

TO: Diamond B

Report Date : 08/10/99 - Intalco

Product:

SECTION I MANUFACTURER AND PRODUCT

Product: REFINED TARs - *liquid pitch* -  
MSDS #: 5001132

Manufacturer's Name : Koppers Co  
EMERGENCY PHONE NUMBER : 412-227-2426  
Address : 1350 Koppers Building  
:  
: Pittsburgh, PA 15219  
Manufacturer Code : KOPPER

Trade Name : Not Given  
Chemical Name : Not Given  
Chemical Formula : See Other manu. information.

HMIS Codes: Acute: 3 Chronic: 3 Skin: 3 Reactivity: 0 Fire: 1

Manufacturer's HMIS Recommendations:  
Not Given

Manufacturer's Product Code : Commodity Number: 21101001.  
Chemical Name/Classification : Polycyclic hydrocarbon.

Manufacturer's Recommended Use:  
Pavement sealer and coating.

Other Manufacturer Data:  
(Extended text - refer to Appendix 1)

Product Hazards:  
SENSITIZER.  
WHMIS Hazard Class:  
D2A

SECTION II CHEMICAL INGREDIENTS

CAS# or Code	Ingredient	From	To
65996-92-1	COAL TAR DISTILLATE ( )		%100.00000
0%			
ACGIH TLV	: Not Established		
OSHA PEL	: Not Established		
NIOSH REL	: Not Established		

DISPENSARY

ACGIH-TLV=0.2mg/m3.

65996-93-2 COAL TAR PITCH ( ) % %  
ACGIH TLV : 0.2 MG/M3 AS EXTRACT  
OSHA PEL : 0.2 MG/M3 AS EXTRACT  
NIOSH REL : 0.1 MG/M3

Report MSDS.PRINT - Run Date/Time 14:42:54 Aug 10 1999 - Page

Report Date : 08/10/99 - Intalco

Product:

LD50 (ORAL RAT): Not Established  
LC50 : Not Established

For coal tar pitch volatiles, OSHA-PEL is 0.2mg/m3 averaged over an 8 hour work shift, benzene soluble fraction. CAS number: blend of 65996-92-1 and 65996-93-2.

SECTION III PHYSICAL DATA

Boiling Point : Note 1.  
Freezing Point : Not Given  
Vapor Pressure (mm Hg.) : <5 mm at Not Given deg F.  
Vapor Density (Air=1) : > 1  
Specific Gravity (Water=1) : >1.1  
pH (Neutral=7) : Not Established  
Percent Volatile : Negligible%  
Evaporation Rate : <1 (Reference: butyl acet = 1.)  
Water Solubility : Negligible.  
Molecular Weight : Not Given  
Melting Point : Not Applicable  
Oil/Water Particle CoEf : Note 2  
Particle Size : Not Given  
Appearance : Black viscous liquid.  
Physical State : Liquid.  
Odor : Aromatic.  
Odor Threshold : Not Given

Other Physical Data:

Note1: >150 C (>302 F) ibp. Note 2: negligible in water.  
Viscosity: NE. VOC: NA.

SECTION IV FIRE & EXPLOSION DATA

Flash Point : 200.000000 deg F. Method: PMCC  
Autoignition Temp. : Not Applicable deg F.  
Explosion Limits : LEL: Not Applicable UEL: Not Applicable

Extinguishing Media:

Use dry chemical, carbon dioxide, foam or water spray. Water or foam may cause frothing, if molten.

DISPENSARY

full-face MSHA/NIOSH approved self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel. Toxic vapors may be given off in a fire.

**Unusual Fire & Explosion Hazards:**

When heated (fire conditions), vapors/decomposition products may be released forming flammable/explosive mixtures in air. Closed containers may explode when exposed to extreme heat (fire).

**Sensitivity to Impact:**

Not Established

**Other:**

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Report MSDS.PRINT - Run Date/Time 14:42:54 Aug 10 1999 - Page 2

Report Date : 08/10/99 - Intalco

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**Product:**

TDG flammability classification: none.

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**SECTION V HEALTH HAZARDS**

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**Effects of Acute Exposure to Product:**

**Inhalation:**

Overexposure to vapor can result in respiratory tract irritation.

**Skin Contact:**

Contact with skin can result in severe irritation which when accentuated by sunlight may result in a phototoxic skin reaction. Contact with heated material may cause thermal burns.

**Eye Contact:**

Overexposure to vapor can result in irritation and/or corneal changes. Direct eye contact may cause irritation. Contact with heated material may cause thermal burns.

**Ingestion:**

Ingestion of material is unlikely, but may cause gastrointestinal disturbances including irritation, nausea, vomiting, abdominal pain and in extreme cases cardiovascular involvement.

**Effects of Chronic Exposure to Product:**

**Inhalation:**

Repeated and/or prolonged contact to high concentrations of vapor may result in respiratory difficulties, central nervous system (CNS) effects and possible cardiovascular collapse.

**Skin Contact:**

Repeated and/or prolonged contact may cause more serious skin disorders including cancer.

**Eye Contact:**

Not Given

**Ingestion:**

Not Given

DISPENSARY

Route of Entry.....

ISkin Contact	ISkin Absorption	IEye Contact	I Inhalation	I Ingestion
Yes	No	Yes	Yes	No

Manufacturer's Route of Entry Information:  
 Inhalation, ingestion, skin contact, eye contact.

Medical Conditions Which May Be Aggravated:  
 Not Given

Exposure Limits : Refer to Section II

Report MSDS.PRINT - Run Date/Time 14:42:54 Aug 10 1999 Page 1

Report Date : 08/10/99 - Intalco

**Product:**

Sensitization to Product : No  
 Teratogenicity : No  
 Mutagenicity : No  
 Synergistic Products : Other skin irritants or sensitizers  
 Irritancy of Product : Yes  
 Carcinogenicity : No  
 Non  
 Reproductive Toxicity : No

**Other Manufacturer's Health Effects Data:**

This product contains coal tar pitch. IARC Monographs (Volume 35) states that there is sufficient evidence that coal tar pitches are carcinogenic in humans. Additionally, there is sufficient evidence that occupational exposure to coal tars as it occurs during the destructive distillation of coal is casually associated with the occurrence of skin cancers in humans. Persons with a history of liver, kidney, skin or respiratory diseases or exposure to materials harmful to these systems are at a greater than normal risk of developing adverse health effects when working with this product. No known ingredients which occur at greater than 0.1%, other than those listed above, are listed as a carcinogen in the IARC Monographs on the Evaluation of Carcinogen Risk of Chemicals to Humans, the NTP Annual Report on Carcinogens or OSHA 29 CFR 1910.1001-1047 subpart Z Toxic and Hazardous Substances (Specifically Regulated Substances).

**EMERGENCY FIRST AID PROCEDURES**

**Eye Contact:**

Immediately flush with large amounts of water for 15 minutes.  
 Seek medical aid.

**Skin Contact:**

Wash thoroughly with waterless hand cleaner. 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. **DISPENSARY**

remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as indicated. Seek medical aid.

**If Swallowed:**

If victim is conscious and alert, give 1-2 glasses of water or milk. Induce vomiting using ipecac syrup as directed on the label. After vomiting, the victim may be given a slurry of 100g of activated charcoal in 8 oz. of water. Seek medical aid.

**Notes to Physician:**

Not Given

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Report MSDS.PRINT -

Run Date/Time 14:42:54 Aug 10 1999

Page 4

Report Date : 08/10/99 - Intalco

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**Product:**

**SECTION VI**

**REACTIVITY DATA**

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**Stability:**

Not Given

**Conditions to Avoid:**

None known.

**Incompatibility:**

None known.

**Hazardous Decomposition Products:**

Toxic fumes may be emitted when burned.

**Hazardous Polymerization:**

Conditions contributing to hazardous polymerization: none.

**Polymerization Conditions to Avoid:**

Not Given

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**SECTION VII**

**SPILL OR LEAK PROCEDURE**

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**Manufacturer's Recommended Spill/Cleanup Procedure:**

Stop leak if no risk involved. Stay upwind. Solidified spills: Shovel into dry containers and cover. Small wet spills: Take up with sand or other noncombustible absorbent material. Flush area with water. Dike large spills for later disposal. Contain runoff from fire control and dilution water.

**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 have been

DISPENSARY

health because of carcinogenicity are hazardous wastes, as well as of as a hazardous waste in the state of California.

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

Report MSDS.PRINT - Run Date/Time 14:42:54 Aug 10 1999 Page 5

Report Date : 08/10/99 - Intalco

Product:

USE IF PEL IS NOT EXCEEDED.

Use a NIOSH-approved half-mask respirator with ORGANIC VAPOR CARTRIDGE AND PREFILTER FOR DUSTS AND MISTS, if concentration less than 10 times PEL.

Use a NIOSH-approved full-mask respirator with ORGANIC VAPOR CARTRIDGE AND PREFILTER FOR DUSTS AND MISTS, 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:

Not required under normal use conditions. If ventilation does not maintain inhalation exposures below TLV (PEL), Use MSHA/NIOSH approved units as per current 29 CFR 1910.134 and manufacturers' "Instructions" and "Warnings". Combination filter/organic vapor cartridges or canister may be used.

Ventilation (Technical Control):

See manufacturer's recommendation.

Manufacturer's Recommended Ventilation:

Provide sufficient general/local exhaust ventilation in pattern/volume to control inhalation exposures below current exposure limits and areas below flammable vapor concentrations. Local exhaust is necessary for use in enclosed or confined spaces. See OSHA Requirement/NIOSH Pub. 80-106 "Working in a Confined Space".

Shumacher & Associates Recommended Gloves:

Recommended glove type is 4H, manufactured by Safety 4.

Manufacturer's Recommended Gloves:

DISPENSARY

predicted from pure components or chemical materials are normally best estimates based on available pure component data. A significant difference in chemical breakthrough time has been reported for generically similar gloves from different manufacturers (AIHJ., 40, 941-947 1987).

Shumacher & Associates Recommended Eye Protection:  
See manufacturer's recommendation.

Manufacturer's Recommended Eye Protection:  
Industrial safety glasses, minimum. As necessary to comply with 29 CFR 1910.133 and work area conditions: use side shields, goggles or face shield.

Shumacher & Associates Recommended Other Protection:  
None.

Manufacturer's Recommended Other Protection:

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Report MSDS.PRINT - Run Date/Time 14:42:54 Aug 10 1999 Page 6  
Report Date : 08/10/99 - Intalco

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Product:

Depending on working conditions, i.e., contact potential, wear impervious protective garments such as head/neck cover, aprons, jackets, pants, coveralls boots, etc.

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SECTION IX SPECIAL PRECAUTIONS

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Manufacturer's Recommended Handling & Storage:

Avoid prolonged or repeated breathing of vapors, mists or fumes. Avoid breathing of fumes, mists, or smoke. Observe good personal hygiene practices and recommended procedures. Application of certain protective creams (sun screens for coal tar products) before working/several times during work may be beneficial. Keep in a closed, labeled container within a cool (well shaded), dry-ventilated area. Protect from physical damage. Keep containers closed when material is not in use. Maintain good housekeeping.

Other Manufacturer Special Precautions:

Not for use or storage in or around the home. DO NOT TAKE INTERNALLY. Do not use until manufacturer's precautions have been read/understood. Wash exposed areas promptly and thoroughly after skin contact and before eating, drinking, using tobacco products or rest rooms.

SECTION X REGULATORY/REFERENCE INFORMATION

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DOT Shipping Name : Not Applicable  
DOT/International Classification System Label: Not Applicable  
DOT Number : Not Regulated

DISPENSARY

Other Manufacturer's Regulatory References:

DOT proper shipping name: none. DOT hazard class: none. UN/NA number: none.

SARA Title III - Sections 311, 312, and 313:

CERCLA Reportable Quantity for Mixture (Final RQ, Released Amount Requiring Notification, in Pounds, 40CFR302)

EPA Reporting Requirements of Chemical Components of this Product:

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Report MSDS.PRINT - Run Date/Time 14:42:54 Aug 10 1999 Page 7

Report Date : 08/10/99 - Intalco

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Product:

Form R reporting requirement and de minimus exemption level for each 40CFR372, threshold planning quantity (TPQ, maximum storage level triggering TIER II report, 40CFR355) in pounds, and CERCLA reportable quantities (final RQ, released amount requiring notification, 40CFR302) in pounds:

CAS# or CODE	Ingredient		
65996-92-1	COAL TAR DISTILLATE ( )		
	TPQ: Form R:	De Minimus:	CERCLA:
65996-93-2	COAL TAR PITCH ( )		
	TPQ: Form R:	De Minimus:	CERCLA:

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Prepared By:

Occupational Health and Product Safety Department.

Michelle Copeland, CIH, General Mgr (Shumacher & Associates Inc.)

Preparer's Telephone #

Not Given

(206) 443-4276 (Shumacher & Associates Inc.)

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Manufacturer's Disclaimer:

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Koppers Industries makes no warranty with respect thereto and disclaims all liability from reliance thereon.

Shumacher & Associates Disclaimer:

(This text has not yet been supplied)

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Appendices

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Appendix 1: Other Manufacturer Data

CHRONIC OVEREXPOSURE (as defined by OSHA recommended standards) MAY CAUSE CANCER. WARNING: HARMFUL TO THE SKIN OR IF INHALED OR SWALLOWED. CAUSES EYE AND SKIN IRRITATION. AVOID PROLONGED OR REPEATED CONTACT. OBSERVE GOOD HYGIENE AND SAFETY PRACTICES WHEN HANDLING THIS PRODUCT. DO NOT USE THIS PRODUCT UNTIL MSDS HAS BEEN READ AND UNDERSTOOD. Canadian Product Classification: Class D, Division 2, Subdivision A, very toxic material. Medical Emergencies: 1-800-553-5631, Outside USA: 412-227-2001, General information: 412-227-2884, Chemtrec assistance: 1-800-424-9300, Canutec: 1-613-996-6666. Synonyms: K-1139, K-1535, KC 261,

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Report MSDS.PRINT - Run Date/Time 14:42:54 Aug 10 1999 - Page

Report Date : 08/10/99 - Intalco

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Product:

KC-301, K-364, KC-649, KC-790, K-259. Formula: complex mixture of hydrocarbons. Specification sheet number: TP-1130-S, 1407-C. Code number: IND00A34JU8911. Replaces sheet: IN00A34MY89.

(-end-)

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Report Date : 08/10/99 - Intalco

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Product:

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Report Date : 08/10/99  
Manufacturer's MSDS Date : 06/01/89  
Date Entered : 07/09/92

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Contents	Page#
* SECTION I MANUFACTURER AND PRODUCT.....	1
* SECTION II CHEMICAL INGREDIENTS.....	1
* SECTION III PHYSICAL DATA.....	2
* SECTION IV FIRE & EXPLOSION DATA.....	2

DISPENSARY

* EMERGENCY FIRST AID PROCEDURES.....	5
* SECTION VI REACTIVITY DATA.....	5
* SECTION VII SPILL OR LEAK PROCEDURE.....	5
* SECTION VIII SPECIAL PROTECTION INFORMATION.....	7
* SECTION IX SPECIAL PRECAUTIONS.....	7
* SECTION X REGULATORY/REFERENCE INFORMATION.....	8
* SECTION XI OTHER PRODUCT INFORMATION.....	8
* SUPPLEMENT A AREAS OF USE.....	8
* SUPPLEMENT B HEALTH EFFECTS OF INGREDIENTS.....	9
* Appendices.....	9

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 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.  
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