

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Use of the substance/mixture

Product form : Mixture

Product name : Alloy Steel Leaded Grades

1.2. Relevant identified uses of the substance or mixture and uses advised against

: Automotive & Machine Components Multiple Industrial Uses

1.3. Details of the supplier of the safety data sheet

Republic Steel 2633 Eighth Street NE Canton, Ohio 44704 Fax 330-438-5423 Phone 330-438-5466

http://www.republicsteel.com/

1.4. Emergency telephone number

Emergency number : 24 hr. Emergency Contact : Republic Steel

U.S.A. 330.438.5466

International +1.330.438.5466

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Acute Tox. 4 (Oral) H302 Skin Sens. 1 H317 Carc. 1B H350 STOT RE 1 H372

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H350 - May cause cancer

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P260 - Do not breathe dust/fume

P264 - Wash hands and other exposed areas thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P312 - If swallowed: Call a poison center/doctor if you feel unwell

P302 + P352 - If on skin: Wash with plenty of water

P308 + P313 - If exposed or concerned: Get medical advice/attention P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

2.3. Other hazards

Steel products in the solid state present no fire or explosion hazard; however, the particulates generated may present a dust explosion hazard. Steel products in the natural state do not present an inhalation, ingestion or contact hazard. However, operations such as burning, welding, sawing, brazing, and grinding may result in exposures.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.4. Unknown acute toxicity (GHS-US)

None of the ingredients are of unknown toxicity.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable – this product is a mixture.

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Iron	(CAS No) 7439-89-6	86 - 99	Acute Tox. 4 (Oral), H302
Nickel	(CAS No) 7440-02-0	0.01 - 4	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372
Chromium	(CAS No) 7440-47-3	0.01 - 3.5	Not classified
Manganese	(CAS No) 7439-96-5	0.2 - 2.5	Not classified
Copper	(CAS No) 7440-50-8	0.01 - 1	Not classified
Lead	(CAS No) 7439-92-1	0.15 - 0.35	Carc. 1B, H350

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get

by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON

CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Steel products in the solid state present no fire or explosion hazard; however, the particulates

generated may present a dust explosion hazard.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering

environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away

from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor. Do not breathe dust/fume.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas

thoroughly after handling. Contaminated work clothing should not be allowed out of the

workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, well ventilated place.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Appropriate protective equipment should be worn when burning or welding this product. Gloves should be considered when handling material to prevent cuts and skin irritation. Approved eye protection is recommended for operations involving burning, grinding, brazing, welding, or machining.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Alloy Steel Leaded Grades			
ACGIH	Not applicable	Not applicable	
OSHA	Not applicable	Not applicable	
Manganese (7439-96	-5)		
ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³	
OSHA	OSHA PEL (Ceiling) (mg/m³)	5 mg/m³	
Iron (7439-89-6)			
ACGIH	Not applicable		
OSHA	Not applicable		
Chromium (7440-47-3	3)		
ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³	
OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³	
Copper (7440-50-8)			
ACGIH	ACGIH TWA (mg/m³)	0.2 mg/m³	
OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³	
Lead (7439-92-1)			
ACGIH	ACGIH TWA (mg/m³)	0.05 mg/m³	
OSHA	OSHA PEL (TWA) (mg/m³)	50 μg/m³	
Nickel (7440-02-0)			
ACGIH	ACGIH TWA (mg/m³)	1.5 mg/m³	
OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : If processing of this product generates particulates, local and general ventilation may be

necessary to control employee exposures to within applicable limits. If the exposure limits indicated are exceeded, NIOSH approved respirators for protection against dust and/or fume

should be worn in accordance with 29 CFR 1910.134.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Metal.
Color : Gray
Odor : odorless

Odor threshold : No data available рΗ No data available 1316 - 1537 °C Melting point Freezing point No data available Boiling point No data available Flash point : No data available No data available Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) No data available **Explosion limits** : No data available No data available Explosive properties Oxidizing properties : No data available Vapor pressure : No data available

Relative density : 7.5 - 8.5

Relative vapor density at 20 °C : No data available

Log Pow : No data available
Log Kow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

None

10.5. Incompatible materials

Strong acids. Strong bases.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Alloy Steel Leaded Grades	
ATE US (oral)	993.939 mg/kg body weight
Iron (7439-89-6)	
LD50 oral rat	984 mg/kg
ATE US (oral)	984.000 mg/kg body weight

Nickel (7440-02-0)	
LD50 oral rat	> 9000 mg/kg
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : May cause cancer.

Chromium (7440-47-3)	
IARC group 3 - Not classifiable	
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Lead (7439-92-1)	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

Nickel (7440-02-0)	
2B - Possibly carcinogenic to humans	
3 - Reasonably anticipated to be Human Carcinogen	
Yes	

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure. causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential Adverse human health effects and : Based on available data, the classification criteria are not met. Harmful if swallowed. symptoms

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

Copper (7440-50-8)	
LC50 fish 1	0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 other aquatic organisms 1	0.0426 - 0.0535 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
LC50 fish 2	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 other aquatic organisms 2	0.031 - 0.054 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Lead (7439-92-1)		
LC50 fish 1	0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])	
EC50 Daphnia 1	600 μg/l (Exposure time: 48 h - Species: water flea)	
LC50 fish 2	1.17 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])	
Nickel (7440-02-0)		
LC50 fish 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)	
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 other aquatic organisms 1	0.18 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)	
LC50 fish 2	1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])	
EC50 Daphnia 2	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
EC50 other aquatic organisms 2	0.174 - 0.311 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])	

12.2. Persistence and degradability

Alloy Steel Leaded Grades	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Alloy Steel Leaded Grades	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local, state and federal regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Alloy Steel Leaded Grades	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
Manganese (7439-96-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	1.0% deminimis

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313		
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No deminimis		
Nickel (7440-02-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313		
0.1% deminimis		

15.2. International regulations

CANADA

Manganese (7439-96-5)				
Listed on the Canadian DSL (Domestic Sustances List)				
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects			
Iron (7439-89-6)				
Listed on the Canadian DSL (Domestic Sustance	s List)			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Chromium (7440-47-3)				
Listed on the Canadian DSL (Domestic Sustance	s List)			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Copper (7440-50-8)				
Listed on the Canadian DSL (Domestic Sustances List)				
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Lead (7439-92-1)				
Listed on the Canadian DSL (Domestic Sustance	s List)			
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects			
Nickel (7440-02-0)				
Listed on the Canadian DSL (Domestic Sustances List)				
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects			

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EU-Regulations		
Manganese (7439-96-5)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
Iron (7439-89-6)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
Chromium (7440-47-3)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
Copper (7440-50-8)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
Lead (7439-92-1)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
Nickel (7440-02-0)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

National regulations

Manganese (7439-96-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Iron (7439-89-6)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Chromium (7440-47-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Copper (7440-50-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

Lead (7439-92-1)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Nickel (7440-02-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

Lead (7439-92-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	Yes	Yes	Yes	15 μg/day

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Nickel (7440-02-0)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

SECTION 16: Other information

Other information

: Steel products may be coated with petroleum oils to meet customer specifications. Information relative to specific coatings may be obtained from Republic Steel. Republic's steel products undergo close scrutiny in the steel manufacturing process to ensure they are free of any radioactive contamination. First, our purchasing specifications prohibit any foreign, radioactive articles and if any are detected at our truck/rail gate detectors, they are returned to the scrap supplier in accord with DOT requirements.

Full text of H-phrases:

Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4 Carc. 1B Carc. 2 Carcinogenicity Category 1B Carc. 2 Skin Sens. 1 STOT RE 1 H302 Harmful if swallowed H317 May cause an allergic skin reaction H350 May cause cancer H351 Suspected of causing cancer H372 Acute toxicity (oral) Category 4 Carcinogenicity Category 1 Skin sensitization Category 2 Skin sensitization Category 1 Specific target organ toxicity (repeated exposure) Category 1 Harmful if swallowed May cause an allergic skin reaction May cause cancer Causes damage to organs through prolonged or repeated exposure	and the princess.	
Carc. 2 Skin Sens. 1 Skin sensitization Category 1 STOT RE 1 H302 Harmful if swallowed H317 May cause an allergic skin reaction H350 May cause cancer H351 Carcinogenicity Category 2 Skin sensitization Category 1 Specific target organ toxicity (repeated exposure) Category 1 Harmful if swallowed May cause an allergic skin reaction May cause cancer Suspected of causing cancer	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Skin Sens. 1 Skin sensitization Category 1 STOT RE 1 Specific target organ toxicity (repeated exposure) Category 1 H302 Harmful if swallowed H317 May cause an allergic skin reaction H350 May cause cancer H351 Suspected of causing cancer	Carc. 1B	Carcinogenicity Category 1B
STOT RE 1 Specific target organ toxicity (repeated exposure) Category 1 H302 Harmful if swallowed H317 May cause an allergic skin reaction H350 May cause cancer H351 Suspected of causing cancer	Carc. 2	Carcinogenicity Category 2
H302 Harmful if swallowed H317 May cause an allergic skin reaction H350 May cause cancer H351 Suspected of causing cancer	Skin Sens. 1	Skin sensitization Category 1
H317 May cause an allergic skin reaction H350 May cause cancer H351 Suspected of causing cancer	STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H350 May cause cancer H351 Suspected of causing cancer	H302	Harmful if swallowed
H351 Suspected of causing cancer	H317	May cause an allergic skin reaction
	H350	May cause cancer
H372 Causes damage to organs through prolonged or repeated exposure	H351	Suspected of causing cancer
	H372	Causes damage to organs through prolonged or repeated exposure

SDS US (GHS HazCom 2012)

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