# MARKETED BY **HARWICK STANDARD** DISTRIBUTION CORPORATION

60 S. Seiberling Street • Akron, Ohio 44305

## PIONEER ASPHALT CORPORATION

MATERIAL SAFETY DATA SHEET May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements

U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration Form Approved OMB No. 1218-0072

#### Pioneer 020 IDENTITY

Section I Manufacturer's Name & Address Pioneer Asphalt Corporation 802 Ash St. Lawrenceville, Illinois 62439 Date Prepared 1/9/91

Emergency Telephone Number 618/943-3341 Telephone Number for Information 618/943-3341

Section II - Hazardous Ingredients/Identity Information NE=Not Established Components (Specific Chemical Identity: Common Name(s)) Other Limits Fumes CAS #8052-42-4 RECOMMENDED % OPTIONAL CAS# Product - Mixture OSHA PEL ACGIH TLV  $5mg/m^3$  $5mq/m^3$ (NIOSH) HMIS (Product) H-1 F-1 R-0 N.E. STEL - 10mg/m<sup>3</sup> Section III - Physical/Chemical Characteristics

Specific Gravity (H2O=1) Boiling Point Deg. F. 1BP Approximately 550 Melting Point Vapor Pressure (mm Hg) Deg. F. (Ring & Ball) <100 <0.1 @ 20 Deg C. Liquid at Room Temperature Vapor Density (Air=1) Evaporation Rate >5 (Butyl Acetate=1) Solubility in Water <0.01 @ 77 Deg F Negligible

Appearance and Odor Dark Brown to Black; Mild petroleum like

Section IV - Fire and Explosion Hazard Data (Vol. % of vapors in air) Flammable Limits LEL Flash Point (Method Used) Vol. % of vapors C.O.C. 300 + Deg. F.in air Extinguishing Media

Foam, water spray, (fog), Dry Chemical, CO2 Special Fire Fighting Procedures

Minimum breathing of vapors, gasses, fumes or decomposition products, use supplied air breathing equipment for enclosed or confined spaces.

Unusual Fire and Explosion Hazards When heated above flash point, material will release flammable vapors whi can burn or be explosive in confined spaces if ignited. Do not mix with strong oxidants such as liquid chlorine and concentrated oxygen.

Section V - Reactivity Data Stability Unstable Conditions to Avoid Do not overheat, auto-ignition may occur if heated beyond 600 Deg F Stable X

Incompatibility (materials to avoid)

May react with strong oxidizing materials

Hazardous Decomposition or Byproducts

Carbon monoxide, carbon dioxide, oxides of sulfur & nitrogen are possible under extreme uncontrolled fire.

Hazardous

May Occur

Conditions to Avoid

Polymerization Will Not Occur X

None Known

Section VI - Health Hazard Data

Route of entry:

Inhalation?

Skin?

Ingestion?

yes

yes

Not normally

Health Hazards (Acute & Chronic)

The cool solid material is not expected to cause eye or skin irritation, nor is it expected to have acute systemic toxicity by ingestion. See paq∈ 3 for hot material health effects.

Carcinogenicity:

NTP? No

IARC MONOGRAPHS?

OSHA Regulated?

Signs and Symptoms of Exposure

Upper respiratory tract, eye and skin irritation. Fumes from hot material may cause nausea and irritation of upper respiratory tract.

See Page 3

Medical Conditions Generally Aggravated by Exposure

None Known

Emergency and First Aid Procedures

See Page 3

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled.

Eliminate ignition sources. Recover free product. Add sand, earth, or other suitable absorbent to spill area. Let cool. Scrape up into suitabl containers.

Waste Disposal Method

Dispose of in accordance with local state and federal regulations.

Precautions to Be Taken in Handling and Storing

Avoid open Flames, Health Studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person.

Other Precautions

Minimize breathing vapor mist and fumes. Avoid prolonged and repeated contact with skin.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Use supplied air respirator in confined areas or when vapors exceed TLV Limits

Ventilation Local Exhaust

Special

in Enclosed areas Mechanical (General)

None Other

in Enclosed areas

None

Protective Gloves

Eye Protection

Insulated for hot material

Safety glasses or face shield

Other Protective Clothing or Equipment

Long sleeves and impervious clothing for hot materials

Work/Hygienic Practices

See Section VII

### ADDITIONAL HEALTH DATA

No association has been established between industrial exposure to petroleum asphalt and cancer in humans. The International Agency for Research on Cancer (IARC) has recently reviewed the carcinogenic potential of asphalts. They concluded that there was insufficient evidence that undiluted, air-refined asphalt was carcinogenic to animals, while there was only limited evidence that steam-refined asphalts were carcinogenic to animals. Additionally, there was insufficient evidence to conclude that asphalts were carcinogenic to human beings. Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt product is not expected to produce any serious effects. normal handling of this product is not likely to cause cancer in humans, skin contact and breathing of mists, fumes or vapors should be reduced to a minimum,. We strongly recommend that the precautions outlined in this MSDS be followed when handling this material.

Some asphalts contain sulfur compounds which may form H S when heated. The rotten egg odor of H S is unreliable as an indicator of concentration because it may be entirely masked by the odor of the asphalt. Signs and symptoms of overexposure to  $\rm H_2$  S include respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal disturbances, coughing a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness  $\rm H_2$  S concentrations of 1000-2000 ppm can be extremely hazardous. Death has occurred following exposure to 600 ppm.

### EMERGENCY & FIRST AID PROCEDURES

EYES: If the hot material should splash into the eyes, flush eyes immediately with fresh water while holding the eyelids open. See a doctor.

SKIN: If the hot, melted material gets on skin, quickly cool in water. See a doctor for extensive burns. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin.

INHALATION: If there are signs or symptoms as described in this MSDS due to breathing this material, move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor.

INGESTION: Since this material is not expected to be an ingestion problem, no first aid procedures are required.

Tim Reeder, R&D Lab Technician

I'm Realing