

NORIT AMERICAS INC. -- NORIT BITUMINOUS/SUBBITUMINOUS COAL BASED ACTIVATED CARBONS -- 6810-00-726-7944

=====
Product Identification
=====

Product ID:NORIT BITUMINOUS/SUBBITUMINOUS COAL BASED ACTIVATED CARBONS

MSDS Date:09/13/2000

FSC:6810

NIIN:00-726-7944

MSDS Number: CKWKZ

=== Responsible Party ===

Company Name:NORIT AMERICAS INC.

Address:5775 PEACHTREE DUNWOODY RD BLDG C SUITE 250

City:ATLANTA

State:GA

ZIP:30342

Country:US

Info Phone Num:800-641-9245/PRYOR 918-825-5570

Emergency Phone Num:800-255-3924 CHEM-TEL

Resp. Party Other MSDS Num.:NORIT MSDS NO. 117 REVISION NO. 1

Preparer's Name:NOT PROVIDED

CAGE:KO977

=== Contractor Identification ===

Company Name:NORIT AMERICAS INC.

Address:5775 PEACHTREE DUNWOODY RD BLDG C SUITE 250

Box:City:ATLANTA

State:GA

ZIP:30342

Country:US

Phone:800-641-9245/PRYOR 918-825-5570

CAGE:KO977

Company Name:PITTSBURGH VISION SERVICES

Address:300 S CRAIG ST

B

ox:UNKNOW

City:PITTSBURGH

State:PA

ZIP:15213-3791

Country:US

Phone:412-682-5600;800-641-9245

Contract Num:SP0450-01-F-0614

CAGE:2A222

Company Name:PITTSBURGH VISION SERVICES

Address:300 S CRAIG ST

Box:UNKNOW

City:PITTSBURGH

State:PA

ZIP:15213-3791

Country:US

Phone:412-682-5600;800-641-9245

Contract Num:SPO450-01-F-0601

CAGE:2A222

=====
Composition/Information on Ingredients
=====

Ingred Name:ACTIVATED CARBON

CAS:7440-44-0

RTECS #:FF5250000

OSHA STEL:5 MG/M3 (RDUST)
ACGIH TLV:10 MG/M3 (TDUST)

===== Hazards Identification =====

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: EYES: NOT CORROSIVE, BUT LIKE MOST PARTICULATE MATERIALS, MAY CAUSE MILD PHYSICAL IRRITATION. SKIN: NOT CORROSIVE AND NOT A PRIMARY SKIN IRRITAN

T. MILD IRRITATION IS POSSIBLE DUE TO ABRASIVE ACTION OF DUST. INGESTION: NO KNOWN DELETERIOUS EFFECTS. INHALATION: POSSIBLE MILD IRRITATION OF RESPIRATORY TRACT DUE TO DRYING AND ABRASIVE ACTIONS OF DUST.

Explanation of Carcinogenicity:IARC: NOT LISTED. NTP: NOT LISTED. OSHA: NOT REGULATED. ACTIVATED CARBONS ARE NOT LISTED AS POTENTIAL CARCINOGENS BY ANY AGENCY.

Effects of Overexposure:EYES: MAY CAUSE MILD PHYSICAL IRRITATION. SKIN: MILD IRRITATION IS POSSIBLE DUE TO AB RASIVE ACTION OF DUST.

INHALATION: POSSIBLE MILD IRRITATION OF RESPIRATORY TRACT DUE TO DRYING AND ABRASIVE ACTION OF DUST.

Medical Cond Aggravated by Exposure:NONE DOCUMENTED.

===== First Aid Measures =====

First Aid:SKIN: WASH MATERIAL OFF THE SKIN WITH SOAP AND WATER, SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. EYES: FLUSH WITH COPIOUS AMOUNTS OF WATER. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS. INGESTION: GI VE ONE OR TWO GLASSES OF WATER TO DRINK. SEEK MEDICAL ATTENTION IF GASTROINTESTINAL SYMPTOMS DEVELOP. INHALATION: REMOVE TO FRESH AIR. SEEK MEDICAL ATTENTION IF COUGH OR RESPIRATORY SYMPTOMS DEVELOP.

===== Fire Fighting Measures =====

Extinguishing Media:EXTINGUISH FIRE USING WATER FOG, FINE WATER SPRAY, CARBON DIOXIDE OR FOAM. AVOID STIRRING UP DUST CLOUDS.

Fire Fighting Procedures:IF POSSIBLE TO DO SAFELY, MOVE SMOLDERING ACTIVATED CARBON TO A NON-HAZARDOUS A

REA, PREFERABLY OUTDOOR.

RESPIRATORY AND EYE PROTECTION REQUIRED FOR THE FIRE FIGHTING PERSONNEL INCLUDES FULL PROTECTIVE EQUIPMENT (BUNKER GEAR). A SELF-CONTAINED BREATHING APPARATUS (SCBA) SHOULD BE USED FOR INDOOR AND LARGE OUTDOOR FIRES.

Unusual Fire/Explosion Hazard:ACTIVATED CARBON IS DIFFICULT TO IGNITE AND TENDS TO BURN SLOWLY (SMOLDER) WITHOUT PRODUCING SMOKE OR FLAMES. TOXIC GASES WILL FORM UPON COMBUSTION.

===== Accidental Release Measures =====

Spill Release Procedures:CLEAN UP SPILLS IN A MANNER THAT DOES NOT DISPERSE DUST INTO THE AIR. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE, AND REMOVAL OF MATERIAL FROM EYES, SKIN, AND CLOTHING.

Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER

===== Handling and Storage =====

Handling and Storage Precautions:PRODUCT SHOULD BE STORED IN A CLOSED DRY CONTAINER. MAINTAIN GOOD HOUSEKEEPING PROCEDURES. STORE AWAY FROM STRONG OXIDIZERS SUCH AS OZONE, LIQUID OXYGEN, CHLORINE, PERMANGANATE, ETC. USE WITH ADEQUATE VENTILATION TO DRAW DUST AWAY FROM WORKERS' BREATHING ZONES. STORE AT AMBIENT TEMPERATURE.

Other Precautions:FOLLOW GOOD HANDLING AND HOUSEKEEPING PRACTICES TO MINIMIZE SPILLS, GENERATION OF AIRBORNE DUSTS, AND ACCUMULATION OF DUSTS ON EXPOSED SURFACES. PREVENT OR MINIMIZE EXPOSURES TO DUSTS BY USING APPROPRIATE RESPIRATORS, GLOVES, AND EYE PROTECTION. WASH EXPOSED SKIN AREAS THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION EQUIPMENT APPROPRIATE TO THE MATERIAL AND/OR ITS CONCENTRATION WHERE AIRBORNE EXPOSURE IS LIKELY. IF EXPOSURES CANNOT BE KEPT TO A MINIMUM WITH ENGINEERING CONTROLS, CONSULT RESPIRATOR MANUFACTURER TO DETERMINE APPROPRIATE

IATE TYPE EQUIPMENT FOR A GIVEN APPLICATION.

OBSERVE RESPIRATOR USE LIMITATIONS GIVEN BY NIOSH.

Ventilation:USE LOCAL EXHAUST VENTILATION TO CONTROL EMISSIONS NEAR THE SOURCE. VENTILATION SYSTEMS SHOULD BE SIZED AND CONFIGURED TO PREVENT EXPOSURE ABOVE PEL.

Protective Gloves:AVOID CONTACT WITH SKIN.

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS/DUST TIGHT GOGGLES ARE RECOMMENDED.

Other Protective Equipment:HAVE EYE FLUSHING EQUIPMENT AVAILABLE. WEAR DUST RESISTANT CLOTHING.

Work Hygienic Practices:WASH CONTAMINATED CLOTHING AND CLEAN PROTECTIVE EQUIPMENT BEFORE REUSE. WASH SKIN THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

OBSERVE RESPIRATOR USE LIMITATIONS SPECIFIED BY NIOSH/MSHA OR THE MANUFACTURER. ABBREVIATION: N/A=NOT APPLICABLE OR NOT AVAILABLE.

N/K=UNKNOWN. N/P=NOT PROVIDED. N/R=NOT RELEVANT. N/D=NOT DETERMINED. N/E=NOT ESTABLISHED. CNS=CENTRAL NERVOUS SYSTEM.

GI=GASTROINTESTINAL.

===== Physical/Chemical Properties =====

HCC:N1

Decomp Temp:Decomp Text:NOT PROVIDED

Spec Gravity:0.449 - 0.545

Solubility in Water:INSOLUBLE

Appearance and Odor:BLACK GRANULES WITH NO ODOR

Corrosion Rate:NOT PROVIDED

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CONTACT WITH STRONG OXIDIZERS SUCH AS OZONE, LIQUID OXYGEN, CHLORINE, PERMANGANATE, ETC. MAY RESULT IN RAPID COMBUSTION. AVOID CONTACT WITH STRONG ACIDS.

Stability Condition t

o Avoid:THIS PRODUCT IS CONSIDERED STABLE UNDER THE SPECIFIED CONDITIONS OF STORAGE, SHIPMENT AND USE.

Hazardous Decomposition Products:OXIDES OF CARBON.

===== Toxicological Information =====

Toxicological Information:THIS MATERIAL IS NON-TOXIC. CONTACT THE MANUFACTURER FOR FURTHER INFORMATION.

===== Ecological Information =====

Ecological:THIS MATERIAL, IN ITS ORIGINAL STATE, IS NOT HARMFUL TO THE ENVIRONMENT. CONTACT

T THE MANUFACTURER FOR FURTHER INFORMATION.

===== Disposal Considerations =====

Waste Disposal Methods:COAL BASED ACTIVATED CARBON, IN ITS ORIGINAL STATE, IS NOT A HAZARDOUS WASTE. FOLLOW APPLICABLE REGULATIONS FOR WASTE DISPOSAL. USED ACTIVATED CARBON MAY BECOME CLASSIFIED AS A HAZARDOUS WASTE DEPENDI NG UPON THE APPLICATION. FOLLOW APPLICABLE REGULATIONS FOR DISPOSAL. RECYCLING (RE-ACTIVATION) MAY B E A VIABLE ALTERNATIVE TO DISPOSAL.

=====
===== MSDS Transport Information =====

Transport Information:DOT (DEPARTMENT OF TRANSPORTATION): PROPER SHIPPING NAME: ACTIVATED CARBON (NOT DOT REGULATED). HAZARD CLASS: NOT APPLICABLE. UN NUMBER: NOT APPLICABLE. PACKING GROUP: NOT APPLICABLE. FREIGHT CLASSIFI CATION: STCC CODE - # 2899643 NMFC CLASS - 70. PER MR. RON LITTON, NORIT TECHNICAL SUPPORT, THEIR PRODUCTS ARE STEAM ACTIVATED AND ARE NOT REGULATED FOR ANY MODE OF TRANSPORTATION.

=====
===== Regulatory Information =====

SARA Title III Information:CERCLA/SUPERFUND, 40CFR117, 302: NOTIFICATION OF SPILLS OF THIS MATERIAL IS NOT REQUIRED. SARA SUPERFUND: AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE I I I). SECTION 302, AND : SECTION 302 - EXT REMELY HAZARDOUS SUBSTANCES (40CFR355): THIS PRODUCT IS NOT LISTED AS AN EXTREMELY HAZARDOUS SUBSTANCE. SECTION 313 - LIST OF TOXIC CHEMICALS: THIS PRODUCT IS NOT LISTED.

Federal Re
gulatory Information:TOXIC SUBSTANCES CONTROL ACT, 40 CFR 710: THIS PRODUCT IS ON THE INVENTORY LIST. RESOURCE CONSEVATION AND RECOVERY ACT: THIS PRODUCT, IN ITS ORIGINAL STATE, DOES NOT MEET THE CRITERIA OF A HAZARDOUS W ASTE. OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200: SEE "PARTICULATES NOT OTHERWISE REGULATED," IN TABLE 2-1, OF 29 CFR 1910.1000, "LIMITS FOR AIR CONTAMINATES".

State Regulatory Information:CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH: NOT LIS

TED. MASSACHUSETTS - SUBSTANCE LIST: NOT LISTED. NEW JERSEY
RIGHT-TO-KNOW: NOT LISTED. PENNSYLVANIA RIGHT-TO-KNOW; NOT LISTED.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.