

Safety Data Sheet

Prepared January 12, 2012
Revised March 27, 2026

1. Identification

Product name : SK-5M / SK85M

Company : Tokushu Kinzoku Excel Co., Ltd.
 Address : 56 Tamagawa Tokigawa-machi Hiki-gun Saitama, Japan
 Contact department : ISO Secretariat
 Tell : +81-493-65-3577
 Fax : +81-493-65-4479
 Emergency phone number : Same as above
 Recommended use : Various precision equipment, industrial equipment, industrial blades/tools, etc.
 Restrictions on use : Seek the judgment of a specialist, such as a chemical substance manager, if there is a possibility that dust may be generated by processing, or similar operations.
 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 | : No classification |
| 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 | : Category 1 |
| 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

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- 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.
- P284 In case of inadequate ventilation, wear respiratory protection.

Response

- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- 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: Cold rolled special steel strip

Identification number and concentration of all hazardous ingredients

| Chemical name | Formula | Percent (%) | CAS No. |
|---------------|---------|-------------|-----------|
| Iron | Fe | Balance | 7439-89-6 |
| Carbon | C | 0.8 - 0.9 | 7440-44-0 |
| Manganese | Mn | 0.1 - 0.5 | 7439-96-5 |
| Silicon | Si | 0.1 - 0.35 | 7440-21-3 |
| Chromium | Cr | ≦0.3 | 7440-47-3 |
| Nickel | Ni | ≦0.25 | 7440-02-0 |
| Copper | Cu | ≦0.25 | 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 : CO₂, 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 ³) | AEL(mg/m ³) |
| Manganese | 0.02(R)/0.1(I) | 0.2 |
| Chromium | 0.5 | 0.5 |
| 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 : 7.8 g/cm³
 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 | Manganese | Chromium | Nickel | Copper |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Acute toxicity | | | | |
| - Oral | Not classified | Classification not possible | Not classified | Classification not possible |
| - Dermal | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| - Gases | Not applicable | Not applicable | Not applicable | Not applicable |
| - Vapours | Classification not possible | Classification not possible | Classification not possible | Not applicable |
| - Dusts and Mists | Not classified | Classification not possible | Classification not possible | Classification not possible |
| Skin corrosion/irritation | Not classified | Classification not possible | Classification not possible | Classification not possible |
| Serious eye damage/irritation | Not classified | Category 2 | Classification not possible | Classification not possible |
| Respiratory sensitization | Classification not possible | Category 1A | Category 1 | Classification not possible |
| Skin sensitization | Not classified | Category 1A | Category 1 | Category 1A |
| Germ cell mutagenicity | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| Carcinogenicity | Classification not possible | Classification not possible | Category 2 | Classification not possible |
| Reproductive toxicity | Category 1B | Classification not possible | Classification not possible | Classification not possible |

| | | | | |
|--------------------------|---|---|---|--|
| STOT - Single exposure | Classification not possible | Category 3 (respiratory tract irritation) | Category 1 (respiratory system, kidney) | Category 1 (digestive system), Category 3 (respiratory tract irritation) |
| STOT - Repeated exposure | Category 1 (nerve system, respiratory system) | Classification not possible | Category 1 (respiratory system) | Classification not possible |
| Aspiration hazard | Classification not possible | 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

13. Disposal considerations

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

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

15. Regulatory information

| Regulation (Japan) | Iron | Manganese | Chromium |
|---|--|--|---|
| Industrial Safety and Health Act | - | Appendix No. 9-30 of the Cabinet Order | Appendix No. 9-11 of the Cabinet Order |
| PRTR Law (Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement) | - | - | - |
| Poisonous and Deleterious Substances Control Act | - | - | - |
| Air Pollution Control Act | - | Cabinet Order: Central Environment Council 9th Report (Table 1), No. 225 | Cabinet Order: Central Environment Council 9th Report (Table 1), No. 49 |
| Water Pollution Control Act | Cabinet Order: Article 3-3, Item 52 | Cabinet Order: Article 3-3, Item 51 | Cabinet Order: Article 3-3, Item 50 |
| Soil Contamination Countermeasures Act | - | - | - |
| Fire Service Act | Iron powder : Class 2 - Flammable Solid | - | - |

| Regulation (Japan) | Nickel | Copper |
|---|--|--|
| Industrial Safety and Health Act | Appendix No. 9-24 of the Cabinet Order | Appendix No. 9-22 of the Cabinet Order |
| PRTR Law (Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement) | - | - |
| Poisonous and Deleterious Substances Control Act | - | - |
| Air Pollution Control Act | Cabinet Order: Central Environment Council 9th Report (Table 1), No. 148 | Cabinet Order: Central Environment Council 9th Report (Table 1), No. 128 |
| Water Pollution Control Act | Cabinet Order: Article 3-3, Item 45 | Cabinet Order: Article 3-3, Item 53 |
| Soil Contamination Countermeasures Act | - | - |
| Fire Service Act | - | - |

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

16. Other information

The purpose of this Safety Data Sheet (SDS) is to provide information for safe handling. No warranties are made as to physical properties, hazard information, or any other information.

This Safety Data Sheet (SDS) is based on materials, information, and data available at the time of preparation. Its contents are not guaranteed for the future. All products have the potential for unknown hazards and should be handled with care.

For special handling or use, such as in combination with other chemicals, implement precautions appropriate to the conditions of use.

This Safety Data Sheet (SDS) has been prepared in accordance with the laws and regulations of Japan. When using the product outside of Japan, please confirm the laws and regulations to be observed with the appropriate authorities or business operators in the country or region where the product will be used.
