

Material Safety Data Sheet

Section I – Chemical Product and Company Identification

Product Name: PITWRAP® CW Plus Jacketing/Membrane

Manufacturer/Supplier:

Pittsburgh Corning Corporation

800 Presque Isle Drive

Pittsburgh, PA 15239

Information Number: 724-327-6100

CHEMTREC: 800/424-9300

Issue Date: 31 May 2001

revision 1

Generic Name: Modified Bitumen Membrane

CAS Number: N. AP.

CAS Name: N. AP.

NFPA HAZARD CLASS: Health: 1 Fire: 1 Reactivity: 0

Use: PITWRAP® CW Plus jacketing is a self-sealing membrane for protecting underground FOAMGLAS® insulation systems.

General Comments

General information and emergency information available 8:00 AM – 5:00 PM Monday through Friday.

CHEMTREC telephone number is to be used only in the event of chemical transportation emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to technical service.

NA = not applicable

NE = not established

UN = unavailable

Section 2 – Composition/Information on Ingredients

(See Section 11 for Complete Chemical Names)

EXPOSURE LIMITS

Ingredient	CAS number	% by weight	ACGIH* TLV	OSHA** PEL	NTP IARC OSHA
Asphalt	8052-42-4	45-55	0.5 mg/m ³	NE	see sections 3 & 11
Heavy paraffinic extract	64742-04-7	5-15	NE	NE	see sections 3 & 11
Carbon Black	1333-86-4	10-25	3.5 mg/m ³	3.5 mg/m ³	See Sections 3 & 11

* ACGIH = American Conference of Governmental Industrial Hygienists

** OSHA = Occupational Safety and Health Administration, U.S. Department of Labor, 29 CFR 1910.1000

Material Safety Data Sheet

EXPOSURE GUIDELINES – CANADA

Employers should check with provincial regulatory agencies for exposure guidelines, which may vary locally.

SECTION 3 – HAZARDS IDENTIFICATION

Emergency Overview:

Warning Statements:

**WARNING! MAY CAUSE SLIGHT IRRITATION.
MAY BE HARMFUL IF IN CONTACT WITH OR ABSORBED
THROUGH THE SKIN.**

- ... Contains Asphalt CAS# 8052-42-4, CAS# 64742-93-4, heavy paraffinic extract, and carbon black CAS #1333-86-4.
- ... Repeated skin contact with Rubberized asphalt adhesive in this product may result in slight irritation. Prolonged or repeated skin contact with the Unprocessed naphthenic oils contained in the Rubberized asphalt in this product may, without washing, cause an increased risk of skin cancer, liver damage, blood effects and effects on the unborn based on tests with laboratory animals. Skin cleansing studies with aromatic oils show that the toxic effects are not likely to occur in humans if good personal hygiene practices are used.
- ... Eye contact with oil residue on hands may result in irritation.
- ... Read and understand all Health and Safety information on the product Label and Material Safety Data Sheet before use.

SYMPTOMS/EFFECTS OF OVEREXPOSURE:

- Acute: Excessive inhalation of fumes from hot compound can cause nausea and respiratory irritation.
- Chronic: Due to the aromatic and polynuclear aromatic compounds in this product, extended contact could theoretically cause cancer although specific data for this product has not been established. Skin contact, breathing of mists, fumes or vapors should be reduced to a minimum to avoid any ill effects.

Material Safety Data SheetSkin and Eye:

SKIN: Prolonged or repeated contact with the Unprocessed naphthenic oils in this product may produce serious toxic effects including skin cancer. Animal tests indicate that prolonged and repeated skin contact to the oils in this product may produce local skin tumors.

EYE: Eye contact with oil residue may result in irritation.

Ingestion:

There are no known health effects due to ingestion. Due to the physical nature of this product, ingestion is unlikely. Wash hands completely before eating.

Carcinogenicity Information:

Heavy paraffinic extract: This product contains 5-15% of a heavy paraffinic extract which has been shown to cause cancer in laboratory animals. It is classified by IARC as a positive human carcinogen, group 1.

Petroleum Asphalt: In March 1987 the International Agency for Research on Cancer (IARC) classified bitumens (such as the petroleum asphalt in this product) as a Group 3 material, "not classifiable as to its carcinogenicity to humans". This classification was made based on inadequate evidence for the carcinogenicity of undiluted air-refined bitumens in experimental animals and inadequate evidence that bitumens alone are carcinogenic to humans. However, Asphalt does contain a small amount of Polycyclic aromatic hydrocarbons which have been shown to cause cancer and respiratory damage in animals. NIOSH recently conducted mouse skin painting studies using selected fractions of Asphalt fume condensate. Skin application of the condensate fractions resulted in skin tumors in laboratory mice.

Laboratory animals exposed to repeated applications of Asphalt materials for their entire lifetime have developed skin tumors primarily at the site of application. The Asphalt material was not washed off between exposures. Intermittent or occasional skin contact with petroleum Asphalts is not expected to have serious health effects as long as good personal hygiene measures, such as those outlined in this Material Safety Data Sheet, are followed.

No carcinogenic effects were observed during lifetime inhalation studies with laboratory animals; although lung damage in the test animals was observed. Findings included bronchitis, pneumonitis and abscess formation, among others, similar to problems caused by other non-specific irritants.

Carbon Black: There is sufficient evidence in experimental animals for the carcinogenicity of carbon black. Carbon black is possibly carcinogenic to humans (group 2B).

Material Safety Data Sheet

SECTION 4 – FIRST AID MEASURES

- EYES:** Flush with large amounts of water, lifting upper and lower lids occasionally. **SEEK MEDICAL ATTENTION.**
- SKIN:** Should molten material strike the skin, flush area with cold water; do not forcibly remove material adhering to the skin. Thoroughly wash exposed area with mineral oil and then flush with water. **SEEK MEDICAL ATTENTION.**
- INGESTION:** Due to the nature of the product, ingestion is unlikely. If ingested, do not induce vomiting. Call the poison center immediately. **SEEK MEDICAL ATTENTION.** Never give anything by mouth to an unconscious person.
- INHALATION:** If excessive inhalation of fumes from hot compound occurs, remove individual to fresh air. Treat symptomatically and **SEEK MEDICAL ATTENTION.**

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: >600°C Flammable Limits: LEL NA UEL NA

Flammability Classification: OSHA IIIB DOT: Not regulated

Extinguishing Media: Foam CO₂ Alcohol Foam
 Dry Chemical Water Fog Other

Special Fire Fighting Procedures: Do not use water except as fog. Self-contained breathing apparatus with full-face piece operated in pressure demand or other positive pressure mode is required for fire fighting personnel.

Unusual Fire and Explosion Hazards: None expected.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PROCEDURES: If spill is larger, dike and allow to cool and solidify. Shovel material into containers for disposal.

WASTE DISPOSAL METHOD: Dispose of material in accordance with federal, state and local regulations. Before attempting clean up, refer to hazardous information listed on this sheet.

Material Safety Data Sheet

SECTION 7 – HANDLING AND STORAGE

Precautionary Measures:

... FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY: None normally needed. If working with hot compound, use appropriate respiratory protection or ventilate area to maintain exposure below TLV.

EYEWEAR: None normally needed. If working with hot compound, safety glasses with side shields or chemical goggles should be worn.

CLOTHING/GLOVES: Normal work clothing covering arms and legs.

VENTILATION: None normally needed. If working with hot compound, ventilate area to maintain exposure below TLV.

WORK/HYGENIC PRACTICES: Avoid rubbing eyes while handling. Due to the physical nature of this product, ingestion is unlikely. Incidental ingestion of rubberized asphalt residue on hands can be avoided by using good personal hygiene practices.

SPECIAL PRECAUTIONS: Exercise precautions to prevent thermal burns when handling hot compound. This compound is combustible. Avoid prolonged contact of compound with skin.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F.):	N/A	Specific Gravity (H ₂ O = 1):	1.026
Vapor Pressure (MM Hg):	N/A	Percent Volatile By Volume (%):	Nil
Vapor Density (Air = 1)	N/A	pH:	N/A
Solubility in Water:	Nil	Evaporation Rate (BuAC=1)	N/A

Appearance and Odor: Black tacky bitumen compound with aluminum foil top film. Odor is asphaltic.

Material Safety Data Sheet

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Normally stable. Hazardous polymerization will not occur. Material is combustible and should be stored away from excessive heat and flames.

INCOMPATIBILITY: Strong oxidizers like chlorine, pure oxygen or calcium hypochlorite.

HAZARDOUS DECOMPOSITION PRODUCTS: Will produce fumes, carbon monoxide and various other complex hydrocarbons during combustion.

SECTION 11 – TOXICOLOGICAL INFORMATION

INGREDIENT Chemical Name, CAS #	TOXICITY DATA: LD ₅₀ & LC ₅₀ (See Section 2 for Exposure Limits)
------------------------------------	---

PETROLEUM ASPHALT, ASPHALT fume ASPHALT CAS# 8052-42-4	No Toxicity Data Available
--	----------------------------

HEAVY PARAFFINIC DISTILLATE SOLVENT, MINERAL OIL HEAVY PARAFFINIC EXTRACT CAS#64742-04-7	LD ₅₀ Oral (Rat) = 5 g/kg
--	--------------------------------------

CARBON BLACK CAS # 1333-86-4	LD ₅₀ Oral (Rat) > 8,000 mg/kg
---------------------------------	---

SECTION 12 – ECOLOGICAL INFORMATION

None Available At This Time

SECTION 13 – DISPOSAL CONSIDERATIONS

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

SECTION 14 – TRANSPORT INFORMATION

Transportation Hazard Classification

PITTWRAP® CW Plus Jacketing is not classified as hazardous by DOT regulations.

Material Safety Data Sheet

SECTION 15 – REGULATORY INFORMATION

(Not Meant To Be All Inclusive.)

SARA TITLE III REPORTING INFORMATION**Tier I & II HAZARD CATEGORIES:**

DELAYED (CHRONIC) HEALTH

IMMEDIATE (ACUTE) HEALTH

Contains Extremely Hazardous-SARA III Section 302 Ingredient: No

Comments:

Contains Toxic Chemical Release-SARA III Section 313 Ingredient: No

Comments:

Other Government Reporting Requirements:

CHEMICAL INVENTORY CERTIFICATION:**For U.S. Products ONLY**

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) Inventory or exempt from listing on the TSCA Inventory.

SECTION 16 – OTHER INFORMATION

“THE DATA INCLUDED HEREIN ARE PRESENTED IN ACCORDANCE WITH VARIOUS ENVIRONMENT, HEALTH AND SAFETY REGULATIONS. IT IS THE RESPONSIBILITY OF A RECIPIENT OF THIS DATA TO REMAIN CURRENTLY INFORMED ON CHEMICAL HAZARD INFORMATION, TO DESIGN AND UPDATE ITS OWN PROGRAM AND TO COMPLY WITH ALL NATIONAL, FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS APPLICABLE TO SAFETY, OCCUPATIONAL HEALTH, RIGHT-TO-KNOW AND ENVIRONMENTAL PROTECTION.”

While the information and recommendations set forth herein are believed to be accurate, Pittsburgh Corning Corporation makes no warranty with respect thereto, and disclaims all liability from reliance thereon.

PITTWRAP® CW Plus is a registered trademark of Pittsburgh Corning Corporation.