



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[®] KINA[™] (Impregnated Activated Carbon)

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

1.1. Product identifier

Product name : NUSORB KINA

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
Eye Dam. 1 H318
Skin Sens. 1 H317
Repr. 2 H361
STOT RE 1 H372

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

GHS07

GHS08

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H361 - Suspected of damaging fertility or the unborn child
H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear personal protective equipment
P302+P352 - If on skin: Wash with plenty of water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P310 - Immediately call doctor
P314 - Get medical advice/attention if you feel unwell
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention



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P362+P364 - Take off contaminated clothing and wash it before reuse
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to meet all regulations

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

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Carbon	(CAS No) 7440-44-0	>= 95	Not classified
Potassium Carbonate	(CAS No) 584-08-7	>= 3.5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Potassium iodide (KI)	(CAS No) 7681-11-0	>= 1.5	Skin Sens. 1B, H317 Repr. 2, H361 STOT RE 1, H372

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. Artificial respiration and/or oxygen if necessary.
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 : Inhaling this product can result in respiratory tract irritation, leading to mild to severe irritation of the nose, throat and lungs.
Symptoms/injuries after skin contact : Slight irritation.
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.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

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



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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

- Protective equipment : Footwear (shoes, boots). Gloves. Safety glasses with side shields. Wear suitable respiratory equipment in case of insufficient ventilation. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
- Emergency procedures : Do not breathe dust. No open flames, no sparks, and no smoking.

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. Flush spill area with water spray.
- Other information : Avoid dust formation. Non-sparking tools should be used. Eliminate all ignition sources. Evacuate area.

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. Eliminate every possible source of ignition. Take precautionary measures against static discharge. Use only non-sparking tools.
- 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 materials : Keep away from strong oxidizers. copper. fluorine. reactive metals (Al, K, Zn ...). Avoid all inorganic mineral acids.
- 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



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

NUSORB KINA (7440-44-0)	
ACGIH	Not applicable
OSHA	Not applicable
Carbon (7440-44-0)	
ACGIH	Not applicable
OSHA	Not applicable
Potassium Carbonate (584-08-7)	
ACGIH	Not applicable
OSHA	Not applicable
Potassium iodide (KI) (7681-11-0)	
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	: 3550 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: 365 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 0
Relative vapor density at 20 °C	: No data available



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Relative density : No data available
 Specific gravity / density : (400 - 600) g/l
 Solubility : insoluble in water.
 Water: Solubility in water of component(s) of the mixture :
 • : 1120 g/l (at 20 °C)
 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. Avoid all inorganic mineral acids.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Iodine. potassium iodate.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Carbon (7440-44-0)	
LD50 oral rat	> 10000 mg/kg
Potassium Carbonate (584-08-7)	
LD50 oral rat	1870 mg/kg
ATE US (oral)	1870.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
 Serious eye damage/irritation : Causes serious eye damage.
 Respiratory or skin sensitization : May cause an allergic skin reaction.
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.



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- Specific target organ toxicity (single exposure) : Not classified
- Specific target organ toxicity (repeated exposure) : Causes damage to organs through prolonged or repeated exposure.
- Aspiration hazard : Not classified
- Potential Adverse human health effects and symptoms : Harmful if swallowed. Harmful if inhaled.
- Symptoms/injuries after inhalation : Inhaling this product can result in respiratory tract irritation, leading to mild to severe irritation of the nose, throat and lungs.
- Symptoms/injuries after skin contact : Slight irritation.
- 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.

12.2. Persistence and degradability

Carbon (7440-44-0)	
Persistence and degradability	Not established.
Potassium Carbonate (584-08-7)	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Carbon (7440-44-0)	
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.



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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
Potassium Carbonate (584-08-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Potassium iodide (KI) (7681-11-0)
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
Potassium Carbonate (584-08-7)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
Potassium iodide (KI) (7681-11-0)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

EU-Regulations

Carbon (7440-44-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Potassium Carbonate (584-08-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Potassium iodide (KI) (7681-11-0)
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



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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

Potassium Carbonate (584-08-7)

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 the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

Potassium iodide (KI) (7681-11-0)

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 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 the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

15.3. US State regulations

SECTION 16: Other information

Full text of H-phrases:

----- Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
----- Eye Dam. 1	Serious eye damage/eye irritation Category 1
----- Repr. 2	Reproductive toxicity Category 2
----- Skin Corr. 1A	Skin corrosion/irritation Category 1A
----- Skin Irrit. 2	Skin corrosion/irritation Category 2
----- Skin Sens. 1	Skin sensitization Category 1
----- Skin Sens. 1B	Skin sensitization Category 1B
----- STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
----- H302	Harmful if swallowed
----- H314	Causes severe skin burns and eye damage
----- H315	Causes skin irritation
----- H317	May cause an allergic skin reaction
----- H318	Causes serious eye damage
----- H361	Suspected of damaging fertility or the unborn child
----- H372	Causes damage to organs through prolonged or repeated exposure

GHS US SDS



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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