

MATERIAL SAFETY DATA SHEET

MACCO ADHESIVES

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

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COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200

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SECTION I

CCODE IDENTIFICATION 0600301- DATE PRINTED 07/26/94
PRDUCT IDENTIFICATION LN-603, LIQUID NAILS FOR PROJECTS &
CONSTRUCTION

SECTION II-A - HAZARDOUS INGREDIENTS

CHEMICAL NAME: BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE WT. %: 1-5
COMMON NAME: STYRENE/BUTADIENE RESIN SARA? NO
CAS NUMBER: 9003-55-8 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.

CHEMICAL NAME: CARBONIC ACID CALCIUM SALT (1:1) WT. %: 5-10
COMMON NAME: CALCIUM CARBONATE SARA? NO
CAS NUMBER: 471-34-1 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.
SHA (SKIN): CEILING: SUPP REC STD.: NOT EST.

CHEMICAL NAME: KAOLIN WT. %: 30-40
COMMON NAME: CLAY SARA? NO
CAS NUMBER: 1332-58-7 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: SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC WT. %: 20-30
COMMON NAME: ALIPHATIC PETROLEUM DISTILLATES SARA? NO
CAS NUMBER: 64742-89-8 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.

CHEMICAL NAME: QUARTZ WT. %: .1-1.0
COMMON NAME: QUARTZ SARA? NO
CAS NUMBER: 14808-60-7 LD50: NOT EST. CERCLA? NO
CARCINOGENICITY LISTED BY: NTP? YES IARC MONOGRAPH? YES 2A OSHA? NO
ACGIH (TWA): 0.1 MG/M3 OSHA (TWA): 0.1 MG/M3
ACGIH (STEL): NOT EST. OSHA (STEL): NOT EST.
OSHA (SKIN): CEILING: SUPP REC STD.: NOT EST.

CHEMICAL NAME: BENZENE, METHYL- WT. %: 1-5
COMMON NAME: TOLUENE SARA? **
CAS NUMBER: 108-88-3 LD50: 5.00 GM/KG GRL RAT CERCLA? ***
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA): 50 PPM OSHA (TWA): 100 PPM
ACGIH (STEL): 150 PPM OSHA (STEL): 150 PPM
OSHA (SKIN): CEILING: SUPP REC STD.: NOT EST.

CHEMICAL NAME: CYCLOHEXANE WT. %: 1-5
COMMON NAME: CYCLOHEXANE SARA? **
CAS NUMBER: 110-82-7 LD50: NOT EST. CERCLA? ***
CARCINOGENICITY LISTED BY: NTP? NO IARC MONOGRAPH? NO OSHA? NO
ACGIH (TWA): 300 PPM OSHA (TWA): 300 PPM



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SECTION II-A - HAZARDOUS INGREDIENTS

ACGIH (STEL): NOT EST.
OSHA (SKIN): CEILING:

OSHA (STEL): NOT EST.
SUPP REC STD.: NOT EST.

※ THIS CHEMICAL IS SUBJECT TO SARA 313 REPORTING REQUIREMENTS (40 CFR PART 372).
※※ THIS CHEMICAL IS A HAZARDOUS SUBSTANCE AS DEFINED BY CERCLA (40 CFR PART 302.4).

SECTION II-B - OTHER INGREDIENTS

CHEMICAL NAME: DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC WT. %: 5-10
COMMON NAME: SAME
CAS NUMBER: 64742-52-5

CHEMICAL NAME: DISTILLATES (PETROLEUM), STEAM-CRACKED, POLYMERS WITH LIGHT STEAM-CRACKED PETROLEUM NAPHTHA WT. %: 10-20
COMMON NAME: HYDROCARBON RESIN
CAS NUMBER: 68410-16-2

CHEMICAL NAME: BENZENE, 1,3-DIETHENYL-, POLYMER WITH 1,3-BUTADIENE AND ETHENYLBENZENE WT. %: 5-10
COMMON NAME: STYRENE-BUTADIENE POLYMER
CAS NUMBER: 26471-45-4

SECTION III - PHYSICAL DATA

VAPOR PRESSURE	NOT DETERMINED	SPECIFIC GRAVITY	1.139
BOILING RANGE	179 - 231 F	WEIGHT PER GALLON	9.48
%VOLATILE BY VOLUME	52.30		
PHYSICAL STATE	PASTE	COLOR	TAN
SOLUBILITY IN WATER	N	PH	NOT DETERMINED

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (SETA)	23 F	LOWER EXPLOSIVE LIMIT	1.3
		UPPER EXPLOSIVE LIMIT	8.4

EXTINGUISHING MEDIA

DRY CHEMICAL OR FCAM
WATER FOG
CARBON DIOXIDE

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE.
VAPORS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES.
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK.
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



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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

TOXIC GASES.

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. SELF-CONTAINED BREATHING APPARATUS RECOMMENDED.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF EXPOSURE
INHALATION
SKIN
EYES
INGESTION

EFFECTS OF OVEREXPOSURE

INHALATION

IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION MAY LEAD TO FATIGUE, DROWSINESS, DIZZINESS AND/OR LIGHTEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, COUGHING, CENTRAL NERVOUS SYSTEM DEPRESSION, RESPIRATORY PROBLEMS, INTOXICATION, CONFUSION, ANESTHETIC EFFECT OR NARCOISIS, DIFFICULTY OF BREATHING, LOSS OF CONSCIOUSNESS, RESPIRATORY FAILURE, ASPHYXIATION, DEATH.

SKIN CONTACT

IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING.

EYE CONTACT

IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, BLURRED VISION, TEARING OF EYES, REDNESS OF EYES, SEVERE EYE IRRITATION, CORNEAL INJURY.

INGESTION

INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE TO ASPIRATION OF MATERIAL INTO LUNGS, HEADACHE, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, CENTRAL NERVOUS SYSTEM DEPRESSION, CYANOSIS.

SUPPLEMENTAL HEALTH INFORMATION

OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE TOXICITY TO LIVER, KIDNEY, LUNGS, CENTRAL NERVOUS SYSTEM, BLOOD, HEART. MAY BE ABSORBED THROUGH SKIN.

NOTICE - REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

CONTAINS CRYSTALLINE SILICA WHICH IS CONSIDERED A HAZARD BY INHALATION. IARC HAS CLASSIFIED CRYSTALLINE SILICA AS PROBABLY CARCINOGENIC FOR HUMANS (2A). THIS CLASSIFICATION IS BASED ON THE FINDINGS OF LABORATORY ANIMAL STUDIES THAT WERE CONSIDERED SUFFICIENT AND DATA FROM EPIDEMIOLOGICAL STUDIES THAT WERE CONSIDERED LIMITED FOR CARCINOGENICITY. CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE. NTP HAS CLASSIFIED CRYSTALLINE SILICA A REASONABLY ANTICIPATED HUMAN CARCINOGEN. DELIBERATE INHALATION OF TOLUENE HAS BEEN ASSOCIATED WITH NEONATAL EFFECTS IN HUMANS. DEVELOPMENTAL TOXICITY HAS ALSO BEEN DEMONSTRATED IN LABORATORY ANIMALS EXPOSED TO TOLUENE



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SECTION V - HEALTH HAZARD DATA

BY INHALATION. ADDITIONALLY, DELIBERATE INHALATION OF TOLUENE MAY RESULT IN CARDIAC SENSITIZATION WHICH CAN CAUSE IRREGULAR HEART RHYTHM AND SUDDEN DEATH.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
EYE, SKIN, RESPIRATORY DISORDERS

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, AMINES.

CONDITIONS TO AVOID ELEVATED TEMPERATURES, CONTACT WITH OXIDIZING AGENT, STORAGE NEAR ACIDS, SPARKS, OPEN FLAME. IGNITION SOURCES

HAZARDOUS DECOMPOSITION PRODUCTS CARBON MONOXIDE, CARBON DIOXIDE.

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.
VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. USE NON-SPARKING TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL. PLACE COLLECTED MATERIAL IN PROPER CONTAINER.
COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.



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SECTION VIII - SPILL OR LEAK PROCEDURES

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. AVOID DISCHARGE TO NATURAL WATERS.

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. USE EXPLOSION-PROOF EQUIPMENT. USE NON-SPARKING EQUIPMENT.

PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES. IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, FACE SHIELD, APRON, BOOTS.

SECTION X - SPECIAL PRECAUTIONS

HANDLING AND STORAGE

STORE BELOW 80F. 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. AVOID CONDITIONS WHICH RESULT IN FORMATION OF INHALABLE PARTICLES SUCH AS SPRAYING OR ABRADING (SANDING) PAINTED SURFACES. IF SUCH CONDITIONS CANNOT BE AVOIDED, USE APPROPRIATE RESPIRATORY PROTECTION AS DIRECTED UNDER SPECIAL PROTECTION INFORMATION. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

CGT

ADHESIVES, 3, UN1133, PGIII



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