

SAFETY DATA SHEET

Section 1 – IDENTIFICATION OF PRODUCT

All virgin activated carbon including but not limited to: GAI 0100, GAI 8100, GAM 025, NCB series including NCB 8x30, NCB 12x40, NCB 20x50, NCB CAT 1004, FHJ 400, FHJ 300, FHJ 400S, NS 8x30, PNV series, NZ series, AMT series, SOG series, YJ series, SLA series, SHA series), PAC H2O plus

Supplier:

Nichem Company
750 Frelinghuysen Ave.
Newark, NJ 07114
www.nichem.com
Tel: 973-399-9810, Fax: 973-399-8818

Section 2- HAZARDS IDENTIFICATION

CAUTION: Wet activated carbon adsorbs oxygen from air. Therefore, the atmosphere in a vessel or confined space may be deficient in oxygen and very hazardous to workers after it is loaded with activated carbon. Before anyone enters such a space, procedures should be followed to ensure ample oxygen availability and to comply with all governmental regulations.

2.1 GHS-US Classification

STOT

SE 3 H335

2.2 Labels Elements

Hazard Pictograms



Signal word (GHS-US)

warning

Hazard statements

H335- may cause respiratory irritation

Precautionary statements
(GHS-US)

P261-Avoid breathing dust
P264- Washing thoroughly after handling
P271- Use in well ventilated area
P280- Wear protective gloves/clothing/eye & face protect
P304&340- if inhaled, remove person to fresh air
PP305&351&338- if in eyes, rinse thoroughly with water with caution. Remove contact lenses if possible
P312-call doctor if sick
P403&P233- store in ventilated area, keep container tightly closed
P501- disposal container properly

2.3 Other hazards

Not established

2.4 Unknown acute toxicity (GHS-US)

Not established

Section 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	% by weight	CAS number	GHS US classification
Activated carbon	100	7440-44-0	not classified

Section 4- FIRST AID MEASURES

4.1 First aids and symptoms

<u>Description</u>	<u>First aids</u>
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Inhalation	Remove to fresh air. Get medical help if irritation develops
Skin contact	Wash affected area well with soap and water. Get medical help if irritation persists
Eye contact	Flush thoroughly with water. If irritation persists, get medical help
Ingestion	Give 2-3 glasses of milk or water to dilute. Contact physician or poison control center promptly for instruction.

4.2. Most important symptoms and effect, both acute and delayed

Inhalation	may cause respiratory irritation
Skin contact	May cause skin irritation
Eye contact	may cause eye irritation
Ingestion	No symptoms established

4.3 Indication of any immediate medical attention and special treatment required

Not established

Section 5 – FIRE AND EXPLOSION HAZARD DATA

Extinguishing media	Water, fire fighting foam, dry chemical, or carbon dioxide
Unsuitable extinguishing media	None
Specific hazard arising from substance	burning may produce irritant fumes. remove all carbon from the building.
Protective equipment & precaution	Fire fighters should wear full protective gear and use self-contained breathing apparatus with a full face mask.
Unusual fire and explosion hazard:	Contact with strong oxidizing agents such as liquid oxygen, chlorine, ozone, or potassium permanganate may result in fire.

Section 6- ACCIDENTAL RELEASE/SPILL

6.1 Personal precautions, protective equipment and emergency procedures

Personal protection: Avoid contact with eye, skin and inhalation. Use personal protection as described in section 8

6.2 Environmental precautions:

No specific environmental required. Contain and collect all spillage. If spill can't be contained, contact local authorities.

6.3 Method for cleaning up

For containment: stop flow/spill first if possible.

For Cleaning up: vacuum, shovel or sweep up. Repackage carbon in closed container. Clean up spills in a manner that does not disperse dust into air. Handle with industrial standard and safety practices. These include avoiding unnecessary exposure, and removal of material from eye, skin and cloth.

Section 7 – HANDLING AND STORAGE

Precaution for safe handling: Safety glasses or goggles and rubber gloves are recommended. Use an approved particulate filter if excessive dust is generated. Wash thoroughly after handling. Adequate ventilation

Conditions for safe storage: avoid damage to package; Store product in a closed dry container; Avoid exposure to water and contaminated air; Store in dry, cool, and well ventilated place.

Incompatibilities: Keep away from strong oxidizers, such as liquid oxygen, chlorine, etc.

Section 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control guidelines:

No information available

8.2 Exposure control

Appropriate engineering control local ventilation or exhaust
Respiratory protections Use a niosh approved particulate filter if excessive dust is generated.
Ventilation: Local exhaust is recommended.
Protective clothing: Safety glasses or goggles and rubber gloves are recommended.

Section 9 – PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance:	Powder, granular, pellet
Color:	black, dark grey
Odor:	odorless
Boiling Point:	N/A
Bulk density (H ₂ O=1):	0.4-0.65 g/cc
Vapor pressure:	N/A
Melting point:	N/A
Freezing point:	N/A
Vapor density:	N/A
Evaporation rate:	N/A
Flammability	N/A
Low pow	N/A
Low kow	N/A
Viscosity (dynamic)	N/A
Viscosity (kinematic)	N/A
Explosive properties	N/A
Oxidizing properties	N/A
Explosive limits	N/A
Solubility in water:	Insoluble

Section 10 – STABILITY AND REACTIVITY DATA

Reactivity	contact with strong oxidizers such as liquid oxygen, chlorine etc. may result in fires
Stability:	extremely stable
Conditions to avoid:	none
Incompatibility:	strong oxidizing agents
Hazardous decomposition products	carbon monoxide may be generated in the event of fire or high temperature.
Hazardous Polymerization:	will not occur.

Section 11 – TOXICOLOGICAL INFORMATION

Acute toxicology	not classified
LD50 oral rat	> 1000 mg/kg
Skin irritation	not established
Serious eye irritation	slight eye irritation
Sensitization	not classified
Carcinogenic or other health effects	not established
Reproductive toxicology	not classified
Specific target organ toxicology	not established
Specific target organ toxicology	not established (repeated)
Aspiration	based on operation experience and available data, no aspiration is expected.

Section 12- ECOLOGICAL INFORMATION

Toxicology	non toxic, the product is highly stable
Persistence and degradability	highly stable, will not degrade
Bioaccumulation	will not occur
Mobility in soil	will not occur due to stability and insolubility
Other adverse effect	no information available

Section 13 – DISPOSAL CONSIDERATION

Unused activated carbon is not a hazardous waste under U.S. RCRA, 40 CFR 261.

Disposal of wastes:	Activated carbon in its original form, is not hazardous material or hazardous waste. Spent carbon may be hazardous depending on application. Follow federal, state and local regulations for disposal; Spent carbon may be recycled (reactivated).
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Section 14 – TRANSPORTATION INFORMATION

IATA-DGR class	not regulated
IMDG Class	not regulated

Steam activated carbons are excluded from provisions of IATA #395, IMCO Class 4.2 or UN #1362.

Activated carbon is listed in the United Nations classification as class 4.2. However, this product has been tested (UN part III, section 33.3.1.6, test 4) many times and determined that it doesn't meet definition of a self heating substance. Therefore, provision of UN shipment on this product doesn't apply.

Section 15 – REGULATORY INFORMATION

HCS Classification: Irritating material

OSHA: Nonhazardous according to definitions of health hazard and physical provided in the hazard communication of standard (29 CFR 1910.1200).

US Federal regulation: TSCA, listed under carbon (7440-44-0)
SARA 302/304/311/312 extremely hazardous substances: not applicable
SARA 302/304 emergency planning and notification: not applicable
SARA 302/304/311/312 hazardous chemicals: not applicable
SARA 311/312: immediate (acute) health hazard

State regulations: no products found

International regulation:

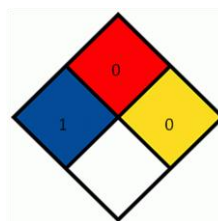
United States:	this product and/or its components are TSCS listed.
Canada:	this product and/or its components are DSL listed or acceptable under CEPA Registration regulation.
Europe:	this product is EINECS listed
Australia:	This product is AICS listed
Japan:	This product contains ENCS and MITI listed components
China:	this product is listed on Chinese IECSC;
South Korea:	this product is ECL listed;

Philippines: this product is PICCS listed;
Switzerland: acceptable

Section 16- OTHER INFORMATION

Full text of H-phrases

STOT SE 3 specific target organ toxicity
H335 may cause respiratory irritation



Hazard Rating:

HMIS:

Health -1: minor irritation
Flammability -0: will not burn
Reactivity – 0: normally stable, even under fire exposure, and will not react with water
Protective Equipment – To be set by user

Activated carbons are not listed as potential carcinogens by any agency. However, respiratory protection is recommended.

Revision summary: add other carbon to the list

Revision date: August 9, 2017

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