

MATERIAL SAFETY DATA SHEET

Manufacturer: Ramco Insulation, Inc.

Address: 2021 Roosevelt

Box 2173

Joplin, Mo. 64803

Phone: 417-781-9192

Date of Preparation: August 1, 2012

Prepared by Richard A. Moss

SECTION I: Product Name: RAMWRAP PIPE AND TANK INSULATION

SECTION II: PRODUCT INGREDIENTS

1. FIBROUS GLASS WOOL

CAS NUMBER: 65997-17-3

COMMON NAME: FIBERGLASS

EXPOSURE LIMITS: OSHA PEL 5 mg/m³ respirable dust

ACGIH TLV 10 mg/m³ total dust

PERCENT: 93 TO 99%

2. MINERAL WOOL FIBER

CAS NUMBER: NONE ASSIGNED

COMMON NAME: ROCK WOOL, MINERAL WOOL, SLAG WOOL

EXPOSURE LIMITS: OSHA PEL: 5 mg/m³ respirable dust

ACGIH TLV: 10 mg/m³ total dust

PERCENT: 93 TO 99%

3. UREA EXTENDED PHENOL FORMALDEHYDE RESIN (CURED)

CAS NUMBER: 25104-55-6

EXPOSURE LIMITS: NOT ESTABLISHED

PERCENT: LESS THAN 0.2%

4. NON WOVEN, AP, FSK FACINGS CAS

NUMBER: NONE ASSIGNED EXPOSURE

LIMITS: NOT ESTABLISHED PERCENT:

2 TO 5%

5.H.B. FULLER/FOSTER DUCT FAS ADHESIVE-SPRAY (CURED)

CAS NUMBER: CYCLOHEXANE 110-82-7

CHLORINATED PARAFFIN 63449-39-8

EXPOSURE LIMITS: OSHA PEL: NOT ESTABLISHED

PERCENT: LESS THAN 1%

6. CONTINUOUS FILAMENT FIBEROUS GLASS BONDED WITH PHENOLIC RESIN

CAS NUMBER 65997-17-3

COMMON NAME: FIBERGLASS MAT FACING

EXPOSURE LIMITS: OSHA PEL: 5 mg/m³ respirable dust

ACGIH TLV: 10 mg/m³ total dust

PERCENT: LESS THAN 1%

SECTION III - PHYSICAL DATA

BOILING POINT: N/A

MELTING POINT: FIBEROUS GLASS 1600F

MINERAL FIBER 2000F

VAPOR PRESSURE: N/A

SOLUBILITY IN WATER: NONE

APPEARANCE: GREENISH MINERAL WOOL OR YELLOWISH FIBERGLASS WITH WHITE KRAFT PAPER, SILVER FOIL PAPER, OR GLASS MAT FACING.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F.): INCOMBUSTIBLE

FLAMMABILITY LIMITS: LEL=N/A UEL=N/A

EXTINGUISHING MEDIA: WATER FOAM, DRY CHEMICAL, CO₂

UNUSUAL HAZARDS: NONE. PAPER AND FOIL FACINGS CAN BURN. CARE SHOULD BE TAKEN WHEN WORKING CLOSE TO OPEN FLAME.

SECTION V - REACTIVITY DATA

STABILITY: MATERIALS ARE STABLE

INCOMPATIBILITY: NONE

HAZARDOUS DECOMPOSITION: ADHESIVES, BINDERS AND FACINGS BURN DURING FIRES, RELEASING CARBON MONOXIDE, CARBON DIOXIDE, WATER AND CARBON PARTICULATES.

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTE OF ENTRY: INHALATION, EYE AND SKIN CONTACT

INHILATION: ACUTE: THE RELEASE OF FIBER DURING NORMAL HANDLING

MAY CAUSE IRRITATION TO THE NOSE OR THROAT
CHRONIC: THE IARC HAS ASSIGNED FIBEROUS MATERIAL
AS CATEGORY 2B, OR POSSIBLE CARCINOGENIC.

EYE CONTACT: ACUTE: CAN CAUSE IRRITATION
CHRONIC: NONE KNOWN

SKIN CONTACT: ACUTE: CAN CAUSE IRRITATION
CHRONIC: NONE KNOWN

INGESTION: ACUTE: CAN CAUSE IRRITATION
CHRONIC: NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: CLEAR THROAT AND BLOW NOSE TO REMOVE FIBERS

SKIN CONTACT: WASH SKIN AND RINSE WITH WATER

EYE CONTACT: FLUSH EYE WITH WATER, IF CONDITION PERSISTS SEEK
MEDICAL AID

INGESTION: TREAT AS FOR INHALATION. NO CHRONIC EFFECTS ARE
KNOWN.

LEAK AND DISPOSAL PROCEDURES:

FOLLOW NORMAL CLEAN UP PROCEDURES. AVOID DUST. THESE
PRODUCTS ARE CLASSIFIED NON-HAZARDOUS, AND MAY BE LAND
FILLED.

SECTION VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: SUFFICIENT VENTILATION TO KEEP AIRBORNE DUST
CONCENTRATION BELOW TLV. IF TLV IS EXCEEDED, A NIOSH APPROVED
NUISANCE MASK SHOULD BE WORN.

WEARING LONG SLEEVED CLOTHING, GLOVES AND HEAD COVERING WILL
LIMIT DIRECT CONTACT WITH FIBER. WASH CLOTHING SEPARATELY AND
RINSE WASHER AFTER USE.

SECTION IX - SPECIAL PRECAUTIONS

HEAT UP PRECAUTIONS: DURING THE INITIAL WARM UP TO ABOVE 400 F.,
THE MATERIAL WILL GIVE OFF AN ACRID ODOR AND SMOKE. THE AREA
MUST BE WELL VENTILATED IF PERSONNEL ARE PRESENT.