



# United States Steel Corporation

## B-Scrap

### Safety Data Sheet (SDS)

USS IHS Number: 75094

Locations: ET, Fairfield, Gary, Granite City, Great Lakes, Hamilton, Lake Erie

Original: 12/16/2010

Revision: 09/27/2020

### Section 1 – Identification

1(a) Product Identifier used on Label: B-Scrap

1(b) Other Means of Identification: Steel Scrap B, Steel Shop Scrap B

1(c) Recommended use of the chemical and restrictions on use: None

1(d) Name, Address, and Telephone Number:



United States Steel Corporation Phone number: (412) 433-6840 (8:00 am to 5:00 pm)  
 600 Grant Street, Room 1662 FAX: (412) 433-5019  
 Pittsburgh, PA 15219-2800

1(e) Emergency Phone Number: 1-800-262-8200 (CHEMTREC)

### Section 2 – Hazard(s) Identification

2(a) Classification of the Chemical: B-Scrap is considered a hazardous material according to the criteria specified in REACH [REGULATION (EC) No 1907/2006] and CLP [REGULATION (EC) No 1272/2008] and OSHA 29 CFR 1910.1200 Hazard Communication Standard. The categories of Health Hazards as defined in "GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), Third revised edition ST/SG/AC.10/30/Rev. 3" United Nations, New York and Geneva, 2009 have been evaluated. Refer to Section 3, 8 and 11 for additional information.

2(b) Signal Word, Hazard Statement(s), Symbols and Precautionary Statement(s):

Hazard Symbol	Hazard Classification	Signal Word	Hazard Statement(s)
	Skin Irritation - 1B Eye Irritation - 1	WARNING	Causes severe skin burns and serious eye damage. Harmful if swallowed. May cause respiratory irritation.
	Acute Toxicity-Oral - 4 Specific Target Organ Toxicity (STOT) Single Exposure - 3		

Precautionary Statement(s):

Prevention	Response	Storage/Disposal
Do not breathe dusts or fume. Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.	If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.	Store locked up. Dispose of contents in accordance with federal, state and local regulations.

2(c) Hazards not Otherwise Classified: None Known

2(d) Unknown Acute Toxicity Statement (Mixture): None Known

### Section 3 – Composition/Information on Ingredients

#### 3(a-c) Chemical Name, Common Name (Synonyms), CAS Number and Other Identifiers, and Concentration:

Chemical Name	CAS Number	EC Number	% weight
Iron	7439-89-6	231-096-4	50-70
Metallic Silicates*	Various	Various	20-35
Magnesium Oxide	1309-48-4	215-171-9	3-5

EC- European Community

CAS- Chemical Abstract Service

**B-Scrap** contains a mixture of complex metallic silicates, aluminates, and ferrites, including dicalcium silicate (Ca<sub>2</sub>SiO<sub>4</sub>) 14284-23-2, dicalcium ferrite (Ca<sub>2</sub>Fe<sub>2</sub>O<sub>5</sub>) 12012-62-6, calcium manganese silicate, and calcium aluminate (CaAl<sub>2</sub>O<sub>7</sub>).

### Section 4 – First-aid Measures

#### 4(a) Description of Necessary Measures:

- **Inhalation:** If Inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician.
- **Eye Contact:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
- **Skin Contact:** If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
- **Ingestion:** If swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth. Do **NOT** induce vomiting.

#### 4(b) Most Important Symptoms/Effects, Acute and Delayed (Chronic):

##### Acute effects:

- **Inhalation:** Excessive exposure to high concentrations of dust may cause irritation to the eyes, skin and mucous membranes of the upper respiratory tract.
- **Eye:** Particles of iron or iron compounds may become imbedded in the eye. Excessive exposure to high concentrations of dust may cause irritation to the eyes.
- **Skin:** Skin contact with dusts may cause irritation or sensitization, possibly leading to dermatitis. Skin contact with metallic fumes and dusts may cause physical abrasion.
- **Ingestion:** Ingestion of dust may cause nausea and/or vomiting.

##### Chronic Effects:

Individuals with chronic respiratory disorders (i.e., asthma, chronic bronchitis, emphysema, etc.) may be adversely affected by any fume or airborne particulate matter exposure. Persons with pre-existing skin disorders may be more susceptible to dermatitis.

#### 4(c) Immediate Medical Attention and Special Treatment: Treat symptomatically.

### Section 5 – Fire-fighting Measures

**5(a) Suitable (and Unsuitable) Extinguishing Media:** Use extinguishers appropriate for surrounding materials.

**5(b) Specific Hazards Arising from the Chemical:** Not applicable for solid product. Incompatibility (materials to avoid) heat, and flames. When burned, toxic smoke and vapor may be emitted including, oxides of carbon, metal oxides and other toxic vapors.

**5(c) Special Protective Equipment and Precautions for Fire-fighters:** Self-contained NIOSH approved respiratory protection and full protective clothing should be worn when fumes and/or smoke from fire are present. Heat and flames cause emittance of acrid smoke and fumes. Do not release runoff from fire control methods to sewers or waterways. Firefighters should wear full face-piece self-contained breathing apparatus and chemical protective clothing with thermal protection. Direct water stream will scatter and spread flames and, therefore, should not be used.

### Section 6 - Accidental Release Measures

**6(a) Personal Precautions, Protective Equipment and Emergency Procedures:** Not applicable in solid state. For spills involving molten iron, personnel should be protected against contact with eyes and skin and avoid inhalation of dust/fume. For spills involving finely divided particles, clean-up personnel should be protected against contact with eyes and skin. If material is in a dry state, avoid inhalation of dust. Personnel should be protected against contact with eyes and skin. Fine, dry material should be removed by vacuuming or wet sweeping methods to prevent to prevent spreading of dust. Avoid using compressed air. Do not release into sewers or waterways.

**6(b) Methods and Materials for Containment and Clean Up:** Collect material in appropriate, labeled containers for recovery or disposal in accordance with federal, state, and local regulations. Follow applicable OSHA regulations (29 CFR 1910.120) and all other pertinent state and federal requirements.

**Section 7 - Handling and Storage**

**7(a) Precautions for Safe Handling:** Wash thoroughly after handling. Do not breathe dusts or fume. Wear protective gloves / protective clothing / eye protection / face protection. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Use only outdoors or in a well-ventilated area. Avoid direct contact on skin, eyes or on clothing. Emergency safety showers and eye wash stations should be present.

**7(b) Conditions for Safe Storage, including any Incompatibilities:** Whenever feasible, store locked up.

**Section 8 - Exposure Controls / Personal Protection**

**8(a) Occupational Exposure Limits (OELs):** The following exposure limits are offered as reference, for an experience industrial hygienist to review.

Ingredients	OSHA PEL <sup>1</sup>	ACGIH TLV <sup>2</sup>	NIOSH REL <sup>3</sup>	IDLH <sup>4</sup>
Iron	10 mg/m <sup>3</sup> (iron oxide fume)	5.0 mg/m <sup>3</sup> (iron oxide, respirable fraction <sup>5</sup> )	5.0 mg/m <sup>3</sup> (iron oxide dust and fume)	2,500 mg/m <sup>3</sup> (as Fe)
Metallic Silicates	NE	NE	NE	NE
Magnesium Oxide	15 mg/m <sup>3</sup> (as magnesium oxide fume, total particulate)	10 mg/m <sup>3</sup> (as magnesium oxide, inhalable fraction <sup>6</sup> )	NE	750 mg/m <sup>3</sup> (as magnesium oxide fume)

NE - None Established

1. OSHA PELs (Permissible Exposure Limits) are 8-hour TWA (time-weighted average) concentrations unless otherwise noted. A ("C") designation denotes a ceiling limit, which should not be exceeded during any part of the working exposure unless otherwise noted. A Short Term Exposure Limit (STEL) is defined as a 15-minute exposure, which should not be exceeded at any time during a workday. An Action level (AL) is used by OSHA and NIOSH to express a health or physical hazard. They indicate the level of a harmful or toxic substance/activity, which requires medical surveillance, increased industrial hygiene monitoring, or biological monitoring. Action Levels are generally set at one half of the PEL but the actual level may vary from standard to standard. The intent is to identify a level at which the vast majority of randomly sampled exposures will be below the PEL.
2. Threshold Limit Values (TLV) established by the American Conference of Governmental Industrial Hygienists (ACGIH) are 8-hour TWA concentrations unless otherwise noted. ACGIH TLVs are for guideline purposes only and as such are not legal, regulatory limits for compliance purposes. DSEN – May cause dermal sensitization. This notation is used to indicate the potential for dermal sensitization resulting from the interaction of an absorbed agent and ultraviolet light (i.e. photosensitization). RSEN – May cause respiratory sensitization.
3. The National Institute for Occupational Safety and Health Recommended Exposure Limits (NIOSH-REL)- Compendium of Policy and Statements. NIOSH, Cincinnati, OH (1992). NIOSH is the federal agency designated to conduct research relative to occupational safety and health. As is the case with ACGIH TLVs, NIOSH RELs are for guideline purposes only and as such are not legal, regulatory limits for compliance purposes.
4. The "immediately dangerous to life or health air concentration values (IDLHs)" are used by NIOSH as part of the respirator selection criteria and were first developed in the mid-1970's by NIOSH. The Documentation for Immediately Dangerous to Life or Health Concentrations (IDLHs) is a compilation of the rationale and sources of information used by NIOSH during the original determination of 387 IDLHs and their subsequent review and revision in 1994. Ca is designated as carcinogen.
5. Respirable fraction. The concentration of respirable dust for the application of this limit is to be determined from the fraction passing a size-selector with the characteristics defined in ACGIH 2020 TLVs <sup>®</sup> and BEIs <sup>®</sup> Appendix D, paragraph C.
6. Inhalable fraction. The concentration of inhalable particulate for the application of this TLV is to be determined from the fraction passing a size-selector with the characteristics defined in the ACGIH 2020 TLVs <sup>®</sup> and BEIs <sup>®</sup> (Biological Exposure Indices) Appendix D, paragraph A.

**8(b) Appropriate Engineering Controls:** Local exhaust ventilation should be used to control the emission of air contaminants. General dilution ventilation may assist with the reduction of air contaminant concentrations. Emergency eye wash stations and deluge safety showers should be available in the work area.

**8(c) Individual Protection Measures:**

- **Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, use only a NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. Concentration in air of the various contaminants determines the extent of respiratory protection needed. Half-face, negative-pressure, air-purifying respirator equipped with P100 filter is acceptable for concentrations up to 10 times the exposure limit. Full-face, negative-pressure, air-purifying respirator equipped with P100 filter is acceptable for concentrations up to 50 times the exposure limit. Protection by air-purifying negative-pressure and powered air respirators is limited. Use a positive-pressure-demand, full-face, supplied air respirator or self-contained breathing apparatus (SCBA) for concentrations above 50 times the exposure limit. If exposure is above the IDLH (immediately dangerous to life or health) for any of the constituents, or there is a possibility of an uncontrolled release or exposure levels are unknown, then use a positive-demand, full-face, supplied air respirator with escape bottle or SCBA.

**Warning!** Air-purifying respirators both negative-pressure and powered-air do not protect workers in oxygen-deficient atmospheres.

- **Eyes:** Wear eye protection/face protection. For molten iron or the generation of airborne particulates, use safety glasses to prevent eye contact as required. A face shield should be used when appropriate to prevent contact with splashed materials.
- **Skin:** Wear protective gloves. For molten iron or the generation of airborne particulates, use protective clothing to prevent skin contact. Take off contaminated clothing and wash before reuse.
- **Other protective equipment:** An eyewash fountain and deluge shower should be readily available in the work area.

**Section 9 - Physical and Chemical Properties**

<b>9(a) Appearance (physical state, color, etc.):</b> Solid (lump or granular)	<b>9(j) Upper/Lower Flammability or Explosive Limits:</b> NA
<b>9(b) Odor:</b> NA	<b>9(k) Vapor Pressure:</b> NA
<b>9(c) Odor Threshold:</b> NA	<b>9(l) Vapor Density (Air = 1):</b> NA
<b>9(d) pH:</b> NA	<b>9(m) Relative Density:</b> NA
<b>9(e) Melting Point/Freezing Point:</b> ND	<b>9(n) Solubility(ies):</b> Mostly Insoluble

**Section 9 - Physical and Chemical Properties (continued)**

<p><b>9(f) Initial Boiling Point and Boiling Range:</b> NA</p> <p><b>9(g) Flash Point:</b> NA</p> <p><b>9(h) Evaporation Rate:</b> NA</p> <p><b>9(i) Flammability (solid, gas):</b> Not flammable</p> <p>NA - Not Applicable ND - Not Determined for product as a whole</p>	<p><b>9(o) Partition Coefficient n-octanol/water:</b> NA</p> <p><b>9(p) Auto-ignition Temperature:</b> ND</p> <p><b>9(q) Decomposition Temperature:</b> ND</p> <p><b>9(r) Viscosity:</b> ND</p>
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**Section 10 - Stability and Reactivity**

**10(a) Reactivity:** Not Determined (ND)

**10(b) Chemical Stability:** **B-Scrap** is stable under normal storage and handling conditions.

**10(c) Possibility of Hazardous Reaction:** None Known





**10(d) Conditions to Avoid:** Storage with strong acids or calcium hypochlorite.

**10(e) Incompatible Materials:** Iron oxide dusts in contact with calcium hypochlorite evolve oxygen and may cause an explosion.

**10(f) Hazardous Decomposition Products:** Thermal oxidative decomposition can produce fumes containing oxides of iron and manganese as well as other alloying elements.

**Section 11 - Toxicological Information**

**11(a-e) Information on Toxicological Effects:** The following toxicity data has been determined for **B-Scrap** by using the information available for its components applied to the guidance on the preparation of an SDS under the GHS requirements of OSHA and the EU CPL:

Hazard Classification	Hazard Category		Hazard Symbols	Signal Word	Hazard Statement
	EU	OSHA			
<b>Acute Toxicity Hazard</b> (covers Categories 1-4)	NR	4 <sup>a</sup>		<b>Warning</b>	Harmful if swallowed.
<b>Skin Irritation</b> (covers Categories 1A, 1B, 1C, and 2)	1B	1B <sup>b</sup>		<b>Danger</b>	Causes severe skin burns and eye damage.
<b>Eye Damage/Irritation</b> (covers Categories 1, 2A and 2B)	NR	1 <sup>c</sup>		<b>Danger</b>	Causes serious eye damage.
<b>Specific Target Organ Toxicity (STOT) Following Single Exposure</b> (covers Categories 1-3)	3	3 <sup>i</sup>		<b>Warning</b>	May cause respiratory irritation.

\* NR Not Rated - Available data does not meet criteria for classification.

The Toxicological data listed below are presented regardless to classification criteria. Individual hazard classification categories where the toxicological information has met or exceeded a classification criteria threshold are listed above.

- a. No LC<sub>50</sub> or LD<sub>50</sub> has been established for **B-Scrap**. The following data has been determined for the components:
  - **Iron:** Rat LD<sub>50</sub> =98.6 g/kg (REACH)  
 Rat LD<sub>50</sub> =1060 mg/kg (IUCLID)  
 Rat LD<sub>50</sub> =984 mg/kg (IUCLID)  
 Rabbit LD<sub>50</sub> =890 mg/kg (IUCLID)  
 Guinea Pig LD<sub>50</sub> =20 g/kg (TOXNET)
- b. No Skin (Dermal) Irritation data available for **B-Scrap** as a mixture. The following Skin (Dermal) Irritation data has been determined for the components:
  - **Magnesium Dioxide:** Severe skin irritant in human (HSDB).
- c. No Eye Irritation data available for **B-Scrap** as a mixture. The following Eye Irritation information was found for the components:
  - **Iron:** Causes eye irritation.
  - **Magnesium dioxide:** Severe eye irritant in human (HSDB).
- d. No Skin (Dermal)/Respiratory Sensitization data available for **B-Scrap** as a mixture or its individual components.
- e. No Aspiration Hazard data available for **B-Scrap** as a mixture or its individual components.
- f. No Germ Cell Mutagenicity data available for **B-Scrap** as a mixture. The following Germ Cell Mutagenicity information was found for the components:
  - **Iron:** IUCLID has found some positive and negative findings in vitro.

**Section 11 - Toxicological Information (continued)**

**11(a-e) Information on Toxicological Effects (continued):**

g. Carcinogenicity: IARC, NTP, and OSHA do not list **B-Scrap** as carcinogens. The following Carcinogenicity information was found for the components:

- **Iron Oxide (Fe<sub>2</sub>O<sub>3</sub>):** IARC-3, unclassifiable as to carcinogenicity in humans; ACGIH TLV-A4, not classifiable as a human carcinogen
- **Magnesium (oxide):** ACGIH TLV-A4, not classifiable as a human carcinogen

h. No Toxic Reproduction data available for **B-Scrap** as a mixture or its individual components.

i. No Specific Target Organ Toxicity (STOT) following a Single Exposure data available for **B-Scrap** as a mixture. The following STOT following a Single Exposure data was found for the components:

- **Iron:** Irritating to respiratory tract.

j. No Specific Target Organ Toxicity (STOT) following Repeated Exposure data was available for **B-Scrap** as a whole. The following STOT following Repeated Exposure data was found for the components:

- **Iron Oxide:** Some pulmonary and lung effects reported.

The above toxicity information was determined from available scientific sources to illustrate the prevailing posture of the scientific community. The scientific resources includes: The American Conference of Governmental Industrial Hygienist (ACGIH) Documentation of the Threshold Limit Values (TLVs) and Biological Exposure indices (BEIs) with Other Worldwide Occupational Exposure Values 2020, The International Agency for Research on Cancer (IARC), The National Toxicology Program (NTP) updated documentation, the World Health Organization (WHO) and other available resources, the International Uniform Chemical Information Database (IUCLID), European Union Risk Assessment Report (EU-RAR), Concise International Chemical Assessment Documents (CICAD), European Union Scientific Committee for Occupational Exposure Limits (EU-SCOEL), Agency for Toxic Substances and Disease Registry (ATSDR), Hazardous Substance Data Bank (HSDB), and International Programme on Chemical Safety (IPCS).

The following health hazard information is provided regardless to classification criteria and is based on the individual component(s):

**Acute Effects by Component:**

- **IRON AND IRON OXIDE:** Iron is harmful if swallowed, causes skin irritation, and causes eye irritation. Contact with iron oxide has been reported to cause skin irritation and serious eye damage.
- **METALLIC SILICATES:** Calcium Magnesium Silicate may cause mild skin, eye and respiratory irritation. Calcium Aluminate is severely irritating or corrosive to the eyes and skin. May cause allergic dermatitis.
- **MAGNESIUM OXIDE:** Not Reported/ Not Classified.

**Delayed (chronic) Effects by Component:**

- **IRON AND IRON OXIDES:** Chronic inhalation of excessive concentrations of iron oxide fumes or dusts may result in the development of a benign pneumoconiosis, called siderosis, which is observable as an X-ray change. No physical impairment of lung function has been associated with siderosis. Inhalation of excessive concentrations of ferric oxide may enhance the risk of lung cancer development in workers exposed to pulmonary carcinogens. Iron oxide is listed as a Group 3 (not classifiable) carcinogen by the International Agency for Research on Cancer (IARC).
- **METALLIC SILICATES:** Calcium Aluminate may irritate the upper respiratory system.
- **MAGNESIUM OXIDE:** Irritation of eyes, nose, and throat. Symptoms may include dryness of nose and mouth, cough, feeling of weakness, tightness of chest, muscular pain, chills, fever, headache, nausea, and vomiting.

**Section 12 - Ecological Information**

**12(a) Ecotoxicity (aquatic & terrestrial):** No data available for the product, **B-Scrap** as a whole. However, individual components of the product have been found to be toxic to the environment. Dusts may migrate into soil and groundwater and be ingested by wildlife as follows:

- **Iron Oxide:** LC<sub>50</sub>: >1000 mg/L; Fish

**12(b) Persistence & Degradability:** No Data Available

**12(c) Bioaccumulative Potential:** No Data Available

**12(d) Mobility (in soil):** No Data Available

**12(e) Other Adverse Effects:** None Known

**Additional Information:**

**Hazard Category:** No Category

**Signal Word:** No Signal Word

**Hazard Symbol:** No Hazard Symbol

**Hazard Statement:** No Hazard Statement

**Section 13 - Disposal Considerations**

**Disposal:** Dispose of contents/container in accordance with local/regional/international regulations.

**Container Cleaning and Disposal:** Follow applicable federal, state and local regulations. Observe safe handling precautions. European Waste Catalogue 16-01-17 (ferrous metals), 12-01-99 (wastes not otherwise specified), 16-03 (off specification batches and unused products).

**Please note this information is for B-Scrap in its original form. Any alterations can void this information.**

## B-Scrap

USS IHS No.: 75094

Rev. 09/20

### Section 14 - Transport Information

**14 (a-g) Transportation Information:**

US Department of Transportation (DOT) under 49 CFR 172.101 does not regulate **B-Scrap** as a hazardous material. All federal, state, and local laws and regulations that apply to the transport of this type of material must be adhered to.

<b>Shipping Name:</b> B-Scrap <b>Shipping Symbols:</b> NA <b>Hazard Class:</b> NA <b>UN No.:</b> NA <b>Packing Group:</b> NA <b>DOT/ IMO Label:</b> NA <b>Special Provisions (172.102):</b> NA	<b>Packaging Authorizations:</b> a) <b>Exceptions:</b> NA b) <b>Non-bulk:</b> NA c) <b>Bulk:</b> NA	<b>Quantity Limitations:</b> a) <b>Passenger Aircraft or Rail:</b> NA b) <b>Cargo Aircraft Only:</b> NA  <b>Vessel Stowage Location:</b> NA  <b>DOT reportable quantities:</b> NA
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**International Maritime Dangerous Goods (IMDG) and the Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID)** classification, packaging and shipping requirements follow the US DOT Hazardous Materials Regulation.

**Regulations Concerning the International Carriage of Dangerous Goods by Road (ADR)** does not regulate **B-Scrap** as a hazardous material.

<b>Shipping Name:</b> B-Scrap <b>Classification Code:</b> NA <b>UN No.:</b> NA <b>Packing Group:</b> NA <b>ADR Label:</b> NA <b>Special Provisions:</b> NA <b>Limited Quantities:</b> NA	<b>Packaging:</b> a) <b>Packing Instructions:</b> NA b) <b>Special Packing Provisions:</b> NA c) <b>Mixed Packing Provisions:</b> NA	<b>Portable Tanks &amp; Bulk Containers:</b> a) <b>Instructions:</b> NA b) <b>Special Provisions:</b> NA
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**International Air Transport Association (IATA)** does not regulate **B-Scrap** as a hazardous material.

<b>Shipping Name:</b> C - Scrap <b>Class/Division:</b> NA <b>Hazard Label (s):</b> NA <b>UN No.:</b> NA <b>Packing Group:</b> NA <b>Excepted Quantities (EQ):</b> NA	<b>Passenger &amp; Cargo Aircraft</b>		<b>Cargo Aircraft Only:</b> Pkg Inst: NA  Max Net Qty/Pkg: NA	<b>Special Provisions:</b> NA  <b>ERG Code:</b> NA
	<b>Limited Quantity (EQ)</b>			
	<b>Pkg Inst:</b> NA  <b>Max Net Qty/Pkg:</b> NA	<b>Pkg Inst:</b> NA  <b>Max Net Qty/Pkg:</b> NA		

Pkg Inst – Packing Instructions

Max Net Qty/Pkg – Maximum Net Quantity per Package

ERG – Emergency Response Drill Code

**B-Scrap** does not have a **Transport Dangerous Goods (TDG)** classification.

### Section 15 - Regulatory Information

**Regulatory Information:** *The following listing of regulations relating to a U. S. Steel product may not be complete and should not be solely relied upon for all regulatory compliance responsibilities.* This product and/or its constituents are subject to the following regulations:

**SARA Potential Hazard Categories:** Immediate Acute Health Hazard, Delayed Chronic Health Hazard.

**Section 313 Supplier Notification:** This product does not contain any of the toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

**State Regulations:** The product, **B-Scrap** as a whole is not listed in any state regulations. However, individual components of the product are listed in various state regulations:

California Prop. 65: This product, **B-Scrap** does not contain chemicals which is known to the State of California to cause cancer or reproductive toxicity. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Other Regulations:**

**WHMIS Classification (Canadian):** The product, **B-Scrap** is not listed as a whole. However individual components are listed.

Ingredients	WHMIS Classification
Iron	Combustible dusts - Category 1 (may form combustible dust concentrations in air)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

### Section 16 - Other Information

**Prepared By:** United States Steel Corporation

**Revision History:**

09/27/2020 – Update to sections 2, 8, 11, 15

06/21/2017 – Update WHMIS 2015

06/12/2014 - Update to OSHA HAZ COM 2012

**Expiration Date:** 09/27/2023

04/08/2011 - Original

**Section 16 - Other Information (continued)**

**Additional Information:**

**Hazardous Material Identification System (HMIS) Classification**

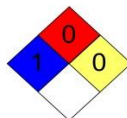
<b>Health Hazard</b>	<b>1</b>
<b>Fire Hazard</b>	<b>0</b>
<b>Physical Hazard</b>	<b>0</b>

HEALTH= 1, \* Denotes possible chronic hazard if airborne dusts or fumes are generated Irritation or minor reversible injury possible.

FIRE= 0, Materials that will not burn.

PHYSICAL HAZARDS = 0, Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.

**National Fire Protection Association (NFPA)**



HEALTH = 1, Exposure could cause irritation but only minor residual injury even if no treatment is given.

FIRE = 0, Materials that will not burn.

INSTABILITY = 0, Normally stable, even under fire exposure conditions, and are not reactive with water.

**ABBREVIATIONS/ACRONYMS:**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	<b>NIF</b>	No Information Found
<b>BEIs</b>	Biological Exposure Indices	<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>CAS</b>	Chemical Abstracts Service	<b>NTP</b>	National Toxicology Program
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation, and Liability Act	<b>ORC</b>	Organization Resources Counselors
<b>CFR</b>	Code of Federal Regulations	<b>OSHA</b>	Occupational Safety and Health Administration
<b>CNS</b>	Central Nervous System	<b>PEL</b>	Permissible Exposure Limit
<b>GI, GIT</b>	Gastro-Intestinal, Gastro-Intestinal Tract	<b>PNOR</b>	Particulate Not Otherwise Regulated
<b>HMIS</b>	Hazardous Materials Identification System	<b>PNOC</b>	Particulate Not Otherwise Classified
<b>IARC</b>	International Agency for Research on Cancer	<b>PPE</b>	Personal Protective Equipment
<b>LC50</b>	Median Lethal Concentration	<b>ppm</b>	parts per million
<b>LD50</b>	Median Lethal Dose	<b>RCRA</b>	Resource Conservation and Recovery Act
<b>LD<sub>Lo</sub></b>	Lowest Dose to have killed animals or humans	<b>RTECS</b>	Registry of Toxic Effects of Chemical Substances
<b>LEL</b>	Lower Explosive Limit	<b>SARA</b>	Superfund Amendment and Reauthorization Act
<b>µg/m<sup>3</sup></b>	microgram per cubic meter of air	<b>SCBA</b>	Self-contained Breathing Apparatus
<b>mg/m<sup>3</sup></b>	milligram per cubic meter of air	<b>STEL</b>	Short-term Exposure Limit
<b>mppcf</b>	million particles per cubic foot	<b>TLV</b>	Threshold Limit Value
<b>SDS</b>	Safety Data Sheet	<b>TWA</b>	Time-weighted Average
<b>MSHA</b>	Mine Safety and Health Administration	<b>UEL</b>	Upper Explosive Limit
<b>NFPA</b>	National Fire Protection Association		

**Disclaimer:** This information is taken from sources or based upon data believed to be reliable. However, United States Steel Corporation makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.