

1. Identification

Product identifier Painted Galvanized Steel

Other means of identification

Product identifier Galvanized Steel Products.

Synonyms Ceiling Grid, Roofing

Recommended use Exposed products.

Recommended restrictions Not intended for other uses.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Bailey Metal Products Limited

Address 1 Caldari Road
Concord, ON L4K3Z9
Canada

Telephone 800-668-2154

Website www.bmp-group.com

E-mail Not available.

Emergency phone number 3E Global Incident Response
1 866 519 4752 (Toll Free)
Access Code: 336250

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement This product is considered an article and does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Supplemental information None.

Other hazards None known.

3. Composition/information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	% (w/w)
Iron		7439-89-6	80 - 100
Zinc		7440-66-6	5 - 10
Aluminium		7429-90-5	1 - 5
Silicon		7440-21-3	1 - 5
Manganese		7439-96-5	0.1 - 1.5

Material name: Painted Galvanized Steel

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SDS CANADA

1 / 9

Chemical name	Common name and synonyms	CAS number	% (w/w)
Carbon		7440-44-0	0.1 - 1
Copper		7440-50-8	0.1 - 1
Nickel		7440-02-0	0.1 - 1
Vanadium		7440-62-2	0.1 - 1
Chromium		7440-47-3	≤ 0.5

This product is an article and not expected to release hazardous chemicals under normal conditions of use.

Composition comments Hazardous components are intrinsically bound within the matrix of the product and no anticipated release or exposure exists.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Not available.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	No unusual fire or explosion hazards noted.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Not available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	No special precautions are necessary beyond normal good hygiene practices.
Methods and materials for containment and cleaning up	Pick up mechanically; Send for recovery or disposal in suitable receptacles.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Minimise dust generation and accumulation. Do not breathe dust from this material. Cutting of this product should be done in a well-ventilated place, wearing appropriate personal protective equipment.
Conditions for safe storage, including any incompatibilities	Store in a well-ventilated place. Store in cool place.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	Inhalable fraction.
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Manganese (CAS 7439-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction.
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	5 mg/m3	Pyrophoric powder.
		10 mg/m3	Dust.
Carbon (CAS 7440-44-0)	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Total
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Manganese (CAS 7439-96-5)	TWA	0.2 mg/m3	
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	
Silicon (CAS 7440-21-3)	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Total

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Carbon (CAS 7440-44-0)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	Total
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Manganese (CAS 7439-96-5)	TWA	0.2 mg/m3	Total
		0.02 mg/m3	Respirable.
Nickel (CAS 7440-02-0)	TWA	0.05 mg/m3	
Silicon (CAS 7440-21-3)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	Inhalable fraction.
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

Components	Type	Value	Form
Manganese (CAS 7439-96-5)	TWA	0.2 mg/m3	Fume.
		0.1 mg/m3	Inhalable fraction.
Nickel (CAS 7440-02-0)	TWA	0.02 mg/m3	Respirable fraction.
		1.5 mg/m3	Inhalable fraction.

Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs Publication (New Brunswick Regulation 91-191)

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Manganese (CAS 7439-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction.
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Manganese (CAS 7439-96-5)	TWA	0.2 mg/m3	
		0.1 mg/m3	Inhalable fraction.
Nickel (CAS 7440-02-0)	TWA	0.02 mg/m3	Respirable fraction.
		1 mg/m3	Inhalable fraction.

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended

Components	Type	Value	Form
Carbon (CAS 7440-44-0)	TWA	10 mg/m3	Total dust.
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Manganese (CAS 7439-96-5)	TWA	0.2 mg/m3	Fume, total dust.
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable dust.
Silicon (CAS 7440-21-3)	TWA	10 mg/m3	Total dust.

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended

Components	Type	Value	Form
Aluminium (CAS 7429-90-5)	15 minute	20 mg/m3	Dust.
		10 mg/m3	Pyrophoric powder.
	8 hour	5 mg/m3	Pyrophoric powder.
		10 mg/m3	Dust.
Carbon (CAS 7440-44-0)	15 minute	6 mg/m3	Respirable fraction.

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended

Components	Type	Value	Form
Chromium (CAS 7440-47-3)	15 minute	20 mg/m3	Inhalable fraction.
		1.5 mg/m3	
Copper (CAS 7440-50-8)	8 hour	0.5 mg/m3	
	15 minute	3 mg/m3	Dust and mist.
	8 hour	0.6 mg/m3	Fume.
		1 mg/m3	Dust and mist.
Manganese (CAS 7439-96-5)	15 minute	0.2 mg/m3	Fume.
		0.6 mg/m3	
Nickel (CAS 7440-02-0)	8 hour	0.2 mg/m3	
	15 minute	3 mg/m3	Inhalable fraction.
	8 hour	1.5 mg/m3	Inhalable fraction.
Silicon (CAS 7440-21-3)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	

Biological limit values

ACGIH Biological Exposure Indices (BEI)

Components	Value	Determinant	Specimen	Sampling Time
Chromium (CAS 7440-47-3)	0.7 µg/l	Total chromium	Urine	*
Nickel (CAS 7440-02-0)	5 µg/l	Nickel	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Use protective gloves.

Other Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract. A dust mask is recommended.

Thermal hazards Not applicable.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Physical state	Solid.
Form	Coils, sheets, roll-formed parts, blanks.
Colour	Silver. Grey Metallic.
Odour	Odourless.
Melting point/freezing point	1530 °C (2786 °F)
Boiling point or initial boiling point and boiling range	2860 °C (5180 °F)
Flammability	Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit – upper (%)	Not available.
Flash point	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	Not available.
Density and/or relative density	
Relative density	7.6 - 7.8
Vapour density	Not available.
Particle characteristics	Not available.
Other information	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Minimise dust generation and accumulation.
Incompatible materials	Not available.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
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Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Carbon (CAS 7440-44-0)		
<u>Acute</u>		
Oral		
LD50	Rat	> 10000 mg/kg
Chromium (CAS 7440-47-3)		
<u>Acute</u>		
Oral		
LD50	Rat	> 2000 mg/kg

Components	Species	Test Results
Silicon (CAS 7440-21-3)		
<u>Acute</u>		
Oral		
LD50	Rat	3160 mg/kg
Vanadium (CAS 7440-62-2)		
<u>Acute</u>		
Oral		
LD50	Rat	> 2000 mg/kg
Zinc (CAS 7440-66-6)		
<u>Acute</u>		
Oral		
LD50	Rat	630 mg/kg
Skin corrosion/irritation	Not classified.	
Serious eye damage/eye irritation	Not classified.	
Respiratory or skin sensitisation		
Canada - Alberta OELs: Irritant		
Aluminium (CAS 7429-90-5)	Irritant	
Carbon (CAS 7440-44-0)	Irritant	
Chromium (CAS 7440-47-3)	Irritant	
Silicon (CAS 7440-21-3)	Irritant	
Respiratory sensitisation	Not a respiratory sensitiser.	
Skin sensitisation	This product is not expected to cause skin sensitisation.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classified.	
ACGIH Carcinogens		
Aluminium (CAS 7429-90-5)	A4 Not classifiable as a human carcinogen.	
Manganese (CAS 7439-96-5)	A4 Not classifiable as a human carcinogen.	
Nickel (CAS 7440-02-0)	A5 Not suspected as a human carcinogen.	
Canada - Alberta OELs: Carcinogen category		
Nickel (CAS 7440-02-0)	Confirmed human carcinogen.	
Canada - Manitoba OELs: carcinogenicity		
Aluminium (CAS 7429-90-5)	Not classifiable as a human carcinogen.	
Manganese (CAS 7439-96-5)	Not classifiable as a human carcinogen.	
Nickel (CAS 7440-02-0)	Not suspected as a human carcinogen.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Chromium (CAS 7440-47-3)	3 Not classifiable as to carcinogenicity to humans.	
Nickel (CAS 7440-02-0)	2B Possibly carcinogenic to humans.	
US. National Toxicology Program (NTP) Report on Carcinogens		
Nickel (CAS 7440-02-0)	Reasonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Not available.	

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Zinc (CAS 7440-66-6)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).		

16. Other information

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Disclaimer	Bailey Metal Products Limited cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.