

MATERIAL SAFETY DATA SHEET (MSDS)

Please retain for your records.

September 18, 1989

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IAL INFORMATION BULLETIN
oved - "Essentially Similar" to Form OSHA 20 & OSHA
Material Safety Data Sheet)

Y (As Used on Label and List)
J-Patch

Perma-Patch

Manufacturer's Name
The National Paving and Contracting Company
4200 Manio Drive
Baltimore, Maryland 21215
Emergency Phone: 1-301-435-7492
Telephone Number for Information: 1-301-764-7117

TYPICAL COMPOSITION	OSHA PEL	ACGIH TLV	%
Petroleum Asphalt with	None		
Petroleum Distillate	established	5 mg/cu.m.	5
Limestone	15 mg/cu.m.	10 mg/cu.m.	95
Additives	None Established by OSHA		1

PHYSIOLOGICAL & HEALTH EFFECTS PROCEDURES

EMERGENCY & FIRST AID

EYES
Expected to cause no more
than minor eye irritation.
If irritation continues,
see a doctor.

Wash eyes with fresh water
for at least 15 minutes.

SKIN

Expected to produce no more
than minor skin irritation but
prolonged or frequently repeated
skin contact may be harmful. See
additional Health Data.
ails from skin. Asphalt can
be removed with vegetable oil
or mineral oil.

Remove heavily contaminated
clothing and wash skin
thoroughly with soap and
water. DO NOT use solvents
or thinners to remove mater-

INHALATION

Prolonged breathing of high vapor
concentrations can cause central
nervous system depression. See
ial, move the person to fresh
air. If any of these effects
continue, see a doctor.

If there are signs or systems,
as described in this bulletin,
due to breathing this mater-

INGESTION

Not expected to be acutely toxic
by ingestion. NOTE TO PHYSICIAN:
This material contains light hydro-
carbon liquid and an aspiration
all a doctor.

If a large volume of this
material is swallowed, give a
large amount of water to
drink, make person vomit,

**Call a
Doctor**

LOCAL PROTECTIVE INFORMATION

Protection: Avoid contact with
eye contact can be avoided by
on chemical safety goggles.
Protection: Avoid prolonged or
ly repeated skin contact with
terial. Skin contact can be
ized by wearing impervious pro-
e clothing including rubber

ENVIRONMENTAL PROTECTION

Environmental Impact: This
material is not expected to
present any environmental
problems.
Precaution if Material is
Released or Spilled: Eliminate
all open flames in vicinity
of spill or released vapor.

Clean up spills as soon as
Respiratory Protection: If opera-
ting conditions create high airborne
concentrations which exceed the ex-
posure standard, the use of an

possible, observing precau-
tions in Special Protective
Information and on product
label. Place spilled mater-

approved respirator is recommended.
Hydrocarbon material such as
Ventilation: Use adequate ventila-
tion to keep the airborne concentra-
tions of this material below the
exposure standard.
absorbent clay or diatoma-
Other: If skin contact can occur,
washing facilities for skin should be
available nearby.

ial in disposable containers.
kerosene or mineral oil can
be used to dissolve any re-
maining material; and this
material may be absorbed with
aceous earth.

FIRE PROTECTION

Liquid evaporates and forms vapor
(fumes) which can catch fire and
burn with explosive violence.
Invisible vapor spreads easily and
can be set fire by many sources
such as pilot lights, welding
equipment, and electrical motors
and switches. Fire hazard is
greater as liquid temperature
rises above 85 degrees F.

Waste Disposal Methods:

Place contaminated materials
in disposable containers and
bury in an approved dumping
area.

REACTIVITY DATA

Stability (Thermal, Light,
etc.) Stable.

Petroleum Asphalt with Petroleum
Distillate
LIQUID ONLY
Flash Point: (TOC) 150 degrees F (Min)
Autoignition Temp: 480 degrees F (Min)
Flammability Limits: (Asphalt)
UEL 0.3
VEL 6.0
Extinguishing Media: CO2, Dry Chemical,
Foam, Water Spray.
vapor, and may produce oxides
Special Fire Fighting Procedures:
For fires involving this material,
enter any enclosed or con-
fire space without proper
ective equipment, including
contained breathing apparatus.
Hazardous Decomposition Products.

Incompatibility (Materials to
Avoid): May react with strong
oxidizing materials.

Hazardous Decomposition Pro-
ducts: Normal combustion
forms carbon dioxide and water
of sulfur; incomplete combus-
tion can produce carbon
monoxide.

Hazardous Polymerization:
Will not occur.

Read the entire bulletin.
LIQUID ONLY

PHYSICAL PROPERTIES

Solubility: Soluble in most
benzene; insoluble in water

SPECIAL PRECAUTIONS
halogenated hydrocarbons and
See Page 4.
and alcohols.
Appearance (Color, Odor,
etc.): Oily smelling, black
viscous liquid.

Initial Boiling Point: 270
degrees F (Min.)
Melting Point: n/a
Specific Gravity: 0.98
@ 15.6/15.6 C
Vapor Pressure: 2 mm Hg
@ 100 degrees F
Vapor Density: (Air = 1): NDA
Percent Volatile (Volume 96):
25%
Evaporation: (-1): n/a
Viscosity: 250-500 cSt 2
140 degrees F

n/a = Not Applicable
NDA = No Data Available

The above information is based on data of which we are aware and is
believed to be correct as of the date hereof. Since the information
contained herein may be applied under conditions beyond our control and

with which we may be unfamiliar and since data made available subsequent
to the date hereof may suggest modifications of the information, we do not
assume any responsibility for the results of its use. The information is
furnished upon the condition that the person receiving it shall make his
own determination of the suitability of the material for his particular
purpose.

ADDITIONAL HEALTH DATA

Signs and symptoms of ventral nervous system depression may include one of
more of the following: headache, dizziness, loss of appetite, weakness and
loss of coordination. Affected persons usually experience complete re-
covery when removed from the exposure area.

No association has been established between industrial exposure to
petroleum asphalt and cancer in humans. Asphalts contain small amounts
of polynuclear aromatic hydrocarbons (PNA's) which, when concentrated, have
been shown to cause skin cancer in mice after prolonged and frequent
contact. Studies in which mice were exposed to a variety of whole asphalts
did not result in any increased cancer rate. Brief or intermittent skin
contact with this asphalt product is not expected to produce any serious
effects. While 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 bulletin be followed when handling this material.

SPECIAL PRECAUTIONS

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

DO NOT USE OR STORE near flame, sparks or hot surfaces.
USE ONLY IN WELL VENTILATED AREA.