

# SAFETY DATA SHEET

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**TRADE NAME: Carbon Weld / Carbon Beam 35/150**

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

### 1.1 Product identifier

<b>Product name</b>	Carbon Weld / Carbon Beam 35/150
<b>Synonyms</b>	n/a
<b>Chemical family</b>	carbon fiber
<b>Product description</b>	continuous, chopped or milled carbon fiber

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

**1.2.1 Relevant uses** industrial applications

**1.2.2 Uses advised against** none known

### 1.3 Details of the supplier of the safety data sheet

<b>Company</b>	Carbon Weld / Carbon Beam 35/150, Inc. Carbon Weld / Carbon Beam 35/150, Inc. St. Louis, MO 63063 USA (314) 231-1111 www.carbonweld.com
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**1.4 Emergency telephone number** 800-441-1111

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## SECTION 2: Hazards Identification

### 2.1 Classification of the substance or mixture

**Product definition** article

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

not classified

#### 2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

**Hazard symbols** none

**R-phrases** none

The product does not require a hazard warning label, in accordance with OSHA HazCom and EC-directives

### 2.2 Label elements

#### Labeling according to Regulation 67/548/EEC or 1994/45/EC

**Hazard symbols** none

**R-phrases** none

**S-phrases** none

**Special labeling** not applicable

### 2.3 Other hazards

**Physio-chemical hazards** see SECTION 10  
In the supplied form the product itself is not explosive at all; however, the build-up of fines and dust can lead to a risk of dust explosions.

**Human health dangers** see SECTION 11 and below

**Eye** Dust may cause temporary irritation.

**Skin** Dust may cause mild irritation. In some cases, the dust may cause allergic skin reactions.

**Inhalation** Dust may cause mild irritation.

**Environmental hazards** see SECTION 12

**Other hazards** This product and its dusts are electrically conductive

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## SECTION 3: Composition/information on ingredients

**3.1 Product-type** article

<u>Component</u>	<u>CAS. NO</u>	<u>EINECS/ELINCS</u>	<u>%</u>
Carbon fiber, (carbon) polyacrylonitrile (PAN)-based	308063-67-4 (7440-44-0)	Polymer: 231-153-3	91.0-99.8
Sizing	proprietary	0.0-9.0%	

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information** not applicable

**Inhalation** Remove from the area of the dust to fresh air. Seek medical attention if you feel unwell.

**Skin contact** Wash affected areas thoroughly with soap and water.

**Eye contact** Flush eyes with water for 15 minutes.

**Ingestion** In the event of deliberate ingestion, do not induce vomiting unless directed to do so by consulting with a doctor.

### 4.2 Most important symptoms and effects, both acute and displayed

no data available

### 4.3 Indication of any immediate medical attention and special treatment

no data available

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** normal firefighting media and procedures

**Unsuitable extinguishing media** dependent on processing plant conditions

### 5.2 Special hazards arising from the substance or media

airborne fibers are electrically conductive  
CO<sub>2</sub>, CO and a minute amount of N<sub>2</sub>, HCN and H<sub>2</sub>O

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel not applicable

6.1.2 For emergency responders not applicable

6.2 Environmental precautions not applicable

**6.3 Methods and material for containment and cleaning up**

6.3.1 For containment In case of spill, collect the spilled materials. If the material is not contaminated, put it into a clean container and it can be reused. Otherwise, dispose of it properly.

6.3.2 For cleaning up Because the dust is electrically conductive and may become airborne, clean up with a vacuum. If an electrical appliance is used, take the steps necessary to avoid the risk of electrical shock.

**SECTION 7: Handling and storage**

7.1 Precautions for safe handling No special measures necessary if used properly.

**7.2 Conditions for safe storage, including any incompatibilities**

Airborne particles and filaments should be controlled so as to minimize skin irritation and electrical shorts in switch gears, etc. due to conductivity of fiber.

Do not store together with oxidizing agents

7.3 Specific end use(s) see section 1.2

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limits**

OSHA and ACGIH (USA) have not established air contamination for carbon fibers. Under certain conditions this substance may be a nuisance dust. OSHA has an established standard for particulates not otherwise regulated (nuisance dust) set at 5 mg/m<sup>3</sup> (respirable fraction) and 15 mg/m<sup>3</sup> (total dust). ACGIH has established an exposure value of 3 mg/m<sup>3</sup> (respirable fraction) and 10 mg/m<sup>3</sup> (total).

NHFPC (PRC) has an established standard for carbon fiber's particulates not otherwise regulated set at 6mg/m<sup>3</sup> ESTL (total dust) and 3mg/m<sup>3</sup> TWA (total dust),

Belgium has established an Occupational Exposure Limit for carbon fiber as 2 fiber/cm<sup>3</sup> TWA.

## 8.2 Exposure controls

**8.2.1 Appropriate engineering controls** local exhaust for airborne fiber removal.

### 8.2.2 Personal protection equipment

**8.2.2.1 Eye and face protection** safety glasses

#### 8.2.2.2 Skin protection

**Hand protection** protective gloves

**Other skin protection** Recommend disposable protective garments to eliminate possible skin irritation.

**8.2.2.3 Respiratory protection** Personal dust respirators applicable if high degree of fiber fly is experienced.

**8.2.2.4 Thermal hazards** not applicable

**8.2.3 Environmental exposure controls** see SECTION 6 & 7

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	black fiber
<b>Odor</b>	odorless
<b>pH</b>	not applicable
<b>Melting point / freezing point</b>	~ 3,500°C
<b>Initial boiling point and boiling range</b>	not applicable
<b>Flashpoint</b>	not applicable
<b>Evaporation rate</b>	not applicable
<b>Flammability (solid, gas)</b>	not applicable
<b>Upper/lower flammability or explosive limits</b>	not applicable
<b>Vapor pressure</b>	not applicable
<b>Vapor density</b>	not applicable
<b>Specific gravity (relative density)</b>	1.81 (H <sub>2</sub> O @ 4°C = 1.00)
<b>Solubility(ies) water</b>	negligible (dispersible)
<b>Partition coefficient n-octanol/water</b>	not applicable
<b>Auto ignition temperature</b>	not applicable



<b>12.3 Bioaccumulative potential</b>	no data available
<b>12.4 Mobility in soil</b>	no data available
<b>12.5 Results of PBT and nPvB assessment</b>	no data available
<b>12.6 Other adverse effects</b>	ecological data not available

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste materials must be disposed of in accordance with the Directive on waste 2008/98/EC and any other applicable national or local regulations.

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**SECTION 14: Transport information**

<b>14.1 UN number</b>	see SECTION 14.2
<b>14.2 UN proper shipping name</b>	not Dangerous Goods ADR/RID (land) ADN (inland navigation) IMDG (marine)
<b>14.3 Transport hazard class(es)</b>	see SECTION 14.2
<b>14.4 Packing group</b>	see SECTION 14.2
<b>14.5 Environmental hazards</b>	see SECTION 14.2
<b>14.6 Special precautions to user</b>	see SECTION 6 to 8
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>	not applicable

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**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>TSCA Status</b>	Exempt - satisfies 'article' definition under 40 CFR 704.3
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<b>15.2 Chemical safety assessment</b>	has not been carried out
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**SECTION 16: Other information**

**Revision date:** 17 March 2016, CN: 1370

**Previous revision:** 5 October 2015, CN: 1336

**Abbreviations and acronyms**

ADN = Accord européen relative au transport international des marchandises dangereuses par voie de navigation intérieure

ADR = Accord européen relative au transport international des marchandises Dangereuses par Route

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

IBC-Code = International Coder for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG = International Maritime Code for Dangerous Goods

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic substance

RID = Règlement concernant le transport international ferroviare de marchandises dangereuses

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