Pneumoconiosis Law

The work using this product may correspond to the dust work of Article 2, Paragraph 1, Item 3 of the Pneumoconiosis Act.

Poisons and Substances Control Act (Toxic poison method) N/A

Gunpowder Control Act N/A

High Pressure Gas Safety Act N/A

Fire Service Law N/A

The Law Concerning the Examination and Regulation
of Manufacture, etc. of Chemical Substances

(or the Chemical Substances Control Law) N/A

Ship Safety Act N/A

Aviation Law N/A

Marine Protection Act, Marine Pollution Prevention Act N/A

[Other information]

This Safety Data Sheet (SDS) is based on the latest materials and data currently available and may be revised with new insights. In addition, the notes in SDS are intended for normal handling. When the product user is handled specially, please implement the safety measures suitable for the application and usage, and use the product. In addition, although the Company pays close attention to the contents of SDS, we do not guarantee the content.

Yasui Fuji Powder: Premium Platinum Investment Kit (Part B)

1. Identification of material and supplier

Product name: YASUI FUJI BINDER
Company Name: Romanoff International Supply Corp.
Address: 9 Deforest St, Amityville NY, 11701
Charge section: Manufacturing Section
Telephone number: 81-572-22-4301
Chemtel number: Chemtel, Account# CCN 620995
USA, CANADA 1-800-255-3924 AUSTRALIA: 1-300-954-583
BRAZIL: 0-800-591-6042 CHINA: 400-120-0751 INDIA: 000-800-100-4086
MEXICO: 01-800-099-0731 ALL OTHER COUNTRIES: 1-813-248-0585

2. Hazard identification

< GHS Classification >

Physical hazards : All items do not correspond to GHS classification.

Health hazards

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 1

Other items without mention do not correspond to GHS classification.

Environmental hazards : All items do not correspond to GHS classification.

< GHS label elements >

Symbol :



Signal word : Danger

Hazard statement : Causes skin irritation (H315)
Causes serious eye damage (H318)

Precautionary statements

【Prevention】 : Wear protective gloves/protective clothing/eye protection/face protection. (P280)
Wash hands thoroughly after handling. (P264)

【First aid measures】

IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

IF ON SKIN : Immediately call a POISON CENTER/doctor. (P310)
Wash with plenty of water. (P302+P352)

If skin irritation occurs

: Get medical advice/attention. (P332+P313)
Take off contaminated clothing and wash it before reuse. (P362+P364)
< Other hazards not applicable to GHS classification >
A long time or frequent inhalation may cause lung damage.

3. Composition/information on ingredients

Classification of Chemical substance/Mixture
: Chemical substance
Chemical entity : Aluminum Phosphate

Ingredient	CAS RN	ENCS	EINECS	Composition (%)
Mono Aluminum Phosphate { $\text{Al}(\text{H}_2\text{PO}_4)_3$ }	13530-50-2	1-24	236-875-2	94 ~
(as Al_2O_3				16.0 - 18.0)
as P_2O_5				63.0 - 67.0)

CAS RN : Chemical Abstracts Service registry number
ENCS : Existing & New Chemical Substances (Japan)
EINECS : the European Inventory of Existing Commercial Chemical Substances

4. First aid measures

If inhaled : Remove person to fresh air and keep comfortable for breathing.
Get medical advice/attention if you unwell.
If on skin : Wash thoroughly with plenty of water.
If skin irritation occurs, get medical advice/attention.
Wash contaminated clothing before reuse.
If in eyes : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
If swallowed : Rinse mouth. Do Not induce vomiting.
Immediately call a POISON CENTER/doctor.

Notes for protection of person performing first aid measures
: Wear appropriate protective equipment such as acid-resistant gloves and safety glasses.

5. Fire fighting measures

Suitable Extinguishing media : Water sprayer, powder extinguisher, foam fire extinguisher, carbon dioxide gas extinguisher, sand, etc.
Unsuitable Extinguishing media : No information.
Specific hazards arising from the chemical : Irritating or toxic fumes or gases may generated by the thermal decomposition.

Special Information : Stop the flammable things to be supplied to the fire and extinguish by appropriate extinguisher from the windward side. If there is no danger, immediately move the product to the safe place if contained in portable container. Prevent the product leakage into public sewage or river caused by discharging water for extinguishing fires.

Special protective equipment and precautions for fire-fighters : Wear appropriate respiratory protector and heat-resistant protective clothing and extinguish from windward at the fire fighting work.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Do not handle with the bare hands. Wear appropriate protective equipment such as gloves, glasses, etc. and avoid contact with skin and eyes at the recovery work. Ventilate if necessary.

Environmental precautions : Prevent the product from inflowing to public water such as drainage ditches, sewer ditches and rivers.

Methods and materials for containment and cleaning up

: In case of large quantity, cover with sheet etc. to prevent scattering.
Collect into some empty containers with a vacuum cleaner, shovel, or broom.
Wash out residue with a lot of water.

Prevention measure of secondary disaster

: Prevent the inflow to drainage ditches, sewer ditches, basements or closed places.

7. Handling and storage

Handling

: Avoid long time or frequent exposure.
In case it dusts, improve the circumstance of workplace by local ventilation facility etc. Use in a well-ventilated place.
Wear protective equipment such as gloves, glasses, etc.
After handling, wash hands and face, and rinse mouth.

Storage

Conditions for safe storage : For keeping quality, seal the container and avoid the direct sunlight and store away high temperature and humidity.

Safe container material : Store in acid-resistant container with the sufficient strength. (e.g. Vinyl chloride, Polyethylene, FRP, or Rubber-lined container)

8. Exposure controls/personal protection

Administrative Control Level : Not set

Occupational exposure limits etc.

Japan Society for Occupational Health

: Not set

ACGIH

: Not set

Facility measures : In case it dusts, local ventilation facility etc. is recommended to be located.
Body-shower, hand-washer and eye-washer facilities are recommended to be located near the handling place.

Personal protection

Respiratory protection : Wear dust mask.
Hand protection : Wear acid-resistant gloves.
Eye protection : Wear protective eyeglasses (goggles type).
Protection of skin and body : Wear protective long-sleeved work clothes.

9. Physical and chemical properties

Physical state : Solid (Powder)
Colour : White
Odour : Almost odourless
Melting point/Freezing point : No data
Boiling point or Initial boiling point and boiling range : No data
Flammability : Non-flammable
Lower and upper explosion limit/flammability limit : Not applicable to solid
Flash point : Not applicable to solid
Auto-ignition temperature : Non-flammable
Decomposition temperature : No data
pH : ≤ 2 (50% solution)
Kinematic viscosity : Not applicable to solid
Solubility : Mixable with water in any ratio.
Partition coefficient n-octanol/water(log value) : No data
Vapour pressure : No data
Density and/or relative density : Bulk specific gravity 0.6 - 0.8 (g/cm³)
Relative vapour density : Not applicable to solid
Particle characteristics : No data

10. Stability and reactivity

Reactivity : No information.
Chemical stability : Stable under the normal handling.
It is highly hygroscopic and solidifies in humid environments. (Problems of quality.)
Possibility of hazardous reactions : No hazardous reactions are known under the normal handling.
Conditions to avoid : Storage in a metal container.
Incompatible materials : No information.
Hazardous decomposition products : No information.

11. Toxicological information

Acute toxicity

(Oral)	: Classification not possible	No data
(Dermal)	: Classification not possible	No data
(Inhalation : dust)	: Classification not possible	No data

Skin corrosion/irritation : Category 2
Based on experience.

Serious eye damage/eye irritation

: Category 1 pH ≤ 2 (50% solution)

Respiratory sensitization	: Classification not possible	No data
Skin sensitization	: Classification not possible	No data
Germ cell mutagenicity	: Classification not possible	No data
Carcinogenicity	: Classification not possible	No data
Reproductive toxicity	: Classification not possible	No data
Specific target organ systemic toxicity (single exposure)	: Classification not possible	No data
Specific target organ systemic toxicity (repeated exposure)	: Classification not possible	No data
Aspiration hazard	: Classification not possible	No data

< Other hazards not applicable to GHS classification >

A long time or frequent inhalation may cause lung damage.

12. Ecological information

Hazardous to the aquatic environment short-term (acute) hazard

: Classification not possible No data

Hazardous to the aquatic environment long-term (chronic) hazard

: Classification not possible No data

Hazardous to the ozone layer

: Classification not possible

Ecotoxicity

: No data

Persistence and degradability

: No data

Bioaccumulative potential

: No data

Mobility in soil

: No data

Hazardous to the ozone layer

: Not listed in the Annexes to the Montreal Protocol.

13. Disposal considerations

Information on the safe and environmentally desirable disposal or recycling of chemicals, contaminated containers and packaging

: Dispose after neutralizing with slaked lime, calcium carbonate, soda ash, etc.

Dispose in accordance with company standards or entrust disposal contractor who is approved by local government. Provide the contractor with the information about risks, hazards.

Contaminated containers dispose after removing the residue inside the containers completely.

Comply with the related country or local regulations.

14. Transport information

UN Number : Not applicable to dangerous goods defined by the United Nations.

Specific safety measures and conditions on transport : See "Handling and Storage".
Transport with containers which is sufficiently strong and not broken or deform easily.
Ascertain that the chemical is not leaking from the container and give attention not to turn over, fall down or damaging the product.

Regulations of international

Land transport : Comply with ADR/RID.

Marine transport : Comply with IMO.

Air transport : Comply with ICAO/IAT.

Regulations of Japan

Land transport : Comply with "Road Act (Japan)", "Industrial Safety and Health Act (Japan)".

Marine transport : Comply with "Ship Safety Act (Japan)".

Regulations for the Carriage and Storage of Dangerous Goods by Ship, Article 3 : Not regulated

Air transport : Comply with "Civil Aeronautics Act (Japan)".

Ordinance for Enforcement of the Civil Aeronautics Act, Article 194 : Not regulated

15. Regulatory information**Japan regulation**

Name of applicable act and information on regulations based on the act

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Class I Designated Chemical Substance : Not regulated

Class II Designated Chemical Substance : Not regulated

Specific Class I Designated Chemical Substance : Not regulated

Industrial Safety and Health Act

Labeling substances : Aluminum and its water-soluble salts

Notifiable substances : Aluminum and its water-soluble salts

Poisonous and Deleterious Substance Control Act

Poisonous Substances : Not regulated

Deleterious Substances : Not regulated

Name of other applicable act and information on regulations based on the act

Explosives Control Act : Not regulated

High-pressure gas Safety Act : Not regulated

Fire Service Act

Hazardous materials : Not regulated

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I Specified Chemical Substances

: Not regulated

Class II Specified Chemical Substances

: Not regulated

Monitoring Chemical Substances

: Not regulated

Priority Assessment Chemical Substances

: Not regulated

Act on Prevention of Marine Pollution and Maritime Disaster

Noxious liquid substance : Not regulated

The regulatory information above doesn't cover all of the regulations. Please refer to all applicable international, national and local regulations.

16. Other information

This SDS is made based on "Hazard communication of chemicals based on GHS-Labeling and Safety Data Sheet(SDS) [JIS Z 7250:2019]" and "Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals(GHS)" [JIS Z 7252:2019]"

Note

- *1 "Globally Harmonized System of Classification and Labelling of Chemicals (GHS) sixth revised edition" published by The Chemical Daily Co., Ltd..
- *2 Incorporated administrative agency National Institute of Technology and Evaluation (NITE)
- *3 "GHS Guidelines-Labels and Labeling / Safety Data Sheet Creation Guidelines" published by Japanese Standards Association.