

MATERIAL SAFETY DATA SHEET

MACCO ADHESIVES

925 EUCLID AVENUE
CLEVELAND, OHIO 44115
EMERGENCY TELEPHONE 1-800-634-0015
216-344-8049

The i I.D.#: 229351
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SECTION I

CODE IDENTIFICATION 1610813- DATE PRINTED 07/23/96
PRODUCT IDENTIFICATION LR-808 / RR-808 LIQUID NAILS ROOF REPAIR

SECTION II-A - HAZARDOUS INGREDIENTS

CHEMICAL NAME: STODDARD SOLVENT WT. %: 20-30
COMMON NAME : MINERAL SPIRITS SARA? NO
CAS NUMBER : 8052-41-3 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA) : 100 PPM OSHA (TWA) : 100 PPM
ACGIH (STEL) : NOT EST. OSHA (STEL) : NOT EST.
OSHA (SKIN) : CEILING: SUPP REC STD. : NOT EST.

CHEMICAL NAME: ASPHALT WT. %: 40-50
COMMON NAME : ASPHALT SARA? NO
CAS NUMBER : 8052-42-4 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA) : 5 MG/M3 OSHA (TWA) : NOT EST.
ACGIH (STEL) : NOT EST. OSHA (STEL) : NOT EST.
OSHA (SKIN) : CEILING: SUPP REC STD. : NOT EST.

CHEMICAL NAME: CELLULOSE WT. %: 5-10
COMMON NAME : CELLULOSE SARA? NO
CAS NUMBER : 9004-34-6 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA) : 10 MG/M3 OSHA (TWA) : 5 MG/M3
ACGIH (STEL) : NOT EST. OSHA (STEL) : NOT EST.
OSHA (SKIN) : CEILING: SUPP REC STD. : NOT EST.

CHEMICAL NAME: CALCIUM CARBONATE WT. %: 20-30
COMMON NAME : SAME SARA? NO
CAS NUMBER : 1317-65-3 LD50: 6450.00 MG/KG ORL RAT CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA) : 5 MG/M3 OSHA (TWA) : 5 MG/M3
ACGIH (STEL) : NOT EST. OSHA (STEL) : NOT EST.
OSHA (SKIN) : CEILING: SUPP REC STD. : NOT EST.

CHEMICAL NAME: HYDRATED MAGNESIUM ALUMINUM SILICATE WT. %: 5-10
COMMON NAME : THICKENER SARA? NO
CAS NUMBER : 12174-11-7 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA) : NOT EST. OSHA (TWA) : NOT EST.
ACGIH (STEL) : NOT EST. OSHA (STEL) : NOT EST.
OSHA (SKIN) : CEILING: SUPP REC STD. : NOT EST.

SECTION III - PHYSICAL DATA

VAPOR PRESSURE NOT DETERMINED SPECIFIC GRAVITY 1.222
BOILING RANGE 308 - 374 F WEIGHT PER GALLON 10.18
%VOLATILE BY VOLUME 31.30
PHYSICAL STATE LIQUID COLOR BLACK
SOLUBILITY IN WATER NOT DETERMINED PH NOT DETERMINED



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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (SETA) 105 F LOWER EXPLOSIVE LIMIT .7
UPPER EXPLOSIVE LIMIT NOT DETERMINED

EXTINGUISHING MEDIA

DRY CHEMICAL OR FOAM
WATER FOG.
CARBON DIOXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE.
VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES.
CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.
MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.
IN CLOSED TANKS, WATER OR FOAM MAY CAUSE FROTHING OR ERUPTION.

SPECIAL FIRE FIGHTING PROCEDURES

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS.
FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF EXPOSURE

INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, CENTRAL NERVOUS SYSTEM DEPRESSION, LIVER DAMAGE, KIDNEY DAMAGE.

SKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING. SKIN CONTACT MAY RESULT IN DERMAL ABSORPTION OF COMPONENT(S) OF THIS PRODUCT WHICH MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION.

EYE CONTACT IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, TEARING OF EYES, REDNESS OF EYES.

INGESTION INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, MOUTH AND THROAT IRRITATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL PAIN, INTOXICATION, CONVULSIONS.

SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT IS MODERATELY TOXIC BY INHALATION. OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO LUNGS. NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY



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SECTION V - HEALTH HAZARD DATA

SUPPLEMENTAL HEALTH INFORMATION

DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS
MAY BE HARMFUL OR FATAL.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

EYE, SKIN, RESPIRATORY DISORDERS
ASTHMA-LIKE CONDITIONS

SECTION VI - FIRST AID PROCEDURES

INHALATION REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY.

SKIN CONTACT FLUSH FROM SKIN WITH WATER. THEN WASH THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE RE-USE.

EYE CONTACT FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.

INGESTION IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

SECTION VII - REACTIVITY DATA

STABILITY STABLE

INCOMPATIBILITY OXIDIZERS, ACIDS, BASES.

CONDITIONS TO AVOID
ELEVATED TEMPERATURES, SPARKS, OPEN FLAME.
IGNITION SOURCES

HAZARDOUS DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE, ACRID FUMES, TOXIC GASES.

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.
ELIMINATE ALL SOURCES OF IGNITION.
VENTILATE AREA.



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SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

PLACE COLLECTED MATERIAL IN PROPER CONTAINER.
LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND
CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE
ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE
MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.
SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE
OF PROPERLY.

WASTE DISPOSAL DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

SECTION IX - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE
STANDARDS. WHERE RESPIRATORY PROTECTION IS REQUIRED, USE
ONLY NIOSH/MSHA APPROVED RESPIRATORS IN ACCORDANCE WITH
OSHA STANDARD 29 CFR 1910.134.

VENTILATION PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT
BUILD-UP OF VAPORS.

PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES.
IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING.

SECTION X - SPECIAL PRECAUTIONS

HANDLING AND STORAGE

STORE BELOW 100F.
KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

OTHER PRECAUTIONS USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY.
KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND
EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER
HANDLING, ESPECIALLY BEFORE EATING OR SMOKING.
KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE.

DOT NOT DETERMINED

IMDG NOT DETERMINED

IATA NOT DETERMINED



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