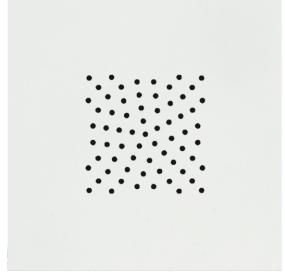
MATERIAL SAFETY DATA SHEET

(GLAZE INFINIT)



PRODUCT DESCRIPTION

MATERIAL IDENTIFICATION

SECTION 1.

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)

Carbon

Chromium

Iron

Manganese

Phosphorus

Silicon

Sulphur

Nickel

Molybdenum

Aluminium

Cobalt

copper

Niobium

Titanium

Vanadium

Tungsten Tin

Arsenic

Nitrogen

HAZARDS IDENTIFICATION

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS Chemical Composition CAS No. % Weight

7440-44-0

7440-47-3

*7*439-89-6

7439-96-5

7723-14-0

7440-21-3

7704-34-9

7440-02-0

7439-98-7

7429-90-5

7440-48-4

7440-50-8

7440-03-1

7440-32-6

7440-62-2

7440-33-7

7440-31-5

7440-38-2

7727-37-9

Molten material may cause thermal burns.

Dust or particles may cause mechanical irritation.

Dust or particles may cause irritation due to abrasion.

0.022

16.77

67.91

1.761

0.039

0.359

0.0055

10.24

2.074

0.013

0.21

0.403

0.019

0.0060

0.069

0.014

0.012

0.0075

0.066

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

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

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

Chronic inhalation of high concentrations of metallic fumes and dusts are

adversely affect the central nervous system with symptoms resembling

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

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

Based on animal experiments, molybdenum and its compounds are highly toxic.

: 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,

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

Not applicable for solid form alloy. Toxic metal and metallic Oxide.

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

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

Skin covering working clothes, wear dust proof overalls if large quantity of

Emissions from ventilation or work process equipment should be checked to

equipment will be necessary to reduce emissions to acceptable levels.

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

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

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

insolubility in water, no ecological Problems are to be expected if the product is

Fumes may be evolved from fires involving finely divided alloy

SECTION 3.

FLAMMABILITY

INHALATION EYE CONTACT

INGESTION

CHROMIUM

SILICON

MOLYBDENUM

SECTION 4.

EYES

SKIN

INHALATION

SECTION 5.

PRODUCTS

SECTION 7.

SECTION 8.

EYE PROTECTION

SKIN PROTECTION

HYGIENE MEASURES

TECHNICAL MEASURES

SECTION 9.

HARDNESS (HV5)

SECTION 10.

SECTION 11.

SECTION 13.

METHODS OF DISPOSAL

GENERAL INFORMATION

SECTION 14.

SARA TITLE III HAZARD

CATEGORIZATION

SECTION 16.

FINISH

HANDLING PRECAUTIONS

STORAGE REQUIREMENTS

PACKAGING MATERIAL RECOMMENDED

EXTINGUISHER MEDIA

HAZARDOUS COMBUSTION

SKIN CONTACT

EMERGENCY OVERVIEW

ROUTE OF EXPOSURE

PRIMARY ROUTE OF EXPOSURE

EFFECT OF LONG-TERM (CHRONIC) EXPOSURE

	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.

to be acutely toxic via ingestion.

Eye, Skin contact or Inhalation

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

Parkinson's disease.

associated with the following conditions.

very low toxicity. The hexavalent form is very toxic. Nickel is a common contact allergen & causes some sensitization, allergic contact NICKEL 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.

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.

TLV. Silicon may cause chronic respiratory e ffects.

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

FIRST AIDS MEASURES

FIRE FIGHTING MEASURES

SECTION 6. ACCIDENTAL RELEASE MEASURES

HANDELING & STORAGE

SUITABLE : No special fire or explosion hazard. Promptly isolate the scene by removing all SPECIAL EXPOSURE HAZARDS

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

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.

glasses or goggles should be worn

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

Store in a dry place.

Use original container.

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.

should be worn when welding or burning.

smoking or using the lavatory and at the end of the working period. **ENVIRONMENTAL EXPOSURE CONTROLS**

PHYSICAL & CHEMICAL PROPERTIES

REACTIVITY AND STABILITY

TOXICOLOGICAL INFORMATION

205

PHYSICAL STATE Solid MELTING TEMPERATURE *1375-1400* ℃ DENSITY (G/CM3) 7.750

STABILITY The product is stable. POSSIBILITY OF HAZARDOUS Under normal conditions of storage and use, hazardous reactions will Not Occur. **REACTIONS**

properly handled.

on health if properly handled.

White Powder Coated

ECHOLOGICAL INFORMATION SECTION 12. The product is practically insoluble in water. In views of its consistency and

DISPOSAL CONSIDERATIONS

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

Steel scrap should be recycled wherever possible

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.

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

SUBSTANCES (EHSS): 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

(GLAZE INFINIT)



PRODUCT DESCRIPTION

MATERIAL IDENTIFICATION

SECTION 1.

SECTION 2.

SECTION 3.

FLAMMABILITY

SKIN CONTACT

INGESTION

MANGANESE

SILICON

SECTION 4.

SECTION 5.

SUITABLE

PRODUCTS

SPECIAL PROTECTIVE

HANDLING PRECAUTIONS

STORAGE REQUIREMENTS

RESPIRATORY PROTECTION

SECTION 8.

SKIN PROTECTION

TECHNICAL MEASURES

MELTING TEMPERATURE

POSSIBILITY OF HAZARDOUS

DENSITY (G/CM3)

HARDNESS (HV5)

FINISH

REACTIONS

SECTION 13.

SECTION 14.

SECTION 15.

METHODS OF DISPOSAL

PACKAGING MATERIAL RECOMMENDED

ENVIRONMENTAL EXPOSURE CONTROLS

EXTINGUISHER MEDIA

EYES

SKIN

EMERGENCY OVERVIEW

ROUTE OF EXPOSURE

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.

% Weight

0.065

0.330

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

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

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

Chronic exposure to high concentrations of manganese fumes and dusts may

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

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

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 Co².

Fire Fighters should wear appropriate protective equipment and Equipment of

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

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

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.

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

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

for several minutes and seek Prompt medical attention.

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

Chemical Composition

Manganese	<i>7</i> 439-96-5	1.030			
Phosphorus	7723-14-0	0.041			
Sulphur	7704-34-9	0.006			
Chromium	7440-47-3	18.250			
Molybdenum	<i>7</i> 439-98-7	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			
■ Titanium	<i>7</i> 440-32-6	0.004			
■ Venadium	7440-62-2	0.006			
Tungsten	7440-33-7	0.021			
■ 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			
ARDS IDENTIFICATION					

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

EFFECT OF SHORT TERM (ACUTE) EXPOSURE

HAZA

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

Not Applicable

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**

Molten material may cause thermal burns.

& appropriate protective equipment for workers.

Dust or particles may cause irritation due to abrasion.

Eye, Skin contact or Inhalation

increase the incidence of bronchitis pneumonia and lung damage and may

adversely affect the central nervous system with symptoms resembling Parkinson's disease. The alleged health hazards associated with exposure to chromium are dependent **CHROMIUM**

observable as an x-ray change.

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 is a common contact allergen & causes some sensitization, allergic contact **NICKEL** dermatitis (ACD). Fumes are respiratory irritants and may cause respiratory

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.

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,

FIRE FIGHTING MEASURES

SECTION 6. ACCIDENTAL RELEASE MEASURES

FIRST AIDS MEASURES

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

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.

Fire Fighters self-contained breathing apparatus (SCBA) with afull face-piece operated in positive pressure mode.

HANDELING & STORAGE SECTION 7.

Store in a dry place.

Use original container.

EXPOSURE CONTROLS/ PERSONAL PROTECTIONS

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

limits are exceeded. EYE PROTECTION Safety glasses should always be worn when grinding or cutting. Face shields

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,

should be worn when welding or burning.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES PHYSICAL STATE Solid

REACTIVITY AND STABILITY SECTION 10. STABILITY The product is stable.

1400-1450 °C

White Powder Coated

7.750

According to our experience and information the product has no harmful effects on health if properly handled. SECTION 12. **ECHOLOGICAL INFORMATION**

properly handled. DISPOSAL CONSIDERATIONS

Steel scrap should be recycled wherever possible

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

GENERAL INFORMATION 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.

SARA TITLE III HAZARD CATEGORIZATION and a delayed (chronic) Health hazard is defined by 40 CFR 370.

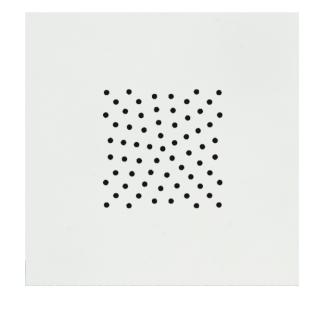
REGULATORY INFORMATION Product (Dust and Fume) is categorized as an immediate (acute) health hazard

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

(GLAZE INFINIT)



PRODUCT DESCRIPTION

SECTION 1.

SECTION 2.

SECTION 3.

FLAMMABILITY

INHALATION EYE CONTACT

MANGANESE

NICKEL

INHALATION

INGESTION

SUITABLE

PRODUCTS

SECTION 7.

SECTION 8.

SKIN PROTECTION

HYGIENE MEASURES

SECTION 9.

PHYSICAL STATE

DENSITY (G/CM3)

HARDNESS (HV5)

FINISH

REACTIONS

SECTION 12.

SECTION 13.

SECTION 15.

EXTREMELY HAZARDOUS

METHODS OF DISPOSAL

GENERAL INFORMATION

MELTING TEMPERATURE

POSSIBILITY OF HAZARDOUS

PACKAGING MATERIAL RECOMMENDED

EXTINGUISHER MEDIA

HAZARDOUS COMBUSTION

EMERGENCY OVERVIEW

PRIMARY 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

7440-47-3

% Weight

0.072

16.33

82.21

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

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

Chronic inhalation of high concentrations of metallic fumes and dusts are

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

Chronic exposure to high concentrations of manganese fumes and dusts may

Nickel is a common contact allergen & causes some sensitization, allergic contact

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 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 Co².

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

Not applicable for solid form alloy. Toxic metal and metallic Oxide.

Fumes may be evolved from fires involving finely divided alloy

when subjected to Welding, Burning, Sawing, Brazing & grinding etc. Potentially hazardous fumes or dust may be generated. Needs adequate exhaust ventilation

Chromium Iron 7439-89-6

Chemical Composition

Carbon

■ 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 7440-32-6 0.0039 ■ Arsenic 7440-38-2 0.0021 ■ Nitrogen 7727-37-9 0.028				
■ 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	_	Manganese	<i>7</i> 439-96-5	0.616
■ 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	_	Phosphorus	7723-14-0	0.033
 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 		Silicon	7440-21-3	0.315
■ 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	_	Sulphur	7704-34-9	0.0066
■ 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	_	Nickel	7440-02-0	0.171
■ 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	_	Molybdenum	7439-98-7	0.020
■ 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		Aluminium	7429-90-5	0.036
■ 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		Cobalt	7440-48-4	0.031
■ 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		Copper	7440-50-8	0.082
■ Vanadium 7440-62-2 0.031 ■ Tin 7440-31-5 0.0055 ■ Arsenic 7440-38-2 0.0021 ■ Nitrogen 7727-37-9 0.028	_	Niobium	7440-03-1	0.0069
 ■ Tin 7440-31-5 0.0055 ■ Arsenic 7440-38-2 0.0021 ■ Nitrogen 7727-37-9 0.028 	_	Titanium	7440-32-6	0.0039
■ Arsenic 7440-38-2 0.0021 ■ Nitrogen 7727-37-9 0.028	_	Vanadium	7440-62-2	0.031
■ Nitrogen 7727-37-9 0.028	_	Tin	<i>7</i> 440-31-5	0.0055
	_	Arsenic	7440-38-2	0.0021
HAZARDS IDENTIFICATION		Nitrogen	7727-37-9	0.028
HAZARDS IDENTIFICATION				
	HAZARDS	IDENTIFICATIO	N	

Molten material may cause thermal burns.

Fumes & dust may be irritating to respiratory system.

Dust or particles may cause mechanical irritation.

ROUTE OF EXPOSURE Eye, Skin contact or Inhalation Steel production sheet, coil do not pose a significant health hazardous. However

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

Not Applicable

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.

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

observable as an x-ray change.

increase the incidence of bronchitis pneumonia and lung damage and may 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 **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.

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

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. If dust gets on skin wash contaminated area with mild soap and water. Remove SKIN

TLV. Silicon may cause chronic respiratory effects.

SECTION 5. FIRE FIGHTING MEASURES

SECTION 6. ACCIDENTAL RELEASE MEASURES

HANDELING & STORAGE

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.

Fire Fighters should wear appropriate protective equipment and Equipment of SPECIAL PROTECTIVE 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

HANDLING PRECAUTIONS Providing good ventilation and/or local exhaust systems are used. Store in a dry place. STORAGE REQUIREMENTS

Use original container.

dust is generated.

EXPOSURE CONTROLS/ PERSONAL PROTECTIONS

glasses or goggles should be worn

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 covering working clothes, wear dust proof overalls if large quantity of

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

equipment will be necessary to reduce emissions to acceptable levels.

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

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.

ENVIRONMENTAL EXPOSURE CONTROLS TECHNICAL MEASURES Emissions from ventilation or work process equipment should be checked to

PHYSICAL & CHEMICAL PROPERTIES

Solid

7.750

175

1425-1510 °C

REACTIVITY AND STABILITY SECTION 10. STABILITY The product is stable.

White Powder Coated

properly handled.

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

ECHOLOGICAL INFORMATION

SECTION 11. TOXICOLOGICAL INFORMATION

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

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

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.