



NUCON International, Inc  
7000 Huntley Road  
Columbus, OH 43229

# SAFETY DATA SHEET

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

## NUSORB<sup>®</sup> CR<sup>™</sup> (Impregnated Activated Carbon)

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

#### 1.1. Product identifier

Product name : NUSORB CR

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

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

Nucon International, Inc.  
7000 Huntley Rd  
Columbus, Ohio 43229  
T (614) 846-5710 - F (614) 431-0858  
[sales@nucon-int.com](mailto:sales@nucon-int.com) - <http://www.nucon-int.com/>

#### 1.4. Emergency telephone number

Emergency number : +1-800-992-5292 extension 124

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Not classified

#### 2.2. Label elements

##### GHS-US labeling

No labeling applicable

#### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions. May form combustible dust concentrations in air.

#### 2.4. Unknown acute toxicity (GHS US)

12 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
12 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
12 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Carbon	(CAS No) 7440-44-0	88 - 100	Not classified
Copper oxide (CuO)	(CAS No) 1317-38-0	0 - 12	Not classified

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Call a POISON CENTER or doctor/physician.  
First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
First-aid measures after skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes. Wash contaminated clothing before reuse.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.



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First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

Symptoms/injuries after skin contact : Slight irritation.

Symptoms/injuries after eye contact : Eye irritation.

Symptoms/injuries after ingestion : MAY BE FATAL IF SWALLOWED. Overexposure may cause stomach cramps, vomiting and cough and may also cause kidney and liver damage. Headache. Damage to central nervous system.

### 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 : Dry powder. Water spray. Foam.

### 5.2. Special hazards arising from the substance or mixture

Explosion hazard : Avoid raising powdered materials into airborne dust, creating an explosion hazard.

### 5.3. Advice for firefighters

Firefighting instructions : Evacuate area. Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : May form combustible dust concentrations in air.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

Protective equipment : Avoid breathing dust.

Emergency procedures : Stop release.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid dust formation. Do not breathe dust.

Precautions for safe handling : No open flames. No smoking. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Avoid contact during pregnancy/while nursing. Use personal protective equipment as required.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.



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- Storage conditions : Keep only in the original container in a cool, well ventilated place away from: moisture.
- Incompatible products : Oxidizing agent.
- Storage area : Store in a well-ventilated place.
- Special rules on packaging : Store in a closed container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Nusorb CR (7440-44-0)	
ACGIH	Not applicable
OSHA	Not applicable
Carbon (7440-44-0)	
ACGIH	Not applicable
OSHA	Not applicable
Copper oxide (CuO) (1317-38-0)	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

- Personal protective equipment : Wash hands thoroughly after handling.
- Eye protection : Chemical goggles or face shield.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
- Consumer exposure controls : Avoid contact during pregnancy/while nursing.
- Other information : Do not breathe dust. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : granular. Pellets/tablets. Powder.
- Color : Black dark gray
- Odor : odorless
- Odor threshold : No data available
- pH : No data available
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapor pressure : No data available



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Relative vapor density at 20 °C : No data available  
Relative density : No data available  
Solubility : insoluble in water.  
Log Pow : No data available  
Log Kow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available.  
Oxidizing properties : No data available.  
Explosion limits : No data available

### 9.2. Other information

VOC content : < 1 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Moisture. Avoid dust formation.

### 10.5. Incompatible materials

Strong oxidizers. Fluorine.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Cupric oxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Carbon (7440-44-0)	
LD50 oral rat	> 10000 mg/kg

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
Specific target organ toxicity (single exposure) : Not classified  
Specific target organ toxicity (repeated exposure) : Not classified  
Aspiration hazard : Not classified  
Potential Adverse human health effects and symptoms : Harmful if swallowed. Harmful if inhaled.



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- Symptoms/injuries after inhalation : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.
- Symptoms/injuries after skin contact : Slight irritation.
- Symptoms/injuries after eye contact : Eye irritation.
- Symptoms/injuries after ingestion : MAY BE FATAL IF SWALLOWED. Overexposure may cause stomach cramps, vomiting and cough and may also cause kidney and liver damage. Headache. Damage to central nervous system.

### SECTION 12: Ecological information

#### 12.1. Toxicity

- Ecology - water : Harmful to aquatic life. Toxic to aquatic life. May cause long lasting harmful effects to aquatic life. Harmful to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life with long lasting effects.

Copper oxide (CuO) (1317-38-0)	
LC50 fish 1	> 56000 mg/l Western mosquitofish
EC50 Daphnia 1	0.011 - 0.039 mg/l

#### 12.2. Persistence and degradability

Carbon (7440-44-0)	
Persistence and degradability	Not established.

Copper oxide (CuO) (1317-38-0)	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

Carbon (7440-44-0)	
Bioaccumulative potential	Not established.

Copper oxide (CuO) (1317-38-0)	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

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

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Waste disposal recommendations : Dispose of contents/container to meet all regulations.

### SECTION 14: Transport information

In accordance with DOT

Not evaluated

#### Additional information

- Other information : No supplementary information available.

#### ADR

No additional information available



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### Transport by sea

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods (IMDG) Code Special Provision 925 for transport by sea; this carbon is made by a steam activation process.

### Air transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations Special Provision A.3 for transport by air; when tested according to the United Nations Transport of Dangerous Goods test protocol this carbon does not meet the definition of a self-heating substance (IATA Class 4.2) or any other hazard class, and therefore should not be listed as a hazardous material.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<b>Carbon (7440-44-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Copper oxide (CuO) (1317-38-0)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

<b>Carbon (7440-44-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Copper oxide (CuO) (1317-38-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

#### EU-Regulations

<b>Carbon (7440-44-0)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Copper oxide (CuO) (1317-38-0)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

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

Not classified

### 15.2.2. National regulations

<b>Carbon (7440-44-0)</b>
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 INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical
<b>Copper oxide (CuO) (1317-38-0)</b>
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)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

### 15.3. US State regulations



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### **SECTION 16: Other information**

GHS US SDS

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*