



Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.07.2020

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Galvanized Steel Deck (Painted and Unpainted)

SECTION 1: Identification

Product identifier

Product name: Galvanized Steel Deck (Painted and Unpainted)

Also applies to: Steel Deck, Galvanized Steel Deck, Composite Deck, Versa- Dek®, Bridge-Dek® and Rhino-Dek®

Additional information: This product is not hazardous as supplied, shipped or sold. However, if subjected to further processing (such as welding, soldering, smelting, grinding, or polishing) hazardous substances may be released and made available for exposure. The Hazard Classification and corresponding label elements are applicable to this product in such a scenario. Consideration should also be given to the generation of hazardous oxides of the metals in this product and health hazards associated with those oxides. Additional consideration should be given to the release of hazardous components from product coatings and acoustical/insulation/foam materials incorporated into the product.

Recommended use of the product and restriction on use

Relevant identified uses: Roof deck, Sub floor deck

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

New Millennium Building Systems, LLC
6115 Country Road 42
Butler, IN 46721
260-868-6000

New Millennium Building Systems, LLC
100 Diuguids Lane
Salem, VA 24153
540-389-0211

New Millennium Building Systems, LLC
1992 NW Bascom Norris Drive
Lake City, FL 32055
386-466-1300

New Millennium Building Systems, LLC
3565 US Highway 32 North
Hope, AR 71801
870-722-4100

New Millennium Building Systems, LLC
4900 Hungerford Road
Memphis, TN 38118
901-969-3033

Emergency telephone number:

United States

CHEMTREC

Domestic Shipments: 1-800-929-9300 (24 hours)

International Shipments: +1-703-742-5970 (24 hours)

Customer Number: CCN828604

SECTION 2: Hazard(s) identification

GHS classification:

Skin sensitization, category 1

Respiratory sensitization, category 1

Carcinogenicity, category 2

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Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H317 May cause an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H351 Suspected of causing cancer

Precautionary statements:

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P272 Contaminated work clothing must not be allowed out of the workplace

P280 Wear protective gloves/protective clothing/eye protection/face protection

P284 Wear respiratory protection

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P321 Specific treatment (see Sections 4 - 8 of this SDS and any supplemental information on the product label).

P363 Wash contaminated clothing before reuse

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P308+P313 IF exposed or concerned: Get medical advice/attention

P405 Store locked up

P501 Dispose of contents/container in accordance with local, regional, state and federal regulations.

Hazards not otherwise classified:

METAL FUME FEVER: Excessive inhalation of metal fumes may cause a flu-like illness called "Metal Fume Fever". Symptoms include: headache, fever, chills, muscle aches, thirst, nausea, vomiting, chest soreness, fatigue, gastrointestinal pain and weakness. The symptoms usually start several hours after exposure; the attack may last 6 to 24 hours. Complete recovery generally occurs without intervention within 24 to 48 hours. Metal Fume Fever is more likely to occur after a period away from the job (after weekends or vacations) and usually last from 12 to 48 hours.

If this product is subjected to "hot work" (such as soldering, welding, brazing, smelting) hazardous by-products will be formed as oxides of the metal(s) in this product. Such metal oxides may pose additional health hazards.

Further processing of this product may compromise the product coating(s), resulting in the release hazardous fumes of gases. Observe safety measures suited to the coating(s) when handling, cutting or melting.

If acoustical/insulation/foam components are subjected to fabrication processes (such as sawing, cutting, etc.), fibrous glass, diantimony trioxide, carbon black and other hazardous ingredients may be released and made available for exposure. The occupational exposure limits for fibrous glass, diantimony trioxide and carbon black are provided in Section 8 of this SDS.

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SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 7439-89-6	Iron	>90
CAS number: 7439-96-5	Manganese	<2
CAS number: 7440-47-3	Chromium	<1
CAS number: 7440-21-3	Silicon	<1
CAS number: 7440-02-0	Nickel	<0.4
CAS number: 7440-62-2	Vanadium	<0.2
CAS number: Not Applicable	*Coating(s)	<1

Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

*Products may be coated (concentration < 1.0% by weight). Coating may contain chromium in the range of 1.5 - 2 mg of chromium/sq foot or 10 - 15 mg of chromium/sq foot depending on the treatment. SDS's for specific coatings are available upon request.

This product is galvanized with zinc. Zinc oxide fumes may be formed during welding, cutting or burning. The occupational exposure limits for zinc oxide are given in Section 8 of this SDS. The zinc surface of galvanized products may be treated with chromic acid leaving a residual coating of chromium III and VI. Products may contain acoustical insulation and/or foam. SDS's for insulation and foam are available upon request.

SECTION 4: First aid measures

Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

This product is not hazardous as supplied, shipped or sold. The first aid measures described below are applicable only if hazardous chemicals are made available for exposure during further processing of this product.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If

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experiencing respiratory symptoms, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After swallowing:

Not a likely route of exposure.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

This product is not hazardous as supplied, shipped or sold. The acute effects/symptoms described below are applicable to exposure during further processing of this product.

Exposure to airborne dusts and fumes may cause skin and eye irritation (chemical and mechanical).

Symptoms include redness, burning, tearing, itching and inflammation.

Exposure to airborne dusts or fumes may cause respiratory irritation. Symptoms include cough, breathing difficulties, inflammation of the mucous membranes lining the respiratory tract and nose and throat pain.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Inhalation exposure may cause allergy, asthma symptoms or breathing difficulties. Symptoms may include cough, chronic phlegm, shortness of breath, wheezing and chest tightness. Symptoms may be delayed.

Excessive inhalation of metal fumes may cause a flu-like illness called "Metal Fume Fever". Symptoms include: headache, fever, chills, muscle aches, thirst, nausea, vomiting, chest soreness, fatigue, gastrointestinal pain and weakness. The symptoms usually start several hours after exposure; the attack may last 6 to 24 hours. Complete recovery generally occurs without intervention within 24 to 48 hours. Metal Fume Fever is more likely to occur after a period away from the job (after weekends or vacations) and usually last from 12 to 48 hours.

Delayed symptoms and effects:

This product is not hazardous as supplied, shipped or sold. The delayed effects/symptoms described below are applicable to exposure during further processing of this product.

Effects are dependent on exposure (dose, concentration, contact time).

Repeated or prolonged exposure to metal fumes and dust may cause damage to organs.

Prolonged or repeated inhalation exposure to excessive concentrations of iron and iron oxide fumes or dust may result in the development of a benign pneumoconiosis, called siderosis and reduced pulmonary function.

Chronic inhalation exposure to nickel and nickel compounds may cause lung fibrosis and pneumoconiosis.

Prolonged or repeated exposure to fumes and dust of manganese and manganese oxide may adversely affect the lungs, resulting in increased susceptibility to bronchitis and pneumonitis. Long-term exposure to manganese compounds may affect the central nervous system.

Repeated or prolonged inhalation of chromium oxide dust or fume may cause nasal ulceration and perforation of the nasal septum. Repeated or prolonged exposure to hexavalent chromium may damage the kidneys, resulting in kidney impairment.

Repeated or prolonged inhalation exposure to zinc and zinc compounds may adversely affect the lungs, resulting in reduced lung function.

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Repeated or prolonged inhalation of vanadium and vanadium oxide dust or fumes may cause damage to the lungs resulting in chronic bronchitis and pneumonitis. Chronic exposure may cause a greenish-black discoloration of the tongue.

Repeated or prolonged exposure to fumes and dust may cause cancer.

Inhalation of nickel and nickel oxide fume and dust may cause lung cancer.

Exposure to hexavalent chromium may cause cancer. Studies have shown that chromate production workers exposed to hexavalent chromium compounds have an excess of lung and sinus cancers.

Inhalation of excessive concentrations of iron and iron oxide dust and fume may enhance the risk of lung cancer development in workers exposed to carcinogens.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use extinguishers appropriate for surrounding materials.

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition may release irritating and toxic fumes including, but not limited to, iron oxides, manganese oxides, carbon oxides, chromium oxides, nickel oxides, silicon oxides, vanadium oxides and zinc oxides.

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Not applicable to product as supplied, shipped and sold.

For spills involving dust generated from further processing: Wear recommended personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Do not breathe dust or fumes. Wear suitable respiratory protection if inhalation of airborne dust is possible. Avoid generation of dust or actions that result in dust becoming airborne. Wash thoroughly after handling.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up:

Collect material and place in a suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

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SECTION 7: Handling and storage

Precautions for safe handling:

Avoid contact with sharp edges and hot surfaces. Use appropriate gloves and tools to ensure safe handling (see Section 8 for recommended personal protective equipment). Use work methods which minimize dust/fume production. Do not breathe fumes and dusts generated during further processing (such as welding, soldering, smelting, grinding, or polishing). Observe safety measures suited to the coating(s) when handling, cutting or melting. The organic material(s) of the coating(s) may generate fumes or gases when heated or melted. Follow the recommendations in ANSI Z49.1, Safety in welding and cutting (ANSI=American National Standard Institute).

Conditions for safe storage, including any incompatibilities:

Store in a dry place. Store away from heat, open flames and other sources of ignition. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
OSHA	Iron	7439-89-6	8-Hour TWA-PEL: 10 mg/m ³ (As Iron Oxide Fume or Dust)
	Manganese	7439-96-5	Ceiling Limit: 5 mg/m ³
	Manganese	7439-96-5	TWA: 1 mg/m ³ ([Fume.])
	Chromium	7440-47-3	8-Hour TWA-PEL: 1 mg/m ³ (Chromium, Metal & Insoluble Salts as Cr)
	Chromium	7440-47-3	8-Hour TWA-PEL: 0.5 mg/m ³ (for chromium (II) or (III) compounds)
	Chromium	7440-47-3	8-Hour TWA-PEL: 0.005 mg/m ³ (for chromium VI and chromium oxides)
	Chromium	7440-47-3	Level Limit Value: 0.0025 mg/m ³ (for chromium VI and chromium oxides - Immediate Action Level)
	Silicon	7440-21-3	8-Hour TWA-PEL: 15 mg/m ³ (total dust)
	Silicon	7440-21-3	8-Hour TWA-PEL: 5 mg/m ³ (respirable fraction)
	Nickel	7440-02-0	8-Hour TWA-PEL: 1 mg/m ³ (As Ni)
	Vanadium	7440-62-2	PEL Ceiling: 0.1 mg/m ³ (as V ₂ O ₅ - fume)
	Vanadium	7440-62-2	PEL Ceiling: 0.5 mg/m ³ (as V ₂ O ₅ - respirable dust)
	Carbon black	1333-86-4	8-Hour TWA-PEL: 3.5 mg/m ³
	Diantimony trioxide	1309-64-4	8-Hour TWA-PEL: 0.5 mg/m ³ (Antimony compounds, as Sb)
	Zinc Oxide	1314-13-2	8-Hour TWA-PEL: 5 mg/m ³ (fume)
Zinc Oxide	1314-13-2	8-Hour TWA-PEL: 15 mg/m ³ (total dust)	

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Zinc Oxide	1314-13-2	8-Hour TWA-PEL: 5 mg/m ³ (respirable dust)
NIOSH	Iron	7439-89-6	REL: 5 mg/m ³ (As Iron Oxide Fume or Dust)
	Iron	7439-89-6	IDLH: 2500 mg/m ³ (As Iron Oxide Fume or Dust)
	Manganese	7439-96-5	REL-TWA: 1 mg/m ³ (up to 10 hrs.)
	Manganese	7439-96-5	15-Minute STEL: 3 mg/m ³
	Manganese	7439-96-5	IDLH: 500 mg/m ³
	Manganese	7439-96-5	IDLH: 500 mg/m ³
	Manganese	7439-96-5	STEL: 3 mg/m ³
	Manganese	7439-96-5	REL: 1 mg/m ³
	Chromium	7440-47-3	REL-TWA: 0.5 mg/m ³ (Chromium, Metal & Insoluble Salts as Cr)
	Chromium	7440-47-3	IDLH: 250 mg/m ³ (Chromium, Metal & Insoluble Salts as Cr)
	Chromium	7440-47-3	REL-TWA: 0.0002 mg/m ³ (for chromium VI and chromium oxides)
	Silicon	7440-21-3	REL-TWA: 5 mg/m ³ (respirable - up to 10 hrs.)
	Silicon	7440-21-3	REL-TWA: 10 mg/m ³ (total dust - up to 10 hrs.)
	Nickel	7440-02-0	REL: 0.01 mg/m ³ (As Ni, for up to a 10-h workday during a 40 h workweek)
	Nickel	7440-02-0	IDLH: 10 mg/m ³
	Vanadium	7440-62-2	15-Minute STEL: 3 mg/m ³
	Vanadium	7440-62-2	Ceiling Limit: 0.05 mg/m ³ (as V ₂ O ₅ - 15 min.)
	Vanadium	7440-62-2	IDLH: 35 mg/m ³
	Fibrous glass	65997-17-3	REL: 3 fibers/cm ³ (Fibrous glass dust & Mineral wool fiber, fibers)
	Fibrous glass	65997-17-3	REL: 5 mg/m ³ (Fibrous glass dust & Mineral wool fiber, Total)
	Carbon black	1333-86-4	REL-TWA: 3.5 mg/m ³ (10 hr)
	Carbon black	1333-86-4	IDLH: 1750 mg/m ³
	Carbon black	1333-86-4	REL-TWA: 0.1 mg/m ³ (10hr - in presence of polycyclic aromatic hydrocarbons)
	Diantimony trioxide	1309-64-4	IDLH: 50 mg/m ³ (Antimony compounds, As Sb)
	Diantimony trioxide	1309-64-4	REL-TWA: 0.5 mg/m ³ (10-hour workday; Antimony compounds, as Sb)
	Zinc Oxide	1314-13-2	REL-TWA: 5 mg/m ³ (up to 10 hr.)
	Zinc Oxide	1314-13-2	Ceiling Limit: 15 mg/m ³
	Zinc Oxide	1314-13-2	IDLH: 500 mg/m ³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Iron	7439-89-6	8-Hour TWA: 5 mg/m ³ (Iron Oxide Dust (respirable particulate))
	Manganese	7439-96-5	8-Hour TWA: 0.02 mg/m ³ (respirable particulate matter)
	Manganese	7439-96-5	8-Hour TWA: 0.1 mg/m ³ (inhalable particulate matter)
	Chromium	7440-47-3	8-Hour TWA: 0.5 mg/m ³ (inhalable particulate matter - Chromium, Metal & Insoluble Salts as Cr)
	Chromium	7440-47-3	8-Hour TWA: 0.0002 mg/m ³ (for chromium VI and chromium oxides - inhalable particulate matter)
	Chromium	7440-47-3	15-Minute STEL: 0.0005 mg/m ³ (for chromium VI and chromium oxides - inhalable particulate matter)
	Nickel	7440-02-0	8-Hour TWA: 1.5 mg/m ³ (Inhalable Fraction)
	Vanadium	7440-62-2	8-Hour TWA: 0.05 mg/m ³ (as V ₂ O ₅ - inhalable particulate matter)
	Fibrous glass	65997-17-3	8-Hour TWA: 1 fibers/cm ³ (Continuous filament glass fibers; glass wool fibers)
	Fibrous glass	65997-17-3	8-Hour TWA: 5 mg/m ³ (Continuous filament glass fibers, inhalable fraction)
	Fibrous glass	65997-17-3	8-Hour TWA: 0.2 fibers/cm ³ (Refractory ceramic fibers)
	Carbon black	1333-86-4	8-Hour TWA: 3 mg/m ³ (inhalable particulate matter)
	Diantimony trioxide	1309-64-4	8-Hour TWA: 0.5 mg/m ³ (Antimony compounds, as Sb)
	Diantimony trioxide	1309-64-4	8-Hour TWA: 0.02 mg/m ³ (Antimony Trioxide, Inhalable fraction)
	Zinc Oxide	1314-13-2	8-Hour TWA: 2 mg/m ³ (respirable particulate matter)
	Zinc Oxide	1314-13-2	15-Minute STEL: 10 mg/m ³ (respirable particulate matter)
United States(California)	Manganese	7439-96-5	8-Hour TWA: 0.2 mg/m ³
	Manganese	7439-96-5	15-Minute STEL: 3 mg/m ³
	Manganese	7439-96-5	STEL: 3 mg/m ³
	Manganese	7439-96-5	PEL: 0.2 mg/m ³
	Manganese	7439-96-5	REL: 0.09 ug/m ³ (Chronic Inhalation)
	Silicon	7440-21-3	8-Hour TWA-PEL: 10 mg/m ³ (total dust)
	Silicon	7440-21-3	8-Hour TWA-PEL: 5 mg/m ³ (respirable fraction)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Fibrous glass	65997-17-3	8-Hour TWA: 1 fibers/cm ³ (Glass, fibrous)
	Fibrous glass	65997-17-3	8-Hour TWA: 0.2 fibers/cm ³ (Refractory ceramic fiber)
	Carbon black	1333-86-4	8-Hour TWA-PEL: 3.5 mg/m ³
	Diantimony trioxide	1309-64-4	8-Hour TWA-PEL: 0.5 mg/m ³ (Antimony compounds, as Sb)
	Zinc Oxide	1314-13-2	8-Hour TWA-PEL: 5 mg/m ³ (dust)
United States	Zinc Oxide	1314-13-2	15-Minute STEL: 15 mg/m ³ (dust)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

The engineering controls described below are recommended only if hazardous chemicals are made available for exposure during further processing of this product.

Use local exhaust, mechanical ventilation or additional engineering measures to maintain airborne concentration below any occupational exposure limits. Ensure that Emergency eye wash station and safety shower are in good working order and in the immediate vicinity of any possible exposure.

Personal protection equipment

Eye and face protection:

It is recommended that eye protection be worn at all times in a manufacturing or industrial environment. Wear safety goggles or safety glasses with side shields. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

A face shield is recommended, in addition to safety glasses or goggles, during sawing, grinding, or machining.

A welding helmet with appropriate shaded shield is required during welding, burning, or brazing.

Skin and body protection:

Wear protective gloves and suitable protective clothing. While handling product and/or steel packing material wear cut resistant gloves and sleeves for laceration protection.

When material is heated, wear gloves to protect against thermal burns. Thermally protective apron and long sleeves are recommended when volume of hot material is significant.

The skin protection described below is necessary only if hazardous chemicals are made available for exposure during further processing of this product.

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

The respiratory protection described below is necessary only if hazardous chemicals are made available for exposure during further processing of this product.

In case of insufficient ventilation, wear suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear a properly fitted, air-purifying or air-fed respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Use respirators and components tested and

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approved under appropriate government standards such as NIOSH (US) or CEN (EU).

General hygienic measures:

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday. Appropriate techniques should be applied to remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Observe any medical surveillance requirements.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	White/Gray (painted) / Metallic gray (unpainted) solid metal (with or without acoustical insulation and/or foam end pieces)
Odor	None
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	2750 °F (1510 °C) for steel component
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	7 - 8 (steel component)
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to avoid:

Incompatible materials

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Incompatible materials:

Strong acids; Oxidizing agents

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Iron	oral	LD50 Rat: 30,000 mg/kg
Manganese	oral	LD50 Rat: 9000 mg/kg
Chromium	oral	LD50 Rat: >3400 mg/kg
	inhalation	LC50 Rat: >5.41 mg/L (4 h Aerosol)
Silicon	oral	LD50 Rat: 3160 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Chromium	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Product data:

No data available.

Substance data:

Name	Result
Chromium	May cause an allergic skin reaction.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Nickel	May cause an allergic skin reaction.

Carcinogenicity

Assessment:

Suspected of causing cancer.

Product data: No data available.

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Substance data:

Name	Species	Result
Iron	Not Applicable	Inhalation of excessive concentrations of iron oxide may enhance the risk of lung cancer development in workers exposed to carcinogens.
Nickel		Suspected of causing cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Chromium	Group 3
Nickel	Group 2B
Fibrous glass	Group 2B
Carbon black	Group 2B
Diantimony trioxide	Group 2B

National Toxicology Program (NTP):

Name	Classification
Chromium	Known to be human carcinogens
Nickel	Reasonably anticipated to be human carcinogens
Fibrous glass	Reasonably anticipated to be human carcinogens

OSHA Carcinogens: Not applicable

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Iron	Chronic inhalation of excessive concentrations of iron fumes or dust may result in the development of a benign pneumoconiosis, called siderosis.
Nickel	Causes damage to organs (lungs) through prolonged or repeated exposure.

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Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

Not Applicable to product as supplied, shipped and sold.

If subjected to further processing, the anticipated routes of exposure are inhalation, skin contact and eye contact.

Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

Contaminated packages:

Not determined or not applicable.

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SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA): All ingredients are listed or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals:

7439-96-5	Manganese	Listed
7440-47-3	Chromium	Listed
7440-02-0	Nickel	Listed
7440-62-2	Vanadium	Listed

CERCLA: Not applicable – any listed substances are intrinsically bound in the product.

RCRA:

7440-47-3	Chromium	Listed	D007
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Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

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Massachusetts Right to Know:

7439-96-5	Manganese	Listed
7440-47-3	Chromium	Listed
7440-21-3	Silicon	Listed
7440-02-0	Nickel	Listed
7440-62-2	Vanadium	Listed

New Jersey Right to Know:

7439-89-6	Iron	Listed
7439-96-5	Manganese	Listed
7440-47-3	Chromium	Listed
7440-21-3	Silicon	Listed
7440-02-0	Nickel	Listed
7440-62-2	Vanadium	Listed

New York Right to Know:

7439-96-5	Manganese	Listed
7440-47-3	Chromium	Listed
7440-02-0	Nickel	Listed
7440-62-2	Vanadium	Listed

Pennsylvania Right to Know:

7439-89-6	Iron	Listed
7439-96-5	Manganese	Listed
7440-47-3	Chromium	Listed
7440-21-3	Silicon	Listed
7440-02-0	Nickel	Listed
7440-62-2	Vanadium	Listed

California Proposition 65:

⚠️WARNING: This product can expose you to Nickel; which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

⚠️WARNING: This product can expose you to Chromium (hexavalent compounds); which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 0-0-0

HMIS: 0-0-0

Initial preparation date: 10.07.2020

End of Safety Data Sheet