SIGMA-ALDRICH

MATERIAL SAFETY DATA SHEET

Date Printed: 07/30/2004 Date Updated: 03/09/2004 Version 1.8

Section 1 - Product and Company Information

ACTIVATED CARBON, NORIT RO 0.8, Product Name PELLETS 329428 Product Number Brand ALDRICH Company Sigma-Aldrich Street Address 3050 Spruce Street SAINT LOUIS MO 63103 US City, State, Zip, Country Technical Phone: 314 771 5765 Emergency Phone: 414 273 3850 Ext. 5996

800 325 5052

Section 2 - Composition/Information on Ingredient SARA 313 Substance Name CARBON 7440-44-0 No Formula Synonyms Acticarbone * AG 3 (Adsorbent) * AG 5 * AG 5 (Adsorbent) * AK (Adsorbent) * Amoco PX 21 * Anthrasorb * AR 3 * ART 2 * AU 3 * BAU * BG 6080 * Colgon BPL * Colgon PCB-D * Colgon PCB 12X30 * Canesorb * Carbon-12 * Carbopol Extra * Carbopol M * Carbopol Z 4 * Carbopol Z Extra * Carbosieve * Carbosorbit R * Cecarbon * CF 8 * CF 8 (Carbon) * CLF II * CMB 50 * CMB 200 * Coke powder * Columbia LCK * CUZ 3 * CWN 2 * Darco * Filtrasorb * Filtrasorb 200 * Filtrasorb 400 * Grosafe * Hydrodarco * Irgalite 1104 * Jado * K 257 * MA 100 (Carbon) * Norit * Nuchar * OU-B * Pelikan C 11/1431a * SKG * SKT * SKT (adsorbent) * SU 2000 * Suchar 681 * Supersorbon IV * Supersorbon S 1 * U 02 * Watercarb * Witcarb 940 * XE 340 * XF 4175L

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Caution: Avoid contact and inhalation.

FF5250100

HMIS RATING
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

RTECS Number:

Fax:

NFPA RATING HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

EXPLOSION DATA

Dust Potential: This material, like most materials in powder form, is capable of creating a dust explosion.

FLASH POINT N/A

AUTOIGNITION TEMP 450 °C

FLAMMABILITY N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

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Suitable: Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT Respiratory: Wear dust mask. Hand: Protective gloves. Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES Wash thoroughly after handling.

EXPOSURE LIMITS, RTECS

Country Source

USA MSHA Standard

Remarks: Nuisance Particulates. USA OSHA.

New Zealand OEL

PEL

Type

8H TWA 15 MG/M3, TOTAL DUST

Remarks: check ACGIH TLV

EXPOSURE LIMITS

Country Source OSHA.

Туре Value 2.1 mg/m3 REL

Value

Section 9 - Physical/Chemical Properties

Appearance Physical State: Solid

Color: Black

Form: Powder Granules

Odor: Odorless

Property

Value

N/A

At Temperature or Pressure

Molecular Weight 12.01 AMU 6 - 9N/A BP/BP Range MP/MP Range N/A

N/A Freezing Point < 0.1 mmHq Vapor Pressure

Vapor Density N/A

Saturated Vapor Conc. N/A 0.25 - 0.6 g/cmSG/Density Bulk Density 0.336 kg/l

Odor Threshold N/A Volatile* N/A VOC Content N/A Water Content N/A Solvent Content N/A Evaporation Rate N/A N/A Viscosity

Surface Tension N/A N/A Partition Coefficient Decomposition Temp. N/A Flash Point N/A Explosion Limits N/A Flammability N/A 450 °C Autoignition Temp

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Activated carbon, Norit RO 0.8,

Optical Rotation Miscellaneous Data

Solubility

N/A Solubility in Water: Insoluble.

Solvent: Insoluble.

Other Solvents: ORGANIC SOLVENTS

N/A = not available

Section 10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

N/A

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

Intravenous

Mouse

440 MG/KG

T-050

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat

Dose: 167 MG/KG

Route of Application: Subcutaneous

Exposure Time: (8D PREG)

Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local

environmental regulations.

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Section 14 - Transport Information

DOT

Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION

S: 24/25 22

Safety Statements: Avoid contact with skin and eyes. Do not breathe dust.

US CLASSIFICATION AND LABEL TEXT

US Statements: Caution: Avoid contact and inhalation.

UNITED STATES REGULATORY INFORMATION SARA LISTED: NO

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL: Yes

NDSL: No

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

Activated carbon, Norit RO 0.8, Pellets

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