# MATERIAL SAFETY DATA SHEET
(ARCH)

## SECTION 1. MATERIAL IDENTIFICATION

**PRODUCT DESCRIPTION**

*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)*

## SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Composition | CAS No. | % Weight |
|---|---|---|
| Carbon | 7440-44-0 | 0.022 |
| Chromium | 7440-47-3 | 16.77 |
| Iron | 7439-89-6 | 67.91 |
| Manganese | 7439-96-5 | 1.761 |
| Phosphorus | 7723-14-0 | 0.039 |
| Silicon | 7440-21-3 | 0.359 |
| Sulphur | 7704-34-9 | 0.0055 |
| Nickel | 7440-02-0 | 10.24 |
| Molybdenum | 7439-98-7 | 2.074 |
| Aluminium | 7429-90-5 | 0.013 |
| Cobalt | 7440-48-4 | 0.21 |
| copper | 7440-50-8 | 0.403 |
| Niobium | 7440-03-1 | 0.019 |
| Titanium | 7440-32-6 | 0.0060 |
| Vanadium | 7440-62-2 | 0.069 |
| Tungsten | 7440-33-7 | 0.014 |
| Tin | 7440-31-5 | 0.012 |
| Arsenic | 7440-38-2 | 0.0075 |
| Nitrogen | 7727-37-9 | 0.066 |

## SECTION 3. HAZARDS IDENTIFICATION

*EMERGENCY OVERVIEW* : *Welding, brazing, cutting, grinding and machining of this material may liberate potentially hazardous fumes & dust. This dust or fumes may be harmful if inhaled. Molten material may cause thermal burns.*

*FLAMMABILITY* : *Not Applicable*

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

*ROUTE OF EXPOSURE* : *Eye, Skin contact or inhalation*
*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 & appropriate protective equipment for workers.*

*EFFECT OF SHORT TERM (ACUTE) EXPOSURE*

*INHALATION* : *Fumes & dust may be irritating to respiratory system.*

*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.*

*EFFECT OF LONG-TERM (CHRONIC) EXPOSURE*

: *Chronic inhalation of high concentrations of metallic fumes and dusts are associated with the following conditions.*

*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.*

*MANGANESE* : *Chronic exposure to high concentrations of manganese fumes and dusts may increase the incidence of bronchitis pneumonia and lung damage and may adversely affect the central nervous system with symptoms resembling Parkinson's disease.*

*CHROMIUM* : *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.*

*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.*

*SILICON* : *Elementary silicon is an inert material which appears to lack the property of 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.*

*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.*

## SECTION 4. FIRST AIDS MEASURES

*EYES* : *If dust/fumes get in eyes, immediately flush with large amounts of running water for several minutes and seek Prompt medical attention.*

*SKIN* : *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.*

*INHALATION* : *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.*

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

## SECTION 5. FIRE FIGHTING MEASURES

*EXTINGUISHER MEDIA SUITABLE* : *In case of fire, use water spray (Fog), foam, dry chemical extinguisher or $Co^2$.*

*SPECIAL EXPOSURE HAZARDS* : *No special fire or explosion hazard. Promptly isolate the scene by removing all persons. Vicinity of the incident if there is a fire.*

*HAZARDOUS COMBUSTION* : *Not applicable for solid form alloy. Toxic metal and metallic Oxide.*

*PRODUCTS* : *Fumes may be evolved from fires involving finely divided alloy*

*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.*

## 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. 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*

## SECTION 7. HANDELING & STORAGE

*HANDLING PRECAUTIONS* : *Providing good ventilation and/or local exhaust systems are used.*

*STORAGE REQUIREMENTS* : *Store in a dry place.*

*PACKAGING MATERIAL RECOMMENDED* : *Use original container.*

## SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTIONS

*RESPIRATORY PROTECTION* : *NIOSH / MSHA approved dust/mist/fume respirators should be used during welding, burning and grinding operations, if applicable exposure limits are exceeded.*

*EYE PROTECTION* : *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 dust is generated.*

*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*

*TECHNICAL MEASURES* : *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 equipment will be necessary to reduce emissions to acceptable levels.*

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

*PHYSICAL STATE* : *Solid*

*MELTING TEMPERATURE* : *1375-1400 °C*

*DENSITY (G/CM3)* : *7.750*

*HARDNESS (HVS)* : *205*

*FINISH* : *Black Powder Coated*

## SECTION 10. REACTIVITY AND STABILITY

*STABILITY* : *The product is stable.*

*POSSIBILITY OF HAZARDOUS REACTIONS* : *Under normal conditions of storage and use, hazardous reactions will Not Occur.*

## SECTION 11. TOXICOLOGICAL INFORMATION

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

## SECTION 12. ECHOLOGICAL INFORMATION

*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 properly handled.*

## SECTION 13. DISPOSAL CONSIDERATIONS

*METHODS OF DISPOSAL* : *Steel scrap should be recycled wherever possible*

*GENERAL INFORMATION* : *Dispose of in accordance with federal, provincial, state Or local regulations.*

## SECTION 14. TRANSPORT INFORMATION

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

## SECTION 15. REGULATORY INFORMATION

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

*SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHSS):* : *No components are listed as extremely hazardous substances*

## SECTION 16. 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.*

# MATERIAL SAFETY DATA SHEET
(ARCH)

## SECTION 1. MATERIAL IDENTIFICATION

### PRODUCT DESCRIPTION

*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)*

## SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Composition | CAS No. | % Weight |
|---|---|---|
| Carbon | 7440-44-0 | 0.065 |
| Silicon | 7440-21-3 | 0.330 |
| Manganese | 7439-96-5 | 1.030 |
| 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 | 7429-90-5 | 0.0034 |
| Cobalt | 7440-48-4 | 0.220 |
| Copper | 7440-50-8 | 0.360 |
| Niobium | 7440-03-1 | 0.0079 |
| Titanium | 7440-32-6 | 0.004 |
| Venadium | 7440-62-2 | 0.006 |
| Tungsten | 7440-33-7 | 0.021 |
| Tin | 7440-31-5 | 0.008 |
| Arsenic | 7440-38-2 | 0.003 |
| Boron | 7440-42-8 | 0.0007 |
| Nitrogen | 7727-37-9 | 0.024 |
| Iron | 7439-89-6 | 71.140 |

## SECTION 3. HAZARDS IDENTIFICATION

*EMERGENCY OVERVIEW* : *Welding, brazing, cutting, grinding and machining of this material may liberate potentially hazardous fumes & dust. This dust or fumes may be harmful if inhaled. Molten material may cause thermal burns.*

*FLAMMABILITY* : *Not Applicable*

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

*ROUTE OF EXPOSURE* : *Eye, Skin contact or Inhalation*
*Steel production sheet, cail 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 & appropriate protective equipment for workers.*

*EFFECT OF SHORT TERM (ACUTE) EXPOSURE*

*INHALATION* : *Fumes & dust may be irritating to respiratory system.*

*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.*

*EFFECT OF LONG-TERM (CHRONIC) EXPOSURE*

: *Chronic inhalation of high concentrations of metallic fumes and dusts are associated with the following conditions.*

*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.*

*MANGANESE* : *Chronic exposure to high concentrations of manganese fumes and dusts may increase the incidence of bronchitis pneumonia and lung damage and may adversely affect the central nervous system with symptoms resembling Parkinson's disease.*

*CHROMIUM* : *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.*

*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.*

*SILICON* : *Elementary silicon is an inert material which appears to lack the property of 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.*

## SECTION 4. FIRST AIDS MEASURES

*EYES* : *If dust/fumes get in eyes, immediately flush with large amounts of running water for several minutes and seek Prompt medical attention.*

*SKIN* : *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.*

*INHALATION* : *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.*

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

## SECTION 5. FIRE FIGHTING MEASURES

*EXTINGUISHER MEDIA SUITABLE* : *In case of fire, use water spray (Fog), foam, dry chemical extinguisher or Co².*

*SPECIAL EXPOSURE HAZARDS* : *No special fire or explosion hazard. Promptly isolate the scene by removing all persons. Vicinity of the incident if there is a fire.*

*HAZARDOUS COMBUSTION* : *Not applicable for solid form alloy. Toxic metal and metallic Oxide.*

*PRODUCTS* : *Fumes may be evolved from fires involving finely divided alloy*

*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.*

## 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.*
*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*

## SECTION 7. HANDELING & STORAGE

*HANDLING PRECAUTIONS* : *Providing good ventilation and/or local exhaust systems are used.*

*STORAGE REQUIREMENTS* : *Store in a dry place.*

*PACKAGING MATERIAL RECOMMENDED* : *Use original container.*

## SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTIONS

*RESPIRATORY PROTECTION* : *NIOSH / MSHA approved dust/mist/fume respirators should be used during welding, burning and grinding operations, if applicable exposure limits are exceeded.*

*EYE PROTECTION* : *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 dust is generated.*

*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*

*TECHNICAL MEASURES* : *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 equipment will be necessary to reduce emissions to acceptable levels.*

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

*PHYSICAL STATE* : *Solid*
*COLOUR* : *Black Matte*
*MELTING TEMPERATURE* : *1400-1450 °C*
*DENSITY (G/CM3)* : *7.750*
*HARDNESS (HVS)* : *220*
*FINISH* : *Powder Coated*

## SECTION 10. REACTIVITY AND STABILITY

*STABILITY* : *The product is stable.*

*POSSIBILITY OF HAZARDOUS REACTIONS* : *Under normal conditions of storage and use, hazardous reactions will Not Occur.*

## SECTION 11. TOXICOLOGICAL INFORMATION

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

## SECTION 12. ECHOLOGICAL INFORMATION

*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 properly handled.*

## SECTION 13. DISPOSAL CONSIDERATIONS

*METHODS OF DISPOSAL* : *Steel scrap should be recycled wherever possible*

*GENERAL INFORMATION* : *Dispose of in accordance with federal, provincial, state Or local regulations.*

## SECTION 14. TRANSPORT INFORMATION

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

## SECTION 15. REGULATORY INFORMATION

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

*SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHSS):* : *No components are listed as extremely hazardous substances*

## SECTION 16. OTHER INFORMATION

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# MATERIAL SAFETY DATA SHEET
(ARCH)

## SECTION 1. MATERIAL IDENTIFICATION

### PRODUCT DESCRIPTION

*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

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

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| Chemical Composition | CAS No. | % Weight |
|---|---|---|
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| Chromium | 7440-47-3 | 16.33 |
| Iron | 7439-89-6 | 82.21 |
| Manganese | 7439-96-5 | 0.616 |
| Phosphorus | 7723-14-0 | 0.033 |
| Silicon | 7440-21-3 | 0.315 |
| Sulphur | 7704-34-9 | 0.0066 |
| Nickel | 7440-02-0 | 0.171 |
| Molybdenum | 7439-98-7 | 0.020 |
| Aluminium | 7429-90-5 | 0.036 |
| Cobalt | 7440-48-4 | 0.031 |
| Copper | 7440-50-8 | 0.082 |
| Niobium | 7440-03-1 | 0.0069 |
| Titanium | 7440-32-6 | 0.0039 |
| Vanadium | 7440-62-2 | 0.031 |
| Tin | 7440-31-5 | 0.0055 |
| Arsenic | 7440-38-2 | 0.0021 |
| Nitrogen | 7727-37-9 | 0.028 |

## SECTION 3. HAZARDS IDENTIFICATION

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*FLAMMABILITY* : *Not Applicable*

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

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## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

*PHYSICAL STATE* : *Solid*
*MELTING TEMPERATURE* : *1400-1450 °C*
*DENSITY (G/CM3)* : *7.750*
*HARDNESS (HVS)* : *220*
*FINISH* : *Black Powder Coated*

## SECTION 10. REACTIVITY AND STABILITY

*STABILITY* : *The product is stable.*

*POSSIBILITY OF HAZARDOUS REACTIONS* : *Under normal conditions of storage and use, hazardous reactions will Not Occur.*

## SECTION 11. TOXICOLOGICAL INFORMATION

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

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## SECTION 13. DISPOSAL CONSIDERATIONS

*METHODS OF DISPOSAL* : *Steel scrap should be recycled wherever possible*

*GENERAL INFORMATION* : *Dispose of in accordance with federal, provincial, state Or local regulations.*

## SECTION 14. TRANSPORT INFORMATION

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

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

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