# MATERIAL SAFETY DATA SHEET

(MATRIX)



# PRODUCT DESCRIPTION

MATERIAL IDENTIFICATION

SECTION 1.

**SECTION 2.** 

#### Our Grating and frame are functional, attractive and economical solution to exterior and interior drainage problem provides a dynamic and contemporary appearance to complement today's architectural spaces.

**MATERIAL USED** 

Stainless Steel - Grade 316

## MANUFACTURER'S NAME

SAKSHI INNOVATIONS PRIVATE LIMITED Gurudwara Somasar Road, P.O. Sahnewal, Village TIBBA, Distt. LUDHIANA-141 120 (INDIA)

# COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Composition CAS No. % Weight

7440-44-0

7440-47-3

7440-21-3

0.022

16.77

67.91 1.761

0.039

0.359

potentially hazardous fumes & dust. This dust or fumes may be harmful if inhaled.

Steel production sheet, coil do not pose a significant health hazardous. However when subjected to Welding, Burning, Sawing, Brazing & grinding etc. Potentially hazardous fumes or dust may be generated. Needs adequate exhaust ventilation

Not anticipated under normal circumstances. As such this material is not expected

adversely affect the central nervous system with symptoms resembling

dermatitis (ACD). Fumes are respiratory irritants and may cause respiratory

reported in Laboratory animals from intratracheal ingestion of silicon dust. Silicon dust has little adverse effect on lungs and does not appear to produce significant organic disease or toxic effects when exposures are kept under the

If dust/fumes get in eyes, immediately flush with large amounts of running water

If dust gets on skin wash contaminated area with mild soap and water. Remove and wash contaminated clothing if rash or irritation persists, seek medical attention.

If inhalation of dust / fumes occurs, immediately remove victim from the adverse environment to fresh air and seek medical attention. If breathing has stopped,

: No special fire or explosion hazard. Promptly isolate the scene by removing all

Fire Fighters should wear appropriate protective equipment and Equipment of Fire Fighters self-contained breathing apparatus (SCBA) with afull face-piece

NIOSH / MSHA approved dust/mist/fume respirators should be used during

Safety glasses should always be worn when grinding or cutting. Face shields

Emissions from ventilation or work process equipment should be checked to

equipment will be necessary to reduce emissions to acceptable levels.

ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process

Under normal conditions of storage and use, hazardous reactions will Not Occur.

welding, burning and grinding operations, if applicable exposure

Inhalation of fumes from Welding or Burning, Dust from Grinding or Cutting.

| - | Iron       | <i>7</i> 439-89-6 |
|---|------------|-------------------|
| - | Manganese  | <i>7</i> 439-96-5 |
| - | Phosphorus | <i>77</i> 23-14-0 |

Silicon

Carbon

Chromium

|                    | Sulphur    |                   | 7704-34-9         |              | 0.0055          |               |            |
|--------------------|------------|-------------------|-------------------|--------------|-----------------|---------------|------------|
|                    | Nickel     |                   | 7440-02-0         |              | 10.24           |               |            |
|                    | Molybdenur | n                 | <i>7</i> 439-98-7 |              | 2.074           |               |            |
|                    | Aluminium  |                   | <i>7</i> 429-90-5 |              | 0.013           |               |            |
|                    | Cobalt     |                   | 7440-48-4         |              | 0.21            |               |            |
|                    | copper     |                   | 7440-50-8         |              | 0.403           |               |            |
|                    | Niobium    |                   | 7440-03-1         |              | 0.019           |               |            |
|                    | Titanium   |                   | <i>7</i> 440-32-6 |              | 0.0060          |               |            |
|                    | Vanadium   |                   | 7440-62-2         |              | 0.069           |               |            |
|                    | Tungsten   |                   | <i>7</i> 440-33-7 |              | 0.014           |               |            |
|                    | Tin        |                   | 7440-31-5         |              | 0.012           |               |            |
|                    | Arsenic    |                   | 7440-38-2         |              | 0.0075          |               |            |
|                    | Nitrogen   |                   | 7727-37-9         |              | 0.066           |               |            |
|                    |            |                   |                   |              |                 |               |            |
| SECTION 3. HAZARDS | IDENTIFIC  | ATION             |                   |              |                 |               |            |
| EMERGENCY OVERVIEW | ;          | Welding, brazing, | cutting, grir     | nding and mo | achining of thi | s material ma | y liberate |
|                    |            |                   |                   |              |                 |               |            |

Molten material may cause thermal burns.

& appropriate protective equipment for workers.

Fumes & dust may be irritating to respiratory system. Dust or particles may cause mechanical irritation.

Dust or particles may cause irritation due to abrasion.

#### **ROUTE OF EXPOSURE** Eye, Skin contact or Inhalation

EFFECT OF SHORT TERM (ACUTE) EXPOSURE

**FLAMMABILITY** 

INHALATION

**INGESTION** 

EYE CONTACT SKIN CONTACT

**SECTION 4.** 

**EYES** 

SKIN

INHALATION

PRIMARY ROUTE OF EXPOSURE

to be acutely toxic via ingestion. EFFECT OF LONG-TERM (CHRONIC) EXPOSURE Chronic inhalation of high concentrations of metallic fumes and dusts are

Not Applicable

**IRON OXIDE** Chronic inhalation of excessive concentrations of iron oxide fumes or dust may results in development of a benign pneumoconiosis, called siderosis, which is observable as an x-ray change.

Parkinson's disease.

Chronic exposure to high concentrations of manganese fumes and dusts may **MANGANESE** increase the incidence of bronchitis pneumonia and lung damage and may

associated with the following conditions.

The alleged health hazards associated with exposure to chromium are dependent **CHROMIUM** 

on its oxidation state. The metal form (chromium as it exists in this product) is of very low toxicity. The hexavalent form is very toxic. NICKEL Nickel is a common contact allergen & causes some sensitization, allergic contact

disease, skin contact can also cause an allergic skin rash, nickel and its compounds have been reported to cause cancer of the lungs and sinuses. Elementary silicon is an inert material which appears to lack the property of SILICON causing fibrosis in lung tissue. However, slight pulmonary lesions have been

TLV. Silicon may cause chronic respiratory e ffects. **MOLYBDENUM** Based on animal experiments, molybdenum and its compounds are highly toxic. Some evidence of liver dysfunction with hyperbilirubinemia have been reported in workmen chronically exposed . In addition signs of gout have been found in factory workers . The main features were joint pains in the knees, hands, feet, articular deformities, erythema, and edema of the joint areas.

for several minutes and seek Prompt medical attention.

### certified individuals should perform CPR. Keep affected person warm and at rest. If significant amounts of metal are ingested, seek medical attention. INGESTION

SPECIAL EXPOSURE HAZARDS

SPECIAL PROTECTIVE

SECTION 7.

SECTION 8.

EYE PROTECTION

TECHNICAL MEASURES

SECTION 9.

PHYSICAL STATE

SECTION 10.

SECTION 12.

SECTION 13.

METHODS OF DISPOSAL

GENERAL INFORMATION

SECTION 14.

SARA TITLE III HAZARD

**CATEGORIZATION** 

POSSIBILITY OF HAZARDOUS

**FINISH** 

STABILITY

RESPIRATORY PROTECTION

FIRST AIDS MEASURES

FIRE FIGHTING MEASURES SECTION 5. : In case of fire, use water spray (Fog), foam, dry chemical extinguisher or Co<sup>2</sup>. EXTINGUISHER MEDIA **SUITABLE** 

HAZARDOUS COMBUSTION Not applicable for solid form alloy. Toxic metal and metallic Oxide. **PRODUCTS** Fumes may be evolved from fires involving finely divided alloy

operated in positive pressure mode.

persons. Vicinity of the incident if there is a fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES Minimal problems with spills of this product would be expected to occur because of its solid form. Protective Equipment: Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis.

Providing good ventilation and/or local exhaust systems are used. HANDLING PRECAUTIONS STORAGE REQUIREMENTS

Store in a dry place.

Use original container.

limits are exceeded.

**EXPOSURE CONTROLS/ PERSONAL PROTECTIONS** 

If your process involves grinding or any other action that causes the release of dust or fumes, approved safety glasses or goggles should be worn

## should be worn when welding or burning. SKIN PROTECTION Skin covering working clothes, wear dust proof overalls if large quantity of

PACKAGING MATERIAL RECOMMENDED

**HANDELING & STORAGE** 

HYGIENE MEASURES Wash all exposed skin and face thoroughly after handling products before eating, smoking or using the lavatory and at the end of the working period. **ENVIRONMENTAL EXPOSURE CONTROLS** 

**PHYSICAL & CHEMICAL PROPERTIES** 

**REACTIVITY AND STABILITY** 

**ECHOLOGICAL INFORMATION** 

**DISPOSAL CONSIDERATIONS** 

Solid

MELTING TEMPERATURE *1375-1400* ℃ DENSITY (G/CM3) 7.750 HARDNESS (HV5) 205

White Powder Coated

The product is stable.

properly handled.

**REACTIONS** SECTION 11. TOXICOLOGICAL INFORMATION According to our experience and information the product has no harmful effects on health if properly handled.

# The product is practically insoluble in water. In views of its consistency and insolubility in water, no ecological Problems are to be expected if the product is

Dispose of in accordance with federal, provincial, state Or local regulations. TRANSPORT INFORMATION

### Material is not listed as a hazardous substance for any mode of transportation. SECTION 15. **REGULATORY INFORMATION**

Product (Dust and Fume) is categorized as an immediate (acute) health hazard and a delayed (chronic) Health hazard is defined by 40 CFR 370.

## No components are listed as extremely hazardous substances EXTREMELY HAZARDOUS

The information provided herein is Compiled by Sakshi to be accurate from sources believed to be reliable, but it is the responsibility of the user investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for its intended use. Sakshi makes no warranty, express or implied, concerning the product or the

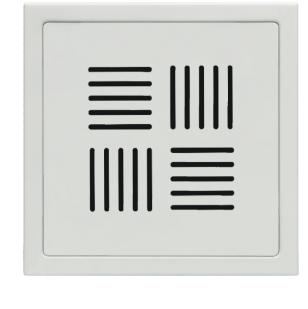
merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided.

SARA TITLE III SECTION 302

SUBSTANCES (EHSS): OTHER INFORMATION **SECTION 16.** 

Steel scrap should be recycled wherever possible

# MATERIAL SAFETY DATA SHEET (MATRIX)



# PRODUCT DESCRIPTION

MATERIAL IDENTIFICATION

SECTION 1.

SECTION 2.

#### Our Grating and frame are functional, attractive and economical solution to exterior and interior drainage problem provides a dynamic and contemporary appearance to complement today's architectural spaces.

**MATERIAL USED** 

Stainless Steel - Grade 304

## MANUFACTURER'S NAME

SAKSHI INNOVATIONS PRIVATE LIMITED Gurudwara Somasar Road, P.O. Sahnewal, Village TIBBA, Distt. LUDHIANA-141 120 (INDIA)

# **COMPOSITION / INFORMATION ON INGREDIENTS**

CAS No.

7439-96-5

% Weight

0.065

0.330

1.030

Welding, brazing, cutting, grinding and machining of this material may liberate

potentially hazardous fumes & dust. This dust or fumes may be harmful if inhaled.

Steel production sheet, coil do not pose a significant health hazardous. However when subjected to Welding, Burning, Sawing, Brazing & grinding etc. Potentially

Not anticipated under normal circumstances. As such this material is not expected

results in development of a benign pneumoconiosis, called siderosis, which is

increase the incidence of bronchitis pneumonia and lung damage and may

The alleged health hazards associated with exposure to chromium are dependent

on its oxidation state. The metal form (chromium as it exists in this product) is of

compounds have been reported to cause cancer of the lungs and sinuses. Elementary silicon is an inert material which appears to lack the property of

#### Carbon 7440-44-0 7440-21-3 Silicon Manganese

Chemical Composition

| ranganese          | 7407 70 0         | 1.000  |
|--------------------|-------------------|--------|
| Phosphorus         | 7723-14-0         | 0.041  |
| ■ Sulphur          | 7704-34-9         | 0.006  |
| Chromium           | 7440-47-3         | 18.250 |
| ■ Molybdenum       | 7439-98-7         | 0.240  |
| ■ Nickel           | 7440-02-0         | 8.240  |
| Aluminium          | <i>7</i> 429-90-5 | 0.0034 |
| Cobalt             | 7440-48-4         | 0.220  |
| Copper             | <i>7</i> 440-50-8 | 0.360  |
| Niobium            | 7440-03-1         | 0.0079 |
| <b>■</b> Titanium  | <i>7</i> 440-32-6 | 0.004  |
| ■ Venadium         | 7440-62-2         | 0.006  |
| Tungsten           | 7440-33-7         | 0.021  |
| <b>■</b> Tin       | 7440-31-5         | 0.008  |
| Arsenic            | <i>7</i> 440-38-2 | 0.003  |
| ■ Boron            | 7440-42-8         | 0.0007 |
| ■ Nitrogen         | 7727-37-9         | 0.024  |
| ■ Iron             | <i>7</i> 439-89-6 | 71.140 |
|                    |                   |        |
| RDS IDENTIFICATION |                   |        |

#### PRIMARY ROUTE OF EXPOSURE Inhalation of fumes from Welding or Burning, Dust from Grinding or Cutting.

HAZA

SECTION 3.

**FLAMMABILITY** 

INHALATION

EYE CONTACT

SKIN CONTACT

INGESTION

**CHROMIUM** 

SILICON

**SECTION 4.** 

**EYES** 

SKIN

INHALATION

INGESTION

**SUITABLE** 

PRODUCTS

SECTION 7.

EYE PROTECTION

HYGIENE MEASURES

TECHNICAL MEASURES

PHYSICAL STATE

DENSITY (G/CM3)

**SECTION 10.** 

STABILITY

**REACTIONS** 

SECTION 12.

METHODS OF DISPOSAL

GENERAL INFORMATION

SECTION 15.

SARA TITLE III HAZARD

EXTREMELY HAZARDOUS

MELTING TEMPERATURE

POSSIBILITY OF HAZARDOUS

HANDLING PRECAUTIONS

STORAGE REQUIREMENTS

PACKAGING MATERIAL RECOMMENDED

**ENVIRONMENTAL EXPOSURE CONTROLS** 

**SECTION 5.** 

EXTINGUISHER MEDIA

SPECIAL EXPOSURE HAZARDS

**EMERGENCY OVERVIEW** 

**ROUTE OF EXPOSURE** 

hazardous fumes or dust may be generated. Needs adequate exhaust ventilation & appropriate protective equipment for workers. EFFECT OF SHORT TERM (ACUTE) EXPOSURE

Eye, Skin contact or Inhalation

Not Applicable

Molten material may cause thermal burns.

Fumes & dust may be irritating to respiratory system.

Dust or particles may cause irritation due to abrasion.

Dust or particles may cause mechanical irritation.

to be acutely toxic via ingestion. EFFECT OF LONG-TERM (CHRONIC) EXPOSURE Chronic inhalation of high concentrations of metallic fumes and dusts are

associated with the following conditions. Chronic inhalation of excessive concentrations of iron oxide fumes or dust may **IRON OXIDE** 

observable as an x-ray change. **MANGANESE** Chronic exposure to high concentrations of manganese fumes and dusts may

FIRST AIDS MEASURES

FIRE FIGHTING MEASURES

SECTION 6. ACCIDENTAL RELEASE MEASURES

**HANDELING & STORAGE** 

adversely affect the central nervous system with symptoms resembling Parkinson's disease.

very low toxicity. The hexavalent form is very toxic. **NICKEL** Nickel is a common contact allergen & causes some sensitization, allergic contact dermatitis (ACD). Fumes are respiratory irritants and may cause respiratory disease, skin contact can also cause an allergic skin rash, nickel and its

causing fibrosis in lung tissue. However, slight pulmonary lesions have been reported in Laboratory animals from intratracheal ingestion of silicon dust. Silicon dust has little adverse effect on lungs and does not appear to produce significant organic disease or toxic effects when exposures are kept under the TLV. Silicon may cause chronic respiratory effects.

> If dust/fumes get in eyes, immediately flush with large amounts of running water for several minutes and seek Prompt medical attention. If dust gets on skin wash contaminated area with mild soap and water. Remove and wash contaminated clothing if rash or irritation persists, seek medical attention.

If inhalation of dust / fumes occurs, immediately remove victim from the adverse

environment to fresh air and seek medical attention. If breathing has stopped, certified individuals should perform CPR. Keep affected person warm and at rest.

In case of fire, use water spray (Fog), foam, dry chemical extinguisher or Co<sup>2</sup>.

No special fire or explosion hazard. Promptly isolate the scene by removing all

If significant amounts of metal are ingested, seek medical attention.

Fumes may be evolved from fires involving finely divided alloy

Providing good ventilation and/or local exhaust systems are used.

welding, burning and grinding operations, if applicable exposure

Safety glasses should always be worn when grinding or cutting. Face shields

Wash all exposed skin and face thoroughly after handling products before eating,

Emissions from ventilation or work process equipment should be checked to

Under normal conditions of storage and use, hazardous reactions will Not Occur.

The product is practically insoluble in water. In views of its consistency and insolubility in water, no ecological Problems are to be expected if the product is

Dispose of in accordance with federal, provincial, state Or local regulations.

smoking or using the lavatory and at the end of the working period.

persons. Vicinity of the incident if there is a fire. HAZARDOUS COMBUSTION Not applicable for solid form alloy. Toxic metal and metallic Oxide.

SPECIAL PROTECTIVE Fire Fighters should wear appropriate protective equipment and Equipment of Fire Fighters self-contained breathing apparatus (SCBA) with afull face-piece operated in positive pressure mode.

Minimal problems with spills of this product would be expected to occur because of its solid form. Protective Equipment: Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis.

If your process involves grinding or any other action that causes the release of dust or fumes, approved safety glasses or goggles should be worn

Store in a dry place.

Use original container.

limits are exceeded.

**EXPOSURE CONTROLS/ PERSONAL PROTECTIONS** SECTION 8. RESPIRATORY PROTECTION NIOSH / MSHA approved dust/mist/fume respirators should be used during

should be worn when welding or burning.

SKIN PROTECTION Skin covering working clothes, wear dust proof overalls if large quantity of dust is generated.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Solid

7.750

1400-1450 °C

ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

HARDNESS (HV5) **FINISH** Powder Coated

The product is stable.

According to our experience and information the product has no harmful effects on health if properly handled.

**ECHOLOGICAL INFORMATION** 

**REACTIVITY AND STABILITY** 

SECTION 13. **DISPOSAL CONSIDERATIONS** 

Steel scrap should be recycled wherever possible

properly handled.

### TRANSPORT INFORMATION SECTION 14. Material is not listed as a hazardous substance for any mode of transportation.

**REGULATORY INFORMATION** Product (Dust and Fume) is categorized as an immediate (acute) health hazard and a delayed (chronic) Health hazard is defined by 40 CFR 370.

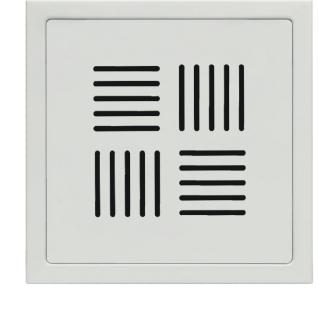
### **CATEGORIZATION** SARA TITLE III SECTION 302 No components are listed as extremely hazardous substances

SUBSTANCES (EHSS): OTHER INFORMATION **SECTION 16.** 

The information provided herein is Compiled by Sakshi to be accurate from sources believed to be reliable, but it is the responsibility of the user investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for its intended use. Sakshi makes no warranty, express or implied, concerning the product or the merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided.

# MATERIAL SAFETY DATA SHEET

(MATRIX)



## PRODUCT DESCRIPTION

**SECTION 1.** 

**SECTION 2.** 

SECTION 3.

**FLAMMABILITY** 

INHALATION

**MANGANESE** 

**CHROMIUM** 

SECTION 4.

**EYES** 

SKIN

INHALATION

INGESTION

**SUITABLE** 

**EXTINGUISHER MEDIA** 

SPECIAL PROTECTIVE

SPECIAL EXPOSURE HAZARDS

**EMERGENCY OVERVIEW** 

**ROUTE OF EXPOSURE** 

MATERIAL IDENTIFICATION

# Our Grating and frame are functional, attractive and economical solution to exterior and interior drainage problem provides

a dynamic and contemporary appearance to complement today's architectural spaces. **MATERIAL USED** 

Stainless Steel - Grade 430

## MANUFACTURER'S NAME

SAKSHI INNOVATIONS PRIVATE LIMITED

# Gurudwara Somasar Road, P.O. Sahnewal, Village TIBBA, Distt. LUDHIANA-141 120 (INDIA)

**COMPOSITION / INFORMATION ON INGREDIENTS** 

CAS No.

7440-44-0

% Weight

0.072

16.33

#### Chromium 7440-47-3

Chemical Composition

Carbon

| <b>■</b> Iron     | 7439-89-6         | 82.21  |
|-------------------|-------------------|--------|
| Manganese         | <i>7</i> 439-96-5 | 0.616  |
| Phosphorus        | 7723-14-0         | 0.033  |
| Silicon           | 7440-21-3         | 0.315  |
| <b>■</b> Sulphur  | 7704-34-9         | 0.0066 |
| ■ Nickel          | 7440-02-0         | 0.171  |
| Molybdenum        | <i>7</i> 439-98-7 | 0.020  |
| Aluminium         | <i>7</i> 429-90-5 | 0.036  |
| Cobalt            | 7440-48-4         | 0.031  |
| Copper            | 7440-50-8         | 0.082  |
| Niobium           | 7440-03-1         | 0.0069 |
| <b>■</b> Titanium | 7440-32-6         | 0.0039 |
| ■ Vanadium        | 7440-62-2         | 0.031  |
| <b>■</b> Tin      | 7440-31-5         | 0.0055 |
| Arsenic           | 7440-38-2         | 0.0021 |
| ■ Nitrogen        | 7727-37-9         | 0.028  |
|                   |                   |        |

#### PRIMARY ROUTE OF EXPOSURE Inhalation of fumes from Welding or Burning, Dust from Grinding or Cutting.

HAZARDS IDENTIFICATION

& appropriate protective equipment for workers. EFFECT OF SHORT TERM (ACUTE) EXPOSURE

Not Applicable

EYE CONTACT Dust or particles may cause mechanical irritation. SKIN CONTACT Dust or particles may cause irritation due to abrasion. **INGESTION** Not anticipated under normal circumstances. As such this material is not expected to be acutely toxic via ingestion.

Eye, Skin contact or Inhalation

Molten material may cause thermal burns.

Fumes & dust may be irritating to respiratory system.

IRON OXIDE Chronic inhalation of excessive concentrations of iron oxide fumes or dust may results in development of a benign pneumoconiosis, called siderosis, which is observable as an x-ray change.

associated with the following conditions.

adversely affect the central nervous system with symptoms resembling

EFFECT OF LONG-TERM (CHRONIC) EXPOSURE

Parkinson's disease. The alleged health hazards associated with exposure to chromium are dependent on its oxidation state. The metal form (chromium as it exists in this product) is of very low toxicity. The hexavalent form is very toxic.

causing fibrosis in lung tissue. However, slight pulmonary lesions have been reported in Laboratory animals from intratracheal ingestion of silicon dust. Silicon dust has little adverse effect on lungs and does not appear to produce significant organic disease or toxic effects when exposures are kept under the

and wash contaminated clothing if rash or irritation persists, seek medical attention.

If inhalation of dust / fumes occurs, immediately remove victim from the adverse

In case of fire, use water spray (Fog), foam, dry chemical extinguisher or Co<sup>2</sup>.

No special fire or explosion hazard. Promptly isolate the scene by removing all

Fire Fighters should wear appropriate protective equipment and Equipment of

Fire Fighters self-contained breathing apparatus (SCBA) with afull face-piece

NIOSH / MSHA approved dust/mist/fume respirators should be used during

Wash all exposed skin and face thoroughly after handling products before eating,

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process

smoking or using the lavatory and at the end of the working period.

welding, burning and grinding operations, if applicable exposure

If significant amounts of metal are ingested, seek medical attention.

Chronic exposure to high concentrations of manganese fumes and dusts may increase the incidence of bronchitis pneumonia and lung damage and may

Chronic inhalation of high concentrations of metallic fumes and dusts are

Welding, brazing, cutting, grinding and machining of this material may liberate potentially hazardous fumes & dust. This dust or fumes may be harmful if inhaled.

Steel production sheet, coil do not pose a significant health hazardous. However when subjected to Welding, Burning, Sawing, Brazing & grinding etc. Potentially hazardous fumes or dust may be generated. Needs adequate exhaust ventilation

NICKEL Nickel is a common contact allergen & causes some sensitization, allergic contact dermatitis (ACD). Fumes are respiratory irritants and may cause respiratory disease, skin contact can also cause an allergic skin rash, nickel and its compounds have been reported to cause cancer of the lungs and sinuses. Elementary silicon is an inert material which appears to lack the property of SILICON

> FIRST AIDS MEASURES : If dust/fumes get in eyes, immediately flush with large amounts of running water for several minutes and seek Prompt medical attention. If dust gets on skin wash contaminated area with mild soap and water. Remove

TLV. Silicon may cause chronic respiratory effects.

# environment to fresh air and seek medical attention. If breathing has stopped, certified individuals should perform CPR. Keep affected person warm and at rest.

SECTION 5. FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION Not applicable for solid form alloy. Toxic metal and metallic Oxide. **PRODUCTS** Fumes may be evolved from fires involving finely divided alloy

operated in positive pressure mode.

If your process involves grinding or any other action that causes the release of dust or fumes, approved safety glasses or goggles should be worn

persons. Vicinity of the incident if there is a fire.

Minimal problems with spills of this product would be expected to occur because of its solid form. Protective Equipment: Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis.

#### SECTION 7. **HANDELING & STORAGE** HANDLING PRECAUTIONS Providing good ventilation and/or local exhaust systems are used.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Store in a dry place. STORAGE REQUIREMENTS PACKAGING MATERIAL RECOMMENDED Use original container. SECTION 8. **EXPOSURE CONTROLS/ PERSONAL PROTECTIONS** 

limits are exceeded.

dust is generated.

Solid

7.750

175

1425-1510 °C

White Powder Coated

The product is stable.

on health if properly handled.

properly handled.

### Safety glasses should always be worn when grinding or cutting. Face shields should be worn when welding or burning. SKIN PROTECTION Skin covering working clothes, wear dust proof overalls if large quantity of

ENVIRONMENTAL EXPOSURE CONTROLS

RESPIRATORY PROTECTION

EYE PROTECTION

HYGIENE MEASURES

TECHNICAL MEASURES

PHYSICAL STATE

DENSITY (G/CM3)

HARDNESS (HV5)

**FINISH** 

STABILITY

**REACTIONS** 

SECTION 13.

SECTION 15.

**EXTREMELY HAZARDOUS** SUBSTANCES (EHSS):

SECTION 16.

METHODS OF DISPOSAL

GENERAL INFORMATION

**MELTING TEMPERATURE** 

POSSIBILITY OF HAZARDOUS

equipment will be necessary to reduce emissions to acceptable levels. **PHYSICAL & CHEMICAL PROPERTIES** SECTION 9.

**REACTIVITY AND STABILITY** SECTION 10.

SECTION 11. TOXICOLOGICAL INFORMATION

# **ECHOLOGICAL INFORMATION SECTION 12.**

**DISPOSAL CONSIDERATIONS** Steel scrap should be recycled wherever possible

Dispose of in accordance with federal, provincial, state Or local regulations.

The product is practically insoluble in water. In views of its consistency and insolubility in water, no ecological Problems are to be expected if the product is

Under normal conditions of storage and use, hazardous reactions will Not Occur.

According to our experience and information the product has no harmful effects

# TRANSPORT INFORMATION **SECTION 14.**

Material is not listed as a hazardous substance for any mode of transportation. **REGULATORY INFORMATION** 

#### SARA TITLE III HAZARD Product (Dust and Fume) is categorized as an immediate (acute) health hazard and a delayed (chronic) Health hazard is defined by 40 CFR 370. **CATEGORIZATION**

SARA TITLE III SECTION 302 No components are listed as extremely hazardous substances

OTHER INFORMATION

The information provided herein is Compiled by Sakshi to be accurate from sources believed to be reliable, but it is the responsibility of the user investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for its intended use. Sakshi makes no warranty, express or implied, concerning the product or the merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided.