

MATERIAL SAFETY DATA SHEET

<p>MATERIAL IDENTIFICATION AND USE</p> <p>MATERIAL NAME: STEEL</p> <p>SYNONYMS: Includes all Sheet products, Plate, Strip, Bar, Slab, Ingot, Structural shapes and Tubular Products.</p>		<p>SUPPLIER: RUSSEL METALS INC.</p> <p>ADDRESS: 6600 FINANCIAL DRIVE, MISSISSAUGA, ONTARIO. CANADA. L5N 7J6.</p> <p>TEL: 905-819-7295 FAX: 905-819-7262</p> <p>FORM #: MSDS-01-2014 DATE: AUGUST 2014</p>
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1. PRODUCT INFORMATION

GHS PRODUCT IDENTIFIER: STEEL

OTHER MEANS OF IDENTIFICATION: Includes all Sheet products, Plate, Strip, Bar, Slab, Ingot, Structural shapes and Tubular Products

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:
Solid steel products, various forms and uses. Manufacture of articles.



SUPPLIER'S DETAILS: RUSSEL METALS INC., 6600 FINANCIAL DRIVE, MISSISSAUGA, ONTARIO. CANADA. L5N 7J6

EMERGENCY PHONE NUMBER: 905-819-7295

2. HAZARDS IDENTIFICATION

CLASSIFICATION: Steel is considered an "article" and not hazardous in its solid form. However, certain process such as cutting, milling, grinding, melting and welding could result in some hazardous materials being emitted. The GHS Classification below pertains to these emitted products during these processes.

SIGNAL WORD, HAZARD STATEMENTS & SYMBOLS: DANGER

SYMBOLS	HAZARD	GHS CLASSIFICATION	HAZARD STATEMENTS
	Carcinogenicity Respiratory Sensitizer STOT (repeated exposure)	Category – 1B Category – 1 Category – 1	May cause cancer May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes damage to organs through prolonged or repeated exposure.
	Acute Oral Toxicity Skin Sensitizer STOT (single exposure)	Category – 4 Category – 1 Category – 3	Harmful if swallowed. May cause allergic skin reaction. May cause respiratory irritation.
N/A	Eye Irritation	Category – 2B	Causes eye irritations.

PRECAUTIONARY STATEMENTS:

PREVENTION	FIRST AID RESPONSE
<p>Do not breathe dust/fume/gas/vapour/spray.</p> <p>Use in a well- ventilated area.</p> <p>Use personal protective equipment as required.</p> <p>Wash thoroughly after handling.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read & understood.</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p>	<p>EYES: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if eye irritation persists.</p> <p>SKIN: Wash affected area with mild soap and water. Seek medical attention if skin irritation persists.</p> <p>INHALATION: Remove to fresh air. Check for clear airway, breathing and presence of pulse. If necessary administer CPR. Consult a physician immediately.</p> <p>INGESTION: Dust may irritate mouth and gastrointestinal tract. If ingested, seek medical attention promptly.</p>
STORAGE	DISPOSAL
<p>Store away from acids and incompatible materials.</p> <p>Store in accordance with federal/ provincial/state or local regulations.</p>	<p>Steel scrap should be recycled whenever possible.</p> <p>Otherwise, dispose of in accordance with applicable federal/ provincial/state or local regulations.</p>

HAZARD NOT OTHERWISE CLASSIFIED (HNOC): Not applicable.

NOTES:

- STOT – Specific Target Organ Toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

BASE METAL

(ALL VALUES ARE EXPRESSED AS WEIGHT PERCENT AND ARE APPROXIMATES)

CHEMICAL NAME	CAS NUMBER	CARBON & H.S.L.A. STEELS	ELECTRICAL STEELS	LEADED & LOW ALLOY STEELS	RAILS & TIE PLATES	TUBULAR PROD.
IRON	7439-89-6	91-99	91-99	92-96	94-96	94-96
Manganese	7439-96-5	<2.0	<2.2	<2.2	<1.7	<1.7
Chromium	7440-47-3	<0.1	<1.7	<1.7	<1.6	<0.7
Nickel	7440-02-0	<1.0	<2.1	<2.1	<0.15	<0.5
Copper	7440-50-8	<1.0	--	--	<0.1	<0.5
Phosphorous	7723-14-0	<0.25	--	--	--	<0.1
Molybdenum	7439-98-7	--	--	--	<0.12	<1.0
Lead	7439-92-1	--	--	<0.35	--	--

NOTES:

- For exact composition, refer to analysis or specifications.

METALLIC AND NON-METALLIC COATINGS

GALVANIZE GALVANNEAL	- Hot dipped Zinc (CAS 7440-66-6) coating. Coating weights range from 15-400 g/m ² per side. May be chemically passivated with a Chromium compound which leaves a residual Cr level of 11-40 mg/m ² per side. Petroleum based rust preventative oils are applied to oiled product. Typical oil coating weights range from 1.1-5.4 g/m ² per side.	C2 COATING ELECTRICAL	- Glass film composed of Magnesium ortho-silicate formed during high temperature anneal
		C3 COATING ELECTRICAL	- Oil modified polyester resin varnish film
		C5M COATING ELECTRICAL	- An inorganic iron-silicate complex that is heat and oil resistant with good insulating properties.
GALVALUME	- Hot dipped Zinc (CAS 7440-66-6) 43% and Aluminum (CAS 7429-90-5) 55% coating. Coating weights range from 50-150 g/m ² per side. May also be passivated or oiled similar to Galvanize material.	DRY-LUBE	- Mixture of borate and carbonate soap lubricants for metal forming.
		PRE-LUBE	- Petroleum based oil coating used for metal forming
		LUBE OIL	- Lubricating protective petroleum based oil
TIN PLATE	- Electroplated with tin (CAS 7440-31-5) coating. Coating weights range from 0.9-15 g/m ² per side. Treated with Chromium passivation solution which leaves a Chromium residue of 0.05-7.5 g/m ² per side. May be coated with an edible oil to prevent scratching. Oil coating typically 0.1 micro inches thick.	SLUSHING OIL	- Mineral oil based protective coating containing small quantities of anti-oxidants
		VANISHING OIL	- Solvent applied petroleum oil protective coating leaving a wax-like protective coating.
		PRECOATED	- Cured paint/resin film applied to sheet steel. Galvanized or Galvalume coated steel sheet.
CHROMIUM	- Electroplated with Chromium (CAS 7440-47-3) coating. Coating weights range from 0.1-0.17 g/m ² per side. May be coated with edible oil similar to tin plate.	ZINCROMETAL	- Protective coating of zinc rich paint over a chromate based primer compound. Coating is applied to one side of strip. Typical coating weights range from 0.215-0.325 g/m ²
RUST PROTECTION	- Oil based rust inhibitor (Rust Ban 392) containing 60-100% light hydrotreated distillates (CAS 64742-47-8).	PRIMER	- Standard Shop Primer Coating for steel (#27452 Canam Grey), based on 10-20% light aliphatic naphtha solvent (CAS 64742-89-8), 5-10% petroleum distillates (CAS 68410-16-2) and 5-10% Stoddard solvent (CAS 8052-41-3).

NOTES: 1. Individual coating components are present at values below the reporting requirements of the WHMIS Ingredient Disclosure List.

2. Passivation Treatment (specifically ordered) for Zinc Coated Products may contain hexavalent chromium as a portion of the chromium and chromium oxide corrosion protection coating. In these cases, the actual concentration of hexavalent present varies with steel gauge and coating weight.

4. FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES:

EYE CONTACT:

FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.
SEEK MEDICAL ATTENTION IF EYE IRRITATION PERSISTS.

SKIN CONTACT:

MAINTAIN GOOD PERSONAL HYGIENE. WASH AFFECTED AREA WITH MILD SOAP AND WATER.
SEEK MEDICAL ATTENTION IF SKIN IRRITATION PERSISTS.

INHALATION:

REMOVE TO FRESH AIR. CHECK FOR CLEAR AIRWAY, BREATHING AND PRESENCE OF PULSE.
IF NECESSARY ADMINISTER CPR. CONSULT A PHYSICIAN IMMEDIATELY.

INGESTION:

RARE IN INDUSTRY. DUST MAY IRRITATE MOUTH AND GASTROINTESTINAL TRACT.
IF INGESTED, SEEK MEDICAL ATTENTION PROMPTLY.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Steel as sold and shipped is not likely to present an acute or chronic health effects. However, during processing (cutting, milling, grinding, melting or welding) emitted byproducts may cause irritations, difficulty in breathing, coughing or wheezing. May cause allergic skin reactions.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

Notes to physician: May cause sensitization by skin contact or inhalation. Treat symptomatically.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Non-flammable. Will not support combustion. Not applicable for solid product. Use extinguishers appropriate for surrounding materials. Do not use water on molten metal.
SPECIFIC HAZARDS ARISING FROM MATERIAL:	Not applicable for solid product.
HAZARDOUS COMBUSTION PRODUCTS:	At temperatures above the melting point, fumes containing metal oxides and other alloying elements may be liberated.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS:	Firefighters should wear self-contained NIOSH-approved breathing apparatus and full protective clothing.
EXPLOSION DATA:	
SENSITIVITY TO MECHANICAL IMPACT:	None.
SENSITIVITY TO STATIC DISCHARGE:	N/A.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Not applicable to steel in solid state. Avoid dust formation. Ensure adequate ventilation. Clean-up personnel should be protected against contact with eyes and skin protection.
ENVIRONMENTAL PRECAUTIONS:	Not applicable to steel in solid state.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:	Not applicable to steel in solid state. For spills involving fine dusts, remove by vacuuming or wet sweeping methods to prevent spreading of dust. Avoid inhalation of dusts.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Not applicable to steel in solid state. Operations with the potential for generating high concentrations of airborne particulates should be evaluated and controlled as necessary. Practice good housekeeping. Avoid breathing metal fumes and/or dust.
CONDITIONS FOR SAFE STORAGE:	No special storage conditions for steel in solid state.
INCOMPATIBLE PRODUCTS:	Store away from acids and incompatible materials.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION

CONTROL PARAMETERS:	There are no exposure limits for steel. The exposure limit for iron-containing fumes has been established at 5 mg/m ³ with ACGIH's TWA. The individual complex compounds within the fume may have lower exposure limits than the general fume.
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CHEMICAL NAME	CAS NUMBER	TLV ACGIH (mg/m ³)		
Iron	7439-89-6	5.0 (Respirable)		
Manganese	7439-96-5	0.2 (As inorganic Mn)		
Chromium	7440-47-3	0.5 (Metal & Cr+3) 0.05 (Cr +6 Soluble) 0.01 (Cr +6 Insoluble)		
Nickel	7440-02-0	1.5 (Metal) 0.2 (Insoluble) 0.1 (Soluble)		
Copper	7440-50-8	1.0 (Dust) 0.2 (Fume)		
Phosphorous	7723-14-0	0.1		
Molybdenum	7439-98-7	10.0 (Insoluble) 5.0 (Soluble)		
Lead	7439-92-1	0.05		

NOTES:

- Threshold Limit Values (TLV) established by the American Conference of Governmental Industrial Hygienists (ACGIH - 2011) are 8-hour Time Weighted Average concentrations unless otherwise noted.

APPROPRIATE ENGINEERING CONTROLS:	Provide general or local exhaust to minimize airborne concentrations during milling, grinding, melting and welding operations.
INDIVIDUALAL PROTECTIVE MEASURES:	Dependent upon process being performed on material each operation must be addressed for suitable equipment.
GLOVES (Specify):	Wear gloves as required
CLOTHING (Specify):	N/A
RESPIRATOR (Specify):	If concentrations exceed established limits use NIOSH/MSHA approved particulate respirators (dust & fume or high efficiency dust fume) when grinding or welding.
OTHER (Specify):	N/A
EYES (Specify):	Safety glasses or goggles as required.
FOOTWEAR (Specify):	N/A

9. CHEMICAL AND PHYSICAL PROPERTIES

PHYSICAL STATE:	Solid	APPEARANCE:	Silver Grey Metallic (Steel)
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ODOUR:	Not Applicable	ODOUR THRESHOLD:	Not Applicable
pH:	Not Applicable	MELTING POINT:	1530°C (2786°F)
BOILING POINT:	Not Applicable	FLASH POINT (°C):	N/A
EVAPORATION RATE:	Not Applicable	FLAMMABILITY (solid, Gas):	Not flammable
UPPER FLAMMABLE LIMIT %:	Not Applicable	LOWER FLAMMABLE LIMIT %:	Not Applicable
VAPOUR PRESSURE:	Not Applicable	VAPOUR DENSITY:	Not Applicable
RELATIVE DENSITY:	7.86	SPECIFIC GRAVITY:	No data
SOLUBILITY:	Not soluble	PARTITION COEFFICIENT:	No data
AUTO-IGNITION TEMP (°C):	Not Applicable	DECOMPOSITION TEMPERATURE:	No data
VISCOSITY:	Not Applicable		
OTHER INFORMATION:	Not Applicable		

10. STABILITY AND REACTIVITY

REACTIVITY:	Not determined for product in solid form.
CHEMICAL STABILITY:	Yes. Steel products are stable under normal storage and handling conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:	Hazardous polymerization cannot occur.
CONDITIONS TO AVOID:	Contact with mineral acids will release flammable hydrogen gas. Dust formation.
INCOMPATIBLE MATERIALS:	Yes, strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not Applicable.

11. TOXICOLOGICAL INFORMATION

TOXICITY:

COMPONENT	LD ₅₀ ORAL	LD ₅₀ DERMAL	LD ₅₀ INHALATION	OTHER
Iron	30,000 mg/kg Oral-Rat	-	-	-
Manganese	9000 mg/kg Oral-Rat	-	-	-
Chromium	Unknown	-	-	-
Nickel	>9000 mg/kg Oral-Rat	-	-	-
Copper	Unknown	-	-	-
Phosphorous	Unknown	-	-	-
Molybdenum	Unknown	-	-	-
Lead	Unknown	-	-	-

LIKELY ROUTES OF ENTRY:	None for steel in its natural solid state.
EYES:	High concentrations of dust may cause irritation to the eyes.
SKIN:	Prolonged skin contact with coated steel may cause skin irritation in sensitive individuals.
INHALATION:	Inhalation of metal particulate or elemental oxide fumes generated during welding, burning, grinding or machining may pose acute or chronic health effects.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

None for steel in its natural solid state.

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:	MANGANESE & COPPER: Inhalation overexposure to manganese or copper (or zinc coated products) may cause metal fume fever characterized by fever and chills (i.e. flu-like symptoms) which appear 4-6 hours after exposure with no long-term effects.
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EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:	CHROMIUM: IARC lists certain hexavalent chromium compounds under its Group 1 category - "confirmed human carcinogens" and metallic chromium under its Group 3 category - "not classifiable as to their carcinogenicity to humans". Chromium metal is classified as carcinogenic by NTP. NICKEL: IARC lists metallic nickel under its Group 2B category - "possibly carcinogenic to humans". Nickel may cause skin sensitivity COBALT: Cobalt dust may result in an asthma-like condition (cough, shortness of breath). IARC lists metallic cobalt under its Group 2B category - "possibly carcinogenic to humans". IRON: Inhalation overexposures may cause a benign pneumoconiosis (siderosis) with few or no symptoms. MANGANESE: Existing studies are inadequate to assess its carcinogenicity. Susceptible to Parkinson's disease, metal fume fever and kidney damage.
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STOT (Single Exposure):	No data
STOT (Repeated Exposures):	Respiratory system. Allergic skin reactions.
MUTAGENICITY OF MATERIAL:	N/A
REPRODUCTIVE EFFECTS:	N/A
TERATOGENICITY OF MATERIAL:	N/A
CARCINOGENICITY OF MATERIAL:	CHROMIUM: IARC lists certain hexavalent chromium compounds under its Group 1 category - "confirmed human carcinogens" and metallic chromium under its Group 3 category - "not classifiable as to their

carcinogenicity to humans".

NICKEL: IARC lists metallic nickel under its Group 2B category - "possibly carcinogenic to humans".

COBALT: IARC lists metallic cobalt under its Group 2B category - "possibly carcinogenic to humans".

LEAD: IARC lists lead and its inorganic compounds under its Group 2B category - "possibly carcinogenic to humans".

SYNERGISTIC MATERIALS: N/A

ASPIRATION HAZARD: No data.

SENSITIZATION OF MATERIAL: N/A

LD₅₀ (of Material): Not established

LC₅₀ (of Material): Not established

NOTES:

- STOT – Specific Target Organ Toxicity
- International Agency for Research on Cancer (IARC) - Summaries & Evaluations (2008).
- 3rd Annual Report on Carcinogens as prepared by the National Toxicology Program (NTP).
- Iron containing welding fume has an exposure limit of 5 mg/m³ (ACGIH-TLV's 2011). Welding fume may also contain contaminants from fluxes or welding consumables. Prolonged skin contact may cause reddening and drying of skin or dermatitis in sensitive individuals due to nickel and/or chromium content in steel.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data available for the stainless steel in its natural solid state. However, individual components of the material have been found to be toxic to the environment.

COMPONENT	TOXICITY TO FISH	TOXICITY TO ALGAE	TOXICITY TO MICROORGANISMS
Iron	LC50 Common Carp 96 hr. 0.56 mg/l	-	-
Chromium	LC50 Fathead minnow 96 hr. 10-100 mg/l	-	-
Nickel	LC50 Common Carp 96 hr. 1.3 mg/l	EC50 Freshwater Algae 72 hr. 0.18 mg/l	EC50 Water Flea 48 hr. 1.0 mg/l
Lead	LC50 Common Carp 96 hr. 0.44 mg/l	-	EC50 Water Flea 48 hr. 0.0006 mg/l

PERSISTENCE AND DEGRADABILITY: No data available.

BIOACCUMULATIVE POTENTIAL: No data available.

MOBILITY IN SOIL: No data available for steel in its natural solid state. Individual metal dusts may migrate into soil and groundwater and be absorbed by plants.

OTHER ADVERSE EFFECTS: None known.

13. DISPOSAL INFORMATION

WASTE DISPOSAL METHODS: Steel scrap should be recycled whenever possible.

CONTAINER CLEANING & DISPOSAL: Dispose of in accordance with applicable federal, provincial/state or local regulations.

14. TRANSPORTATION INFORMATION

GENERAL SHIPPING INFORMATION: Steel not regulated for shipping.

SHIPPING NAME AND DESCRIPTION: N/A

UN NUMBER: N/A

HAZARD CLASS: N/A

PACKING GROUP/RISK GROUP: N/A

TRANSPORT REGULATIONS:

Canadian Transportation of Dangerous Goods Regulations (TDG) March 2011.

US Department of Transport (DOT) Hazardous Materials shipping information (Title 49 - Transportation March 2011).

15. REGULATORY INFORMATION

REGULATORY INFORMATION: *The following listing of regulations relating to a Russel Metals Inc. product may not be complete and should not be solely relied upon for all regulatory compliance responsibilities.*

ADDITIONAL CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: Class D2A/D2B: Materials Causing Other Toxic Effects.

DOMESTIC SUBSTANCES LIST: The components of this material are on the federal DSL Inventory.

OTHER CANADIAN REGULATIONS: N/A

ADDITIONAL U.S. REGULATIONS:

SARA: The components of this material are subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA – Oct. 2006), as follows:

CHEMICAL NAME	SARA 302 (40 CFR 355, Appendix A)	SARA 304 (40 CFR Table 302.4)	SARA 313 (40 CFR 372.65)	CERCLA Reportable Quantities
Chromium	No	No	Yes	5,000 lb.
Copper	No	No	Yes	5,000 lb.
Lead	No	No	Yes	10 lb.
Manganese	No	No	Yes	None listed

Nickel	No	No	Yes	100 lb.
Phosphorus	Yes	Yes	Yes	1 lb.
Vanadium	No	No	No	None listed

SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this material. Threshold Planning Quantities for Phosphorous is 100 lb. (45.4 kg), per 40 CFR 370.20.

TSCA INVENTORY STATUS: The components of this material are listed on the Toxic Substances Control Act Inventory.

CERCLA REPORTABLE QUANTITY (RQ): RQ's for Hazardous Substances in the Comprehensive Environmental Response, Compensation, and Liability Act are: Chromium = 5000 lb. (2270 kg); Copper = 5000 lb. (2270 kg); Nickel = 100 lb. (45 kg); Phosphorous 1 lb. (0.454 kg).

CALIFORNIA (PROPOSITION 65): The Chromium (VI) component of this material is known in the State of California to cause cancer. The Nickel component of this material is known in the State of California to cause cancer. The Cobalt component of this material is known in the State of California to cause cancer. The Lead component of this material is known in the State of California to cause cancer, and/or birth defects (or other reproductive harm).

OTHER U.S. FEDERAL REGULATIONS: Lead is regulated under 29 CFR 1910.1025.

ADDITIONAL EUROPEAN UNION REGULATIONS:

RoHS & WEEE: This MSDS follows the European Union Directive "Restriction on the Use of Certain Hazardous Substances (RoHS) in Electrical and Electronic Equipment" (2002/95/EC) and the "Waste Electrical and Electronic Equipment (WEEE)" Directive (2002/96/EC).

Lead (Pb): The leaded low alloy steel has a lead content of <0.35%, which is above the EU Directive limit of 0.1%. Lead is not intentionally added to other steel alloys however, it may exist in trace levels. Note, the EU Directive has a lead exemption limit of up to 0.35% as an alloying element in steel.

Chromium VI (Cr +6): The hexavalent oxidation state of chromium does not normally exist as part of a metal or alloy.

16. OTHER INFORMATION

STEEL

HAZARD LABEL RATING SYSTEMS:

NATIONAL FIRE PROTECTION CODE:
NFPA CODE: H=0 F=0 R=0



HAZARDOUS MATERIALS IDENTIFICATION SYSTEM:

HMS CODE: H=1* F=0 R=0 PPE: See Section 8

HEALTH	1
FLAMMIBILITY	0
REACTIVITY	0
OTHER	*

* Denotes possible chronic hazard if airborne dusts or fumes are generated.

PREPARED BY: RUSSEL METALS INC. AND ENVIROTEST INC.

DATE: AUGUST 2014

TELEPHONE: 905-819-7295

NOTE: CONTACT SUPPLIER FOR ADDITIONAL PRODUCT INFORMATION

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