

# Safety Data Sheet

Prepared August 7, 2012  
Revised March 20, 2023

## 1. Identification

Product name : SUY-1

Company : Tokushu Kinzoku Excel Co., Ltd.  
 Address : 56 Tamagawa Tokigawa-machi Hiki-gun Saitama, Japan  
 Contact department : ISO Secretariat  
 Tell : 0493-65-3577  
 Fax : 0493-65-4479  
 Reference : JIS Z 7253 : 2019  
 NITE Chemical Risk Information Platform (NITE-CHRIP)

## 2. Hazard identification

GHS classification

Physical hazards

|  |                               |
|--|-------------------------------|
| Explosives   | : No classification           |
| Flammable gases  | : No classification           |
| Aerosols   | : No classification           |
| Oxidizing gases  | : No classification           |
| Gases under pressure   | : No classification           |
| Flammable liquids  | : No classification           |
| Flammable solids   | : No classification           |
| Self-reactive substances and mixtures                                      | : No classification           |
| Phyrophoric liquids  | : No classification           |
| Phyrophoric solids   | : Classification not possible |
| Self-heating substances and mixtures                                       | : No classification           |
| Substances and mixtures which, in contact with water, emit flammable gases | : Classification not possible |
| Oxidizing liquids  | : No classification           |
| Oxidizing solids   | : No classification           |
| Organic peroxides  | : No classification           |
| Corrosive to metals  | : Classification not possible |
| Desensitized explosives  | : No classification           |

Health hazards

|  |                               |
|--|-------------------------------|
| Acute toxicity - Oral                            | : No classification           |
| Acute toxicity - Dermal                          | : No classification           |
| Acute toxicity - Gases                           | : Classification not possible |
| Acute toxicity - Vapours                         | : Classification not possible |
| Acute toxicity - Dusts and Mists                 | : No classification           |
| Skin corrosion/irritation                        | : No classification           |
| Serious eye damage/irritation                    | : No classification           |
| Respiratory sensitization                        | : No classification           |
| Skin sensitization                               | : Category 1                  |
| Germ cell mutagenicity                           | : Classification not possible |
| Carcinogenicity                                  | : Category 2                  |
| Reproductive toxicity                            | : Category 1                  |
| Specific target organ toxicity - Single exposure | : No classification           |

Specific target organ toxicity - Repeated exposure : No classification  
 Aspiration hazard : Classification not possible  
 Environmental hazards  
 Hazardous to the aquatic environment - Short-term (acute) hazard : No classification  
 Hazardous to the aquatic environment - Long-term (chronic) hazard : No classification  
 Hazardous to the ozone layer : Classification not possible

## Label elements

Symbol



Single word

Danger

## Hazard statement

- H317 May cause an allergic skin reaction
- H351 Suspected of causing cancer
- H360 May damage fertility or the unborn child

## Precautionary statements

Prevention

- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P302+P352 IF ON SKIN: Wash with plenty of water.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.

Storage

- P405 Store locked up.

Disposal

- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**3. Composition/information on ingredients**

Chemical identity of the substance : Mixture (Alloy)

Common names, synonym of the substance: Soft magnetic irons

Identification number and concentration of all hazardous ingredients

| Chemical name | Formula | Percent (%) | CAS No.   |
|---------------|---------|-------------|-----------|
| Iron          | Fe      | Balance     | 7439-89-6 |
| Manganese     | Mn      | ≤0.5        | 7439-96-5 |
| Silicon       | Si      | ≤0.2        | 7440-21-3 |
| Nickel        | Ni      | ≤0.1        | 7440-02-0 |
| Copper        | Cu      | ≤0.1        | 7440-50-8 |

\*The component may include 0.1% or less of trace elements.

**4. First-aid measures**

- Inhalation : Remove person to fresh air and keep comfortable for breathing.  
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- Skin contact : Wash with plenty of soap and water.  
IF exposed or concerned: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.
- Eye contact : 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.
- Swallowing : Rinse mouth. Immediately consult a doctor.

**5. Fire-fighting measures**

- Suitable extinguishing media : Foam fire extinguisher, sand
- Unsuitable extinguishing media : CO<sub>2</sub>, water spray

**6. Accidental release measures**

It is the solid with the shape, and there is not the applicable matter.

**7. Handling and storage**

- Handling : Be careful with falling accident. Wear safeguard tools to be not injured by sharp edge.
- Storage : Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

**8. Exposure controls/personal protection**

Control concentration :

| Name                         | ACGIH                   | Japan Society for Occupational Health |
|------------------------------|-------------------------|---------------------------------------|
|                              | TWA(mg/m <sup>3</sup> ) | AEL(mg/m <sup>3</sup> )               |
| Manganese                    | 0.02(R)/0.1(I)          | 0.2                                   |
| Nickel                       | 1.5(I)                  | 1                                     |
| Copper(Dusts and mists/Fume) | 1/0.2                   | -                                     |

Remarks

Reference: NITE Chemical Risk Information Platform (NITE-CHRIP)

(R): Respirable fraction

(I): Inhalable fraction

Protective equipment

Respiratory protection : If powder occurs: local exhaust or breathing protection

Hand protection : If the fingers may be damaged: protective gloves

Eye protection : If powder occurs: safety goggles

Skin protection : If heavy goods are handled: protective cloth

**9. Physical and chemical properties**

- Physical state : Tabular solid
- Colour : Silver
- Odour : Odorless
- Density : 7.87 g/cm<sup>3</sup>
- Other physical and chemical properties : No data

**10. Stability and reactivity**

Reactivity : Generally this product is considering a stable material.  
 Chemical stability : Generally this product is considering a stable material.  
 Possibility of hazardous reactions : Hydrogen is produced in response to acid.  
 Conditions to avoid : Contact with the acid  
 Incompatible materials : Potassium permanganate, chlorate, acid  
 Hazardous decomposition products : Hydrogen

**11. Toxicological information**

| Name                          | Mn  | Ni                                      | Cu   |
|-------------------------------|---|---|--|
| Acute toxicity                |   |   |  |
| - Oral                        | Not classified                                | Not classified                          | Classification not possible  |
| - Dermal                      | Classification not possible                   | Classification not possible             | Classification not possible  |
| - Gases                       | Not applicable                                | Not applicable                          | Not applicable   |
| - Vapours                     | Classification not possible                   | Classification not possible             | Not applicable   |
| - Dusts and Mists             | Classification not possible                   | Classification not possible             | Classification not possible  |
| Skin corrosion/irritation     | Category 3                                    | Classification not possible             | Classification not possible  |
| Serious eye damage/irritation | Category 2B                                   | Classification not possible             | Classification not possible  |
| Respiratory sensitization     | Classification not possible                   | Category 1                              | Classification not possible  |
| Skin sensitization            | Classification not possible                   | Category 1                              | Category 1A  |
| Germ cell mutagenicity        | Classification not possible                   | Classification not possible             | Classification not possible  |
| Carcinogenicity               | Not classified                                | Category 2                              | Classification not possible  |
| Reproductive toxicity         | Category 1B                                   | Classification not possible             | Classification not possible  |
| STOT - Single exposure        | Category 1 (respiratory system)               | Category 1 (respiratory system, kidney) | Category 1 (digestive system), Category 3 (respiratory tract irritation) |
| STOT - Repeated exposure      | Category 1 (nerve system, respiratory system) | Category 1 (respiratory system)         | Classification not possible  |
| Aspiration hazard             | Classification not possible                   | Classification not possible             | Classification not possible  |

Reference: NITE Chemical Risk Information Platform (NITE-CHRIP)

**12. Ecological information**

Hazardous to the aquatic environment\_acute hazard  
: No classification  
Hazardous to the aquatic environment\_long-term hazard  
: No classification  
Hazardous to the ozone layer  
: No data  
Other ecological information  
: No data

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**13. Disposal considerations**

Dispose of contents/container in accordance with local/regional/national/international regulations.

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**14. Transport information**

UN No : Not applicable  
Domestic restriction  
Fire Service Act : Not applicable  
Ship Safety Act : Not applicable  
Civil Aeronautics Act : Not applicable  
International restriction  
IMO information : Not applicable  
IATA/ICAO information : Not applicable

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**15. Regulatory information**

Industrial Safety and Health Act  
Manganese and its compounds : 550  
Nickel and its compounds : 418  
Copper and its compounds : 379  
PRTR  
Not applicable

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**16. Other information**

The Safety Data Sheet (SDS) is designed to provide forwarding and handling agents with reference information on the safe handling of dangerous and hazardous chemical materials.

In making use of this safety data sheet, forwarding and handling agents are requested to understand on their own responsibility the necessity of taking appropriate measures compatible with the individual forwarding and handling operations.

This safety data sheet should not therefore be regarded as a guarantee of safety.

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