

E H. SMOLER
Consulting Research for Agricultural Science LTD.

SafeChan 70-90 (Safgan)
Material Safety Data Sheet

Date: 02.05.08

Product: SafeChan 70-90 (Active Carbon)

Section I-Chemical Product and Company Identification

Manufacturer: E. H. SMOLER Consulting Research for Agricultural Science
LTD.

PO Box 283
Gedera
Israel
70752

Date prepared: 01/04/2008

Prepared by: Dr E. SMOLER

Chemical name and synonyms: Carbon

Formula: C

Section II – Composition/Information on Ingredients

Non hazardous components are listed at 3% or greater; acute hazards are listed when present at 1% or greater and chronic hazards are listed when present at 0.01% or greater. This is not intended to be a complete compositional disclosure.

Ingredient	% by weight	CAS
Carbon	100	7440-44-0

Section III – Hazards Identification

Emergency Overview: Black particulate solid, pellet or powder. Contact may cause eye irritation.

Dust may slightly irritating to eye and respiratory tract.

Caution!! Wet activated carbon removes oxygen from air causing a severe hazards to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state and international regulations.

Potential health effects:

Effect and Hazards of Eye Contact: The physical nature of the product may produce eye irritation.

Effect and Hazards on Skin Contact: The product is not a primary skin irritant. The primary skin irritation index (Rabbit) is 0.

Effect and Hazards of Inhalation (Breathing): The product is particularly non-toxic through inhalation. The acute inhalation LC₅₀ (Rat) is 64.4 mg/L (nominal concentration) for active carbon.

Effect and Hazards of Ingestion (Swallowing): The product is non-toxic through ingestion. The acute oral LD₅₀ (Rat) is > 10g/kg.

Primary Routes of Entry: Inhalation, Ingestion, skin contact, eye contact.

Chronic Effects: The effects of long term, low-level exposures to this product have not been determined. Safe handling of this material on a long –term basis should emphasize the avoidance of all effects from repetitive acute exposures.

Carcinogenicity: NTP: N/A IARC: N/A OSHA regulation: NO.

Section IV – First Aid Measures

Treatment for eye contact: Flush with plenty of water for at least 15 minutes.

Treatment for skin contact: Wash with soap and water.

Treatment for inhalation (Breathing): N/A

Treatment for Ingestion (Swallowing):N/A

Section V-Fire Fighting Measures

Flash Point: N/A

Limits Lel: N/A

Uel: N/A

Extinguishing Media: Flood with plenty of water.

Special Firefighting Procedure: None

Unusual Fire and Explosion Hazards: Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc, May results in fire.

NEPA RATING: Health = 0 Reactivity = 0 Flammability = 1

Section VI – Accidental Release Measures

Step to be taken in a case material is released or spilled: Sweep up unused carbon and discard in refuse container or repackage.

Waste Disposal Method: Dispose of unused carbon in refuse container. Dispose of in accordance with local, state and International regulation.

Section VII – Handling and Storage

Precautions for Handling and Storage: Caution!! Wet activated carbon

Removes oxygen from air causing severe hazards to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state and international regulations.

Other Precaution: Wash thoroughly after handling. Exercise caution in the storage and handling of all chemical substances.

Section VIII – Exposure Controls, Personal Protection

Exposure Guidelines:

OSHA PEL* 5 mg/M³ (Respirable)

ACGIH TLV* 10 mg/M³ (Total)

*** PELs and TLVs are 8-hour TWAs unless otherwise noted.**

Respiratory Protection: A NIOSH approved particulate filter respirator is recommended if excessive dust is generated.

Ventilation: Local Exhaust Ventilation: Recommended

Mechanical Ventilation: Recommended

Protective Gloves: Recommended

Eye Protection: Safety Glasses or Goggles Recommended

Other Protective Equipment: Not Required

Section IX – Physical and Chemical Properties

Boiling point: N/A

Specific Gravity: 2.3 g/cc real density.

Vapor Pressure: N/A

Melting point: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Solubility in water: Negligible

Packing Density: 0.4 to 0.7 g/cc

Appearance and odor: Black particulate solid, powder or pellet.

Section X – Stability and Reactivity

Stability: Stable

Condition to avoid: None

Incompatibility (Material to avoid): Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.

Hazardous Decomposition products: Carbon monoxide may be generate in the event of a fire.

Polymerizing Condition to avoid: None

Section XI – Toxicological Information

See Health Effects Section III.

Section XII – Ecological Information

Not determined

Section XIII – Disposal Considerations

Waste Disposal Methods: Dispose of unused carbon in refuse container. Dispose of in accordance with local, state and International regulations.

Section XIV – Transport Information

Proper Shipping Name: Not Regulated

Hazard Class: N/A

Identification Number: N/A

Packing Group: N/A

This Product has been tested according to the United Nations Transport of Dangerous Goods test protocol for spontaneously combustible materials. It has been specifically determined that this product does not meet the definition of self heating substance or any hazard class, and therefore is not a hazardous material and not regulated.

Section XV – Regulatory Information

SARA Title III: N/A

TSCA: The ingredients of this product are on the TSCA Inventory List.

OSHA: No hazardous according to definition of health hazards and physical hazard provided in the Hazard Communication Standard (29 CFR 1910.1200)

DSL#: 6798

EEC Council Directives relating to the classification, packaging and labeling of dangerous substances and preparations.

Risk (R) and Safety (S) phrases: May be irritating to eyes (R36).

Section XVI - Other Information

Intended Use: Generally used for treatment of concentrate and liquids feed.

While this information and recommendation set forth herein are believed to be accurate as of the date hereof, SafeChan 70-90, Active Carbon, Carbon.

E. H. SMOLER Makes No Warranty with respect and Disclaims all Liability from Reliance Thereon

*******End of Material Safety Data Sheet*******