

COAL Tar Pitch

MATERIAL SAFETY DATA SHEET (MSDS) ** ACTIVE PRODUCT - Intalco

Product: #5001695 ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH

Report Date : 10/04/99
Manufacturer's MSDS Date : 05/01/98
Date Entered : 09/15/98

SECTION I MANUFACTURER AND PRODUCT

Product: ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH
MSDS #: 5001695

Manufacturer's Name : Koppers Company, Inc.
EMERGENCY PHONE NUMBER : 800-424-9300
Address : 436 Seventh Avenue
: Pittsburgh, PA 15219
Manufacturer Code : KOPPER

Trade Name : Synonym: Pencil Pitch
Chemical Name : Not Given
Chemical Formula : A complex mix of hydrocarbons

HMIS Codes: Acute: 1 Chronic: 4 Skin: 4 Reactivity: 0 Fire: 1

Manufacturer's HMIS Recommendations:
NFPA 704M HMIS: 2/2 health; 1/1 flammability; 1/1 reactivity.

Manufacturer's Product Code : Commodity Number: 39100001.
Chemical Name/Classification : Aromatic Hydrocarbons

Manufacturer's Recommended Use:

Other Manufacturer Data:
Canadian Product Classification: Class D, Division 2,
Subdivision A.

Product Hazards:
DUSTS AND FUMES.
WHMIS Hazard Class:
D2A.

SECTION II CHEMICAL INGREDIENTS

Table with 4 columns: CAS# or Code, Ingredient, From, To. Row 1: 65996-93-2, COAL TAR PITCH (), %100.00000. Below table are toxicity values: ACGIH TLV, OSHA PEL, NIOSH REL, LD50 (ORAL RAT), LC50.

Product: #5001695 ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH

(See Appendix 1 for Manufacturer's Comments)

SECTION III PHYSICAL DATA

Boiling Point : >464
 Freezing Point : Not Given
 Vapor Pressure (mm Hg.) : none mm at 68 deg F.
 Vapor Density (Air=1) : > 1
 Specific Gravity (Water=1) : 1.3+/-0.04
 pH (Neutral=7) : Not Applicable
 Percent Volatile : Not Applicable
 Evaporation Rate : Not Applicable (Reference: Ether=1)
 Water Solubility : Negligible.
 Molecular Weight : Not Given
 Melting Point : Not Applicable
 Oil/Water Particle CoEf : Not Applicable
 Particle Size : Not Given
 Appearance : Temperature dependent. Black solid when allowed t
 Physical State : Solid.
 Odor : Aromatic
 Odor Threshold : Not Given
 Other Physical Data:
 VOC: NA. VISCOSITY: NA.

SECTION IV FIRE & EXPLOSION DATA

Flash Point : 374.000000 deg F. Method: PMCC
 Autoignition Temp. : >750 deg F.
 Explosion Limits LEL: Not Applicable UEL: Not Applicable
 Extinguishing Media:

Use dry chemicals, carbon dioxide, sand, foam, steam, or water fog.

Special Fire Fighting Methods:

Wear complete fire service protective equipment, including full-face MSHA/NIOSH approved self-contained breathing apparatus. Use water to cool fire-exposed containers and structures and to protect personnel. Water/fog can control unconfined pitch fires, but water may cause frothing or eruption in closed tanks.

Unusual Fire & Explosion Hazards:

Coal tar pitch at elevated temperatures may generate vapors that may ignite in the presence of air and a source of ignition. Burning may emit hazardous fumes/vapors which can form flammable/explosive mixtures in air and which may be in concentrations greater than the recommended PEL/TLV. Air-borne pitch dust may form explosive mixtures with air. Cloud ignition temperature is 710 C (1310 F) minimum. Explosion concentration (dust) is 0.035 ounces/ft³ (1000 mg/0.03 m³). Closed containers may explode when exposed to extreme heat. Liquid (molten) pitch at elevated temperatures will sustain combustion.

Sensitivity to Impact:

Product: #5001695 ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH

No:

Other:

None given

SECTION V HEALTH HAZARDS

Effects of Acute Exposure to Product:

Inhalation:

Inhalation of fumes, vapors, or dust may cause temporary respiratory irritation. Acute respiratory effects caused by overexposure to coal tar pitch volatiles may include coughing, sneezing, and swollen or irritated nasal mucosa or sinuses. Inhalation of fumes or vapors in significant excess of the PEL/TLV may lead to systemic symptoms such as salivation; vomiting; respiratory difficulties; headache; loss of pupillary reflexes; central nervous system (CNS) effects such as dizziness, weakness, possible loss of coordination and collapse; cyanosis; hypothermia; and convulsions.

Skin Contact:

Contact with the skin can result in irritation which, when accentuated by sunlight, may result in a phototoxic skin reaction. Contact with heated material may cause thermal burns. Hot/molten pitch is a severe burn hazard. Prolonged and repeated skin contact in the absence of recommended hygiene practices may cause acne, folliculitis and more serious skin disorders such as changes in skin pigmentation, ulcerations, benign skin growths and skin cancer.

Eye Contact:

Overexposure to fumes, vapors, or dust may cause irritation and burning to the eyes. Reversible symptoms may include irritation, a burning sensation, intolerance to light, redness/swelling/tearing, and possible erosion of the surface of the cornea. Contact with heated material may cause thermal burns.

Ingestion:

Ingestion of coal tar pitch may cause irritation of the gastrointestinal tract followed by one or more of the following: nausea, vomiting, and abdominal discomfort.

Effects of Chronic Exposure to Product:

General:

See Effects of Acute Exposure to Product

Route of Entry.....

Skin	Skin	Eye		
Contact	Absorption	Contact	Inhalation	Ingestion
Yes	No	Yes	Yes	Yes

Manufacturer's Route of Entry Information:

See Other Manufacturer's Health Information

Product: #5001695 ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH

Medical Conditions Which May Be Aggravated:

None given

Exposure Limits : Refer to Section II
Sensitization to Product : No
Teratogenicity : No
Mutagenicity : Yes
Synergistic Products : None known
Irritancy of Product : Yes
Carcinogenicity : No
Non
Reproductive Toxicity : No

Other Manufacturer's Health Effects Data:

HEALTH/SAFETY ALERT: WARNING!! May cause eye irritation and burning. May cause skin irritation, a phototoxic skin reaction in sunlight, and skin damage. May cause respiratory tract irritation if inhaled. May cause digestive tract irritation if ingested. Contact with heated material may cause thermal burns. Chronic overexposure (as defined by OSHA recommended standards) can cause cancer. Target organs are the skin, bladder, stomach, lungs. Risk of cancer depends on duration and level of exposure. Avoid prolonged or repeated contact with skin or breathing dust/fumes/vapors. Observe good hygiene and safety practices when handling this product. Do not use this product until MSDS has been read and understood. This product contains a chemical known to the State of California to cause cancer and reproductive hazards.

EMERGENCY FIRST AID PROCEDURES

Eye Contact:

Flush eyes immediately with large amounts of water for at least 15 minutes, occasionally lifting the eyelids. Seek medical aid immediately.

Skin Contact:

For contact with molten product, do not remove contaminated clothing. Flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. Pack with ice. Seek medical aid immediately. For other contact, remove all contaminated clothing and wash exposed area thoroughly with nonabrasive soap and water, or a mild detergent.

Inhalation:

Remove subject from exposure area to fresh air immediately. If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration (e.g., mouth-to-mouth). Seek medical aid immediately.

If Swallowed:

If the person is conscious, first induce vomiting to prevent further absorption. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Give oxygen if respiration is shallow. Immediately seek medical aid.

Product: #5001695 ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH

Notes to Physician:
Not Given

SECTION VI REACTIVITY DATA

Stability:
Not Given

Conditions to Avoid:
Conditions Contributing To Instability: none known.

Incompatibility:
Avoid contact with water when confined and in a molten state.
Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products:
Does not decompose at ambient temperatures. May emit hazardous fumes/vapors in concentrations greater than the PEL/TLV upon heating or burning. REACTIVITY: None. HAZARDOUS COMBUSTION PRODUCTS: CO₂, CO, NO_x, SO₂, & PAHs.

Hazardous Polymerization:
None.

Polymerization Conditions to Avoid:
Not Given

SECTION VII SPILL OR LEAK PROCEDURE

Manufacturer's Recommended Spill/Cleanup Procedure:
SPILL OR LEAK PROCEDURES (PRODUCT): Avoid breathing vapors or contact with skin and eyes. Remove all ignition sources. Try to stop the source of the leak if possible without hazard. Ventilate the area if spill occurs indoors. Release or spillage of solid can be treated as a coal spillage and recovery made avoiding skin and eye contact. Shovel into dry, labeled containers and secure cover. Contain runoff of fire control water. If hot liquid is spilled, contain by diking/berming with absorbent solids, such as sand, ashes, earth, or other inert material as necessary to prevent entry into sewers or open bodies of water. Avoid contact with hot liquid/fumes/vapors. Provide cleanup personnel with appropriate protective clothing. In cases involving release to the environment in the U.S., report the release to The National Response Center at 1-800-424-8802. In Canada, report releases to provincial authorities, municipal authorities, or both, as required. Due to the concentration of Benzo(a)pyrene in coal tar pitch as determined from the analyses presented in Chemical Components section and the reportable quantity for Benzo(a)pyrene of one pound, a CERCLA (superfund) release of approximately 15 gallons (163 pounds) of coal tar pitch requires National Response Center

Product: #5001695 ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH

notification.

Manufacturer's Recommended Waste Disposal Method:

If disposing in a state other than California, dispose of as an industrial waste in accordance with local, state, and federal regulations. Place in tightly sealed labeled containers. This product contains coal tar constituents, which has been determined by IARC to be a carcinogen. According to California hazardous waste regulations, substances posing a hazard to human health because of carcinogenicity are hazardous wastes. Dispose of as a hazardous waste in the state of California. In Canada, dispose of the material in accordance with provincial regulations.

Spill Procedure Information for Intalco

No local spill procedure information indicated

SECTION VIII SPECIAL PROTECTION INFORMATION

Shumacher & Associates Recommended Respiratory Protection:

RESPIRATORY PROTECTION IS UNNECESSARY UNDER NORMAL CONDITIONS OF USE IF PEL IS NOT EXCEEDED.

Use a NIOSH-approved half-mask respirator with HEPA CARTRIDGE, if concentration less than 10 times PEL.

Use a NIOSH-approved full-mask respirator with HEPA CARTRIDGE, if concentration above 10 times PEL but less than 50 times PEL.

Use an air-supplied respirator for confined spaces or where airborne concentration may exceed 50 times PEL.

Manufacturer's Recommended Respiratory Protection:

Ventilation (Technical Control):

Provide sufficient general or local exhaust ventilation in adequate volume and pattern to control airborne chemical concentrations below the PEL/TLV or other limits appropriate to protect health. Local exhaust should always be used in confined spaces.

Manufacturer's Recommended Ventilation:

Shumacher & Associates Recommended Gloves:

Silvershield manufactured by North Hand Protection

Manufacturer's Recommended Gloves:

MATERIAL SAFETY DATA SHEET (MSDS) ** ACTIVE PRODUCT - Intalco

Product: #5001695 ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH

Shumacher & Associates Recommended Eye Protection:
Safety glasses with sideshields are recommended.

Manufacturer's Recommended Eye Protection:

Shumacher & Associates Recommended Other Protection:
Impervious clothing

Manufacturer's Recommended Other Protection:

SECTION IX SPECIAL PRECAUTIONS

Manufacturer's Recommended Handling & Storage:

STORAGE: Store in a labeled container in a clean, dry, well-ventilated area from all sources of ignition. Protect containers from physical damage. Maintain good housekeeping.

Wash exposed areas thoroughly with soap and water after handling and especially before eating, drinking, using tobacco products or restrooms. Take a complete soap and water shower at the end of each work day. Do not smoke or eat in area where this material is handled. Work clothes should be laundered before reuse. Remove and launder contaminated clothing separate from other laundry before reuse.

Other Manufacturer Special Precautions:

HANDLING: Avoid prolonged or repeated contact with skin or breathing of dusts/fumes/vapors. Observe good personal hygiene practices and recommended procedures. Avoid contact with molten material. Wear appropriate protective equipment when performing maintenance on contaminated equipment. Closed system handling of liquid pitch could create excessive vapor concentrations in confined spaces; e.g., tanks, rail cars, tank trailers. When entering a confined space that has been in liquid pitch service, follow confined space entry procedures set forth in the OSHA Permit-Required Confined Spaces Standard, 29 CFR 1910.146.

SECTION X REGULATORY/REFERENCE INFORMATION

DOT Shipping Name : Elevated temperature Liquid, n.o.s.
DOT/International Classification System Label: Not Required
DOT Number : UN3527
RCRA Waste Numbers for Mixture:
Not Federally Regulated.

Product: #5001695 ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH

SUPPLEMENT B HEALTH EFFECTS OF INGREDIENTS
(Additional Toxicity Information)

Name: COAL TAR PITCH ()

CAS#: 65996-93-2 RTECS#: GF8655000 EPA Code:

Carcinogenesis: Yes Reference:

Acute Effects:

(Reference OHS/BS)

May cause irritation or drying of the eyes and respiratory tract.

Chronic Effects:

(Reference OYXY)

Long-term exposure to concentrations in excess of the PEL/TLV may result in chronic bronchitis (cough and production of excess mucous), irritation of the throat, increased sputum, tightness of the chest, wheezing and decreased endurance. Human epidemiologic studies and/or animal studies indicate that this chemical could cause or contribute to the development of cancer. In accordance with the Hazard Communication Standard, chemicals identified as causing cancer are referenced in one of the following: OSHA (Occupational Safety and Health Administration) carcinogen list, National Toxicology Program carcinogen list, IARC group I or II carcinogens, referenced in the NIOSH RTECS (National Institute of Occupational Safety and Health's Registry of Toxic Effects of Chemical Substances) database as "tumorigenic," or shown to be a cancer causing substance in at least one valid scientific study. Exposure to this chemical should be minimized.

Appendices

Appendix 1: Manufacturer's Chemical Comments : COAL TAR PITCH ()

Exposure Limit (Product): *For coal tar pitch volatiles, OSHA-PEL is 0.2 mg/m3 averaged over an 8 hour work shift, benzene soluble fraction of total particulate including dust, fumes, and mists. HAZARDOUS INGREDIENTS/CAS NUMBER/% BY WT. Coal Tar Pitch/ 65996-93-2/100. 1-Nitropyrene/5522-43-0/<2. Benzo (a) anthracene/56-55-3/<1. Benzo (b) fluoranthene+/205-99-2. Benzo (k) fluoranthene+/207-08-9. Benzo (j) fluoranthene+/205-82-3. 7,12-Dimethylbenz (a) anthracene/57-97-64 (cas number questionable)/<4. Dibenz (a,j) acridine/224-42-0/<1. Dibenz (a,h) acridine/226-36-8/<1. Benzo (g,h,i) pyrene+. 7H Dibenzo (c,g) carbazole/194-59-2/<1. Dibenzo (a,l) pyrene/191-30-0/<1. Dibenzo (a,e) pyrene/192-65-4/<1. Dibenzo (a,h) pyrene/189-64-0/<1. Benzo (a) pyrene/50-32-8/<2. Chrysene/218-01-9/<2. Dibenz (a,h) anthracene/53-70-30

MATERIAL SAFETY DATA SHEET (MSDS) ** ACTIVE PRODUCT - Intalco

Product: #5001695 ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH

(53-70-3)/<1. Indeno(1,2,3-cd)pyrene/193-39-5/<1.

(-end-)

Product: #5001695 ELECTRODE, AROMATIC, BINDER, TARGET, CORE & COAL TAR PITCH

MATERIAL SAFETY DATA SHEET (MSDS) ** ACTIVE PRODUCT

Contents	Page#
* SECTION I MANUFACTURER AND PRODUCT.....	1
* SECTION II CHEMICAL INGREDIENTS.....	1
* SECTION III PHYSICAL DATA.....	2
* SECTION IV FIRE & EXPLOSION DATA.....	2
* SECTION V HEALTH HAZARDS.....	3
* EMERGENCY FIRST AID PROCEDURES.....	4
* SECTION VI REACTIVITY DATA.....	5
* SECTION VII SPILL OR LEAK PROCEDURE.....	5
* SECTION VIII SPECIAL PROTECTION INFORMATION.....	6
* SECTION IX SPECIAL PRECAUTIONS.....	7
* SECTION X REGULATORY/REFERENCE INFORMATION.....	7
* SECTION XI OTHER PRODUCT INFORMATION.....	8
* SUPPLEMENT A AREAS OF USE.....	8
* SUPPLEMENT B HEALTH EFFECTS OF INGREDIENTS.....	9
Indices.....	9
- Appendix 1: Manufacturer's Chemical Comments : COAL TAR PITCH (U).....	

The information contained in this electronic Material Safety Data Sheet (MSDS) has been enhanced, repackaged, and edited from an original manufacturer's MSDS. The original manufacturer's MSDS is available from the Intalco Industrial Hygienist upon request.
