



AbrasiveMaterials

SAFETY DATA SHEET CARBON STEEL CUT WIRE

Revision Date: 12/1/2021
Language: en-US
Date of print: 11/19/2025
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1. Product and company identification

Product Identifier:

Trade Name: CARBON STEEL CUT WIRE (AISI 1002 - 1095 HARD DRAWN)

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

General use: As a blasting agent
For industrial purposes only

Details of the supplier of the safety data sheet

Company name: ABRASIVE MATERIALS
Street: 7253 Tower Road
City/State: Battle Creek, MI 49014
Website: www.ABRASIVEMATERIALS.COM
Telephone: 517-437-4268
Email: orders@abrasivematerials.com

Emergency phone number

Telephone: 517-437-4268

2. Hazards identification

Emergency overview

Appearance: Form: Solid, powder
Color: Metallic gray

Odor: Odorless

Classification: Sensitization - skin (fume or dust)

Hazard statement: May cause an allergic skin reaction

Precautionary statements: Obtain special instructions before use
Avoid breathing dust/fume/mist
Wear protective gloves/protective clothing/eye protection
IF ON SKIN: Wash with plenty of water/soap
IF exposed or concerned: Get medical advice/attention

Hazards not otherwise classified

Vapors /Dust should be exhausted directly at the point of origin
Particular danger of slipping on spilled product on the ground
see section 11: Toxicological information

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3. Composition/information on ingredients

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 7439-89-6	Iron	95 - 99%	not applicable
CAS 7440-44-0	Carbon	.01 - 1.1%	not applicable
CAS 7439-96-5	Manganese	0.25 - 1.65%	not applicable
CAS 7723-14-0	Phosphorus	0.0 - 0.04%	not applicable
CAS 7440-21-3	Silicon	0.0 - 1.6%	not applicable
CAS 7704-34-9	Sulphur	0.0 - 0.035%	not applicable

4. First aid measures

In case of inhalation: Remove the casualty into fresh air and keep him calm
Seek medical treatment in case of troubles

Following skin contact: Immediately clean with water and soap followed by thorough rinsing
In cas of skin irritation, consult a physician

After eye contact: Immediately flush eyes with plenty of flowing water for 0 to 15 minutes holding eyelids apart. Consult an ophthalmologist

After swallowing: Rinse mouth with water. Consult physician
Never give anything by mouth to an unconscious person

Most important symptoms/effects, acute and delayed
My cause delayed chronic health hazard

Information to physician
Treat symptomatically

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5. Fire fighting measures

Flash point/flash point range:

no data available

Auto-ignition temperature

not self-igniting

Suitable extinguishing media:

Use suitable extinguishing media for surrounding material and type of fire

Extinguishing media which must not be used for safety reasons

Water

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Can be released in case of fire:

Toxic metal oxide smoke

Protective Equipment and precautions for firefighters:

Wear a full face, self-contained breathing apparatus and chemical protective clothing

Additional information:

Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

You have to dispose of contaminated extinguishing water according to the regulations of the authorities

6. Accidental release measures

Personal precautions:

Avoid exposure. Provide adequate ventilation. Avoid generation of dust.
Do not breathe dust. Wear protective equipment.
Avoid contact with skin and eyes.

Environmental precautions:

Discharge into the environment must be avoided.

Methods for clean-up:

Take up mechanically. Dispose of in accordance with the regulations or material recycling. Do not use air pressure.

Additional information:

Particular danger of slipping on spilled product on the ground.

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7. Handling and storage
Handling

Advice on safe handling:

Avoid exposure - obtain special instructions before use.
 Provide adequate ventilation, and local exhaust as needed
 Vapors / Dust should be exhausted directly at the point of origin
 Do not breathe dust. Wear protective equipment.
 Avoid contact with skin and eyes

Storage

Requirements for storerooms and containers:

Keep container dry

Hints for joint storage:

Maintain air gap between stacks/pallets
 Keep away from food, drink and animal feeding stuffs
 Do not store together with acids

8. Exposure controls / personal protection
Exposure guidelines:

Occupational exposure limit values:

CAS No.	Designation		Type	Limit value
7439-89-6	Iron	USA	ACGIH TWA	10 mg/m ³ smoke, dust
		USA	OSHA TWA	10 mg/m ³
7440-44-0	Carbon	USA	OSHA TWA	15 mg/m ³ inhalable fraction
		USA	OSHA TWA	5 mg/m ³ respirable fraction
7439-96-5	Manganese	OSHA: Ceiling		5 mg/m ³
		USA	ACGIH TWA	0.02 mg/m ³ respirable fraction
		USA	ACGIH TWA	0.1 mg/m ³ inhalable fraction
		USA	NIOSH STEL	3 mg/m ³
		USA	NIOSH TWA	1 mg/m ³
7723-14-0	Phosphorus	USA	ACGIH TWA	0.1 mg/m ³
7440-21-3	Silicon	USA	NIOSH TWA	5 mg/m ³ inhalable fraction
		USA	NIOSH TWA	5 mg/m ³ respirable fraction
		USA	OSHA TWA	15 mg/m ³ inhalable fraction
		USA	OSHA TWA	5 mg/m ³ respirable fraction
7704-34-9	Sulfur	USA	ACGIH TWA	13mg/m ³ , sulfur dioxide

Additional information :

Limiting values are only defined for the above-mentioned material, whereas no such limits have been established for alloys made out of it.



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Engineering controls

Provide adequate ventilation, and local exhaust as needed.
Vapors / Dust should be exhausted directly at the point of origin.

Personal protection equipment (PPE)

Eye/face protection	Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010
Skin protection	Wear suitable protective clothing Protective gloves according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010
Respiratory protection	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Use filter type FFP2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2
General hygiene considerations	Obtain special instructions before use When using do not eat, drink or smoke Do not breathe dust. Avoid contact with the substance. Wash hands before breaks and after work. Eye wash facility must be provided

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Form: Solid, powder Color: Metallic gray
Odor	Odorless
Odor threshold	N/A
PH Value	N/A
Melting point/freezing point	2500-2650 degrees F
Initial boiling point and boiling range	no data available
Flash point/flash point range	no data available
Evaporation rate	no data available
Flammability	no data available
Explosion limits	no data available
Vapor pressure	no data available
Vapor density	no data available
Water solubility	insoluble
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	not self-igniting
Thermal decomposition	no data available

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10. Stability and reactivity

Reactivity	With exposure to acids, product will release hydrogen
Chemical stability	Product is stable under normal storage conditions
Possibility of hazardous reactions	No hazardous reactions known
Conditions to avoid	Avoid creating or accumulating fines or dust
Incompatible materials	Acids
Hazardous decomposition products	Can be released in case of fire: Toxic metal oxide smoke
Thermal decomposition	No data available

11. Toxicological information
Toxicological tests

Toxicological effects	Acute toxicity (oral)	Lack of data
	Acute toxicity (dermal)	Lack of data
	Acute toxicity (inhalative)	Lack of data
	Skin corrosion/irritation	Lack of data
	Eye damage/irritation	Lack of data
	Sensitisation to the respiratory tract	Lack of data
	Skin sensitization:	Category 1 = Possible allergic skin reaction (dust/fume)
	Germ cell mutagenicity/Genotoxicity:	Lack of data
	Carcinogenicity:	Lack of data
	Reproductive toxicity:	Lack of data
	Effects on or via lactation	Lack of data
	Specific target organ toxicity (single exposure)	Lack of data
	Specific target organ toxicity (repeated exposure)	Lack of data
	Aspiration hazard	Lack of data

12. Ecological information

Ecotoxicity	No data available
Mobility in soil	No data available
Persistence and degradability	Methods for the determination of biodegradability are not applicable to inorganic substance
Additional ecological information	Discharge into the environment must be avoided



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13. Disposal considerations

Product	Material recycling
Contaminated packaging	Non-contaminated packages may be recycled Dispose of waste according to applicable legislation

14. Transport information

USA: Department of Transportation (DOT)	Not controlled under DOT
Sea transport (IMDG)	
Proper shipping name	Not restricted
Marine pollutant	No
Air Transport (IATA)	
Proper shipping name	Not restricted
Further information	No dangerous good in sense of these transport regulations

15. Regulatory information

U.S. Federal Regulations

Iron	TSCA Inventory	Listed
	TSCA HPVC	Not Listed
Carbon	TSCA Inventory	Listed
	TSCA HPVC	Not Listed
	NIOSH Recommendations	
	Occupational Health Guideline	0307
Manganese	TSCA Inventory	Listed
	TSCA HPVC	Not Listed
	Other Environmental Laws	
	SARA Title III Section 313	
	Toxic Release: Conc 0.1% / Threshold Standard	
	NIOSH Recommendations	
Phosphorus	Occupational Health Guideline	0379*
	TSCA Inventory	Listed
	TSCA HPVC	Not Listed
	NIOSH Recommendations	
	Occupational Health Guideline	0507
Sulfur	TSCA Inventory	Listed
	TSCA HPVC	Not Listed
	NIOSH Recommendations	
	Occupational Health Guideline	0575



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16. Other information

Text for labeling

Contains < 99.0 % Iron, .45 - .85%, Carbon, .3 - 1.3% Manganese, <.040%Phosphorus, < .050 % Sulphur, .15 - .35% Silicon. Safety Data sheet available on request.

NFPA Hazard Rating

Health	0	Minimal
Fire	0	Minimal
Reactivity	0	Minimal

HMIS Version III Rating

Health	0	Minimal
Flammability	0	Minimal
Physical Hazard	0	Minimal
Personal Protection	X	Consult your supervisor

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision.
It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.