

## MATERIAL SAFETY DATA SHEET

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### SECTION 1: NAME

NUSORB KINA (Impregnated coal based carbon)

SECTION 2: INGREDIENTS	%	TLV (ADGIH)
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Activated carbon (CAS 7440-44-0)	95	Not listed *
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\* Product normally contains 2.5 - 4.5% potassium iodide. (CAS 7681-11-0)  
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 granules or powder without taste or odor

### SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash point (and method): Not applicable  
Auto ignition temp.: Powdered - No generally accepted test method available  
Granular - About 350°C (ANSI/ASTM D3466)

All carbonaceous materials will burn under certain conditions and activated carbons are not 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

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Avoid methods which may stir up dust clouds.

### 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. Elemental iodine may be released from burning NUSORB KINA.

### SECTION 5: REACTIVITY DATA

**Stability:**  
Stable under normal conditions.

**Incompatibility (materials to avoid):**  
Strong oxidizing agents, fluorine.

**Hazardous decomposition products:**  
Carbon dioxide, carbon monoxide, elemental iodine.

**Hazardous polymerization:**  
Will not occur.

### SECTION 6: HEALTH HAZARD ASSESSMENT

**General:**

No toxicity data are available. Physical and chemical properties of activated carbon are used for the health hazard assessment. **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.

**Ingestion:**

The acute oral LD<sub>50</sub> values are not available. Relative to other materials, a single dose of this product is relatively harmless by ingestion. Hodge, H. C. and Sterner, J. H., American Industrial Hygiene Association Quarterly, 10:4, 93, Dec. 1949.

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### SECTION 6: HEALTH HAZARD ASSESSMENT (continued)

**Eye Contact:**

This material will probably cause physical irritation if contact is made with human eyes.

**Skin Contact:**

This material is not likely to be a primary irritant on human skin; it has a low potential for sensitization after skin contact.

**Skin Absorption:**

This product is not known to be adsorbed through the human skin.

**Inhalation:**

Acute toxic effects are not likely to develop after inhalation from this material.

**Effect of Overexposure:**

No adverse clinical effects have been associated with exposures to this material.

**First Aid Procedures:**

**Skin:** Wash material off the skin with soap and water. If redness, itching or a burning sensation develops, get medical attention.

**Eyes:** Immediately flush with copious amounts of water. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.

**Ingestion:** Give one or two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person.)

**Inhalation:** Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

### 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 wastes.

**Container disposal:**

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Do not reuse empty bags. 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/m<sup>3</sup>.

**Protective Clothing:**

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

**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.

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

**J. Louis Kovach,**  
President