

Safety Data Sheet

Prepared January 12, 2012
Revised March 20, 2023

1. Identification

Product name : SK-5M / SK85M

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 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	: 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	Mn	Cr	Ni	Cu
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	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Skin corrosion/irritation	Category 3	Classification not possible	Classification not possible	Classification not possible
Serious eye damage/irritation	Category 2B	Category 2	Classification not possible	Classification not possible
Respiratory sensitization	Classification not possible	Category 1A	Category 1	Classification not possible
Skin sensitization	Classification not possible	Category 1A	Category 1	Category 1A
Germ cell mutagenicity	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Carcinogenicity	Not classified	Classification not possible	Category 2	Classification not possible
Reproductive toxicity	Category 1B	Classification not possible	Classification not possible	Classification not possible

STOT - Single exposure	Category 1 (respiratory system)	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

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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

Industrial Safety and Health Act
Manganese and its compounds : 550
Chromium and its compounds : 142
Nickel and its compounds : 418
Copper and its compounds : 379
PRTR
Not applicable

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.
