



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

MERSORB® HT (Impregnated Activated Carbon)

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

1.1. Product identifier

Product name : MERSORB® HT Mercury Adsorbent

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 - <http://www.nucon-int.com/>

1.4. Emergency telephone number

Emergency number : +1-800-992-5192 extension 124

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irrit. 2 H315

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H315 - Causes skin irritation
Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling
P280 - Wear personal protective equipment
P302+P352 - If on skin: Wash with plenty of water
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse

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)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable



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3.2. Mixture

Name	Product identifier	%	GHS-US classification
Carbon	(CAS No) 7440-44-0	90 - 95	Not classified
Sulfur	(CAS No) 7704-34-9	>= 10	Skin Irrit. 2, H315

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.
- 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 : severe skin irritation, redness, dermatitis.
- Symptoms/injuries after eye contact : Causes serious eye irritation.

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. Sulphur component may generate toxic sulphur dioxide which is irritating to the respiratory track.

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. Eliminate ignition sources. Flush spill area with water spray.



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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. Use only non-sparking tools. Eliminate every possible source of ignition. |
| Safe use of the product | : Provide readily accessible eye wash stations and safety showers. |
| 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. |
| 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

Mersorb (7704-34-9)	
ACGIH	Not applicable
OSHA	Not applicable
DNEL	DNEL ≈
Carbon (7440-44-0)	
ACGIH	Not applicable
OSHA	Not applicable
Sulfur (7704-34-9)	
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. |



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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	: 3550 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: 350 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 400 - 600 g/l
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	: 10 % by volume
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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. Peroxides. Oxygen.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.



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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Carbon (7440-44-0)	
LD50 oral rat	> 10000 mg/kg
Sulfur (7704-34-9)	
LD50 oral rat	> 3000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 9.23 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

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.

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 : severe skin irritation, redness, dermatitis.

Symptoms/injuries after eye contact : Causes serious eye irritation.

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.

Sulfur (7704-34-9)	
LC50 fish 1	866 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
LC50 fish 2	< 14 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2. Persistence and degradability

Carbon (7440-44-0)	
Persistence and degradability	Not established.
Sulfur (7704-34-9)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Carbon (7440-44-0)	
Bioaccumulative potential	Not established.
Sulfur (7704-34-9)	
Bioaccumulative potential	Not established.



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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

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Carbon (7440-44-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sulfur (7704-34-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Carbon (7440-44-0)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

Uncontrolled product according to WHMIS classification criteria

Sulfur (7704-34-9)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

Class B Division 4 - Flammable Solid

EU-Regulations

Carbon (7440-44-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Sulfur (7704-34-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)



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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

Carbon (7440-44-0)

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)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

Sulfur (7704-34-9)

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)
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15.3. US State regulations

Sulfur (7704-34-9)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of H-phrases:

----- Skin Irrit. 2
----- H315

Skin corrosion/irritation Category 2
Causes skin irritation

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