



NUCON International, Inc.

NUCON MSDS No. 111
Reviewed September 2004
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MATERIAL SAFETY DATA SHEET

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SECTION 1 NAME

NUSORB ZX (Impregnated activated carbon powder)

SECTION 2 INGREDIENTS	%	TLV (ADGIH)
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Activated carbon (CAS #7440-44-0)		Not listed *
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* Product normally contains Zinc Oxide (CAS #1314-13-2) See Section 8

SECTION 3 PHYSICAL DATA

Boiling point: Not applicable

Vapor Pressure (mmHg at 20°C): zero

Vapor density (air = 1): Not applicable

Solubility: Insoluble in water and organic solvents

pH: Not applicable

Specific gravity: 400 - 600 g/l

% Volatile by volume: < 0.1%

Appearance and odor: Black powder without taste or odor.

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash point (and method): Not applicable

Autoignition temp.: No generally accepted test method available

All carbonaceous materials will burn under certain conditions and activated carbons are no exception. Activated carbons, however, are not highly flammable and burn slowly without producing smoke or flame.

Extinguishing media:

Water (fog or fine spray), carbon dioxide
Avoid methods which may stir up dust clouds.



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SECTION 4 FIRE AND EXPLOSION HAZARD DATA (continued)

Special fire fighting protective equipment:
Self-contained breathing apparatus.

Unusual fire and explosion hazards:
Airborne dust is a weak explosion hazard.

SECTION 5 REACTIVITY DATA

Stability:
Stable under normal conditions.

Incompatibility (materials to avoid):
Strong oxidizing agents, fluorine, strong mineral acids, reactive metals, strong organic acids, copper.

Hazardous decomposition products:
Carbon dioxide, carbon monoxide.

Hazardous polymerization:
Will not occur.

SECTION 6 HEALTH HAZARD ASSESSMENT

Activated Carbon:

General:
No toxicity data are available. **Carcinogenicity:** Activated carbon is not listed in the National Toxicology Program (NTP) Annual report on carcinogens nor has it been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) monographs or by OSHA.

Zinc Oxide:

Effects of Acute Overexposure: For Product

Ingestion:
May be harmful

Eye Contact:
Causes irritation.



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SECTION 6 HEALTH HAZARD ASSESSMENT (continued)

Skin Contact:

May cause irritation.

Skin Absorption:

May be harmful.

Inhalation:

May be harmful.

First aid procedures:

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

SECTION 7 SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Wear respiratory protection during cleanup. Sweep up and recover or mix material with water and shovel into waste container. Wash down spill area with water containing detergent and flush away with plenty of water.

Disposal method:

Dispose of virgin (unused) carbon (waste or spillage) in a facility for non-hazardous materials in accordance with applicable regulations.

Container disposal:

Do not reuse empty containers. Dispose of in facility permitted for non-hazardous waste.

SECTION 8 SPECIAL PROTECTION INFORMATION

Ventilation:

Provide adequate general and local exhaust ventilation to meet suggested control value requirements.

Respiratory protection:

If needed, use MSHA-NIOSH approved respirator for dusts, mists and fumes whose TLV is greater than 0.05 mg/m³.

Protective Clothing:

For personal hygiene purposes use adequate clothing to prevent skin contact.



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SECTION 8 SPECIAL PROTECTION INFORMATION (Continued)

Eye protection:

Safety glasses with side shields.

Contact lenses should not be worn when working with activated carbon.

Other protective equipment:

Eyewash station in work area.

SECTION 9 SPECIAL PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling or storing:

Activated carbon can be safely stored in any normal storage area, but away from sources of direct heat.

An oxygen deficiency may be created when activated carbon is stored in an enclosed space/silo. Ventilate or wear self-contained breathing apparatus.

The information herein is given in good faith but no warranty, expressed or implied, is made.

J. Louis Kovach,
President