

ACCUMETRIC LLC
350 RING ROAD
ELIZABETHTOWN, KY 42701

INFORMATION PHONE NUMBER: (270) 769-3385
EMERGENCY PHONE NUMBER (DAY): (270) 769-3385
EMERGENCY PHONE NUMBER (NIGHT): (270) 769-3385

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT

NAME: **BOSS® 383** CONSTRUCTION ADHESIVE
CLASS: ADHESIVE
CAS NO.: NONE-MIX
UN NO.: UN1133

E M I S HAZARD CODES

HEALTH: 2 MODERATE
FLAMMABILITY: 3 SERIOUS
REACTIVITY: 0 MINIMAL
PERSONAL PROTECTIVE
EQUIPMENT: G

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT MATERIAL DESCRIPTION	PERCENT BY WEIGHT	C.A.S. REGISTRY NO.	LEL	VAPOR PRESSURE mm Hg @ 20 C
ACETONE	< 10	67-64-1	3.	56.3
HEXANE	10 - 20	110-54-3	1.	180
TOLUENE	<10	108-88-3	1.	23.0

SECTION 111 - PHYSICAL DATA

BOILING RANGE: 130 - 150°F
VAPOR PRESSURE: >100 mm @ 20°C
SPEC GRAVITY: 1.44
EVAPORATION RATE: FASTER
(relative to n-butyl acetate)
ODOR THRESHOLD: NO DATA
FREEZING POINT: N/A °F
VAPOR DENSITY: HEAVIER THAN AIR
H2O SOLUBLE: NEGLIGIBLE (<0.1%)
% VOLATILE BY
VOLUME: 40 - 50%
pH: NO DATA
APPEARANCE
AND ODOR: TAN SEMI-PASTE WITH STRONG SOLVENT ODOR.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: <0.0°F
(METHOD USED) TAG

FLAMMABILITY CLASSIFICATION:
OSHA FLAMMABLE LIQUID CLASS IB

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

EXPLOSIVE LIMITS:
LEL UEL (% V IN AIR)
1.1 13.0

DOT: FLAMMABLE LIQUID

SPECIAL FIRE FIGHTING PROCEDURES:
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. USE WATER TO COOL EXPOSED CONTAINERS. WATER STREAM DIRECTED INTO FIRE MAY CAUSE FROTHING WITH SUBSEQUENT SPREAD OF FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
IRRITATING AND/OR TOXIC GASES OR FUMES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION. CLOSED CONTAINERS MAY RUPTURE OR EXPLODE (DUE TO PRESSURE BUILD-UP) WHEN EXPOSED TO EXTREME HEAT. VAPOR IS HEAVIER THAN AIR, AND MAY TRAVEL ALONG THE GROUND TO BE REIGNITED AT LOCATIONS DISTANT FROM THE SOURCE; FLASHBACK OF FLAME MAY OCCUR.

SECTION V - TOXICOLOGICAL INFORMATION

INGREDIENT MATERIAL DESCRIPTION	PEL ppm	TLV (twa) mg/mg3 - ppm	LD50 (mg/kg) (rat) - (rbd) oral - dermal	LC50 (ppm) (rat) INHAL
ACETONE (STEL=1000. ppm)	750.	1780. - 750.	N/A - 20.0g/kg	N/A
HEXANE	50.	176. - 50.0	N/A - N/A	N/A
TOLUENE (STEL=150. ppm)	100.	375. - 100.0	7000.0 - 4000.0	8000.0

SECTION VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: THRESHOLD LIMIT VALUES: SEE SECTION V

EFFECTS OF ACUTE OVEREXPOSURE:

EYES: MODERATE IRRITANT. MAY CAUSE REVERSIBLE CORNEAL INJURY.

SKIN: MODERATE IRRITANT. MAY CAUSE DERMATITIS AND ALLERGIC RESPONSES.

INHALATION: RESPIRATORY IRRITANT, INTOXICANT, AND CENTRAL NERVOUS SYSTEM DEPRESSANT. OVEREXPOSURE SHOWN BY HEADACHE, DIZZINESS, AND CONFUSION TO COMA.

INGESTION: MAY CAUSE IRRITATION OF MOUTH, THROAT, AND STOMACH. SYMPTOMS INCLUDE NAUSEA, ABDOMINAL PAIN AND POSSIBLE PNEUMONITIS.

***PREEXISTING PULMONARY AND DERMATOLOGICAL DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO HAZARDOUS COMPONENTS.

CHRONIC OVEREXPOSURE INFORMATION:

*NONE OF THE COMPONENTS OF THIS PRODUCT ARE LISTED AS KNOWN OR SUSPECTED CARCINOGENS PER NTP, IARC, OR OSHA.

**PERIPHERAL POLYNEUROPATHY HAS BEEN SHOWN TO OCCUR IN INDIVIDUALS EXPOSED REPEATEDLY TO N-HEXANE IN THE 1000 - 1500 ppm RANGE. EVIDENCE

IN LABORATORY ANIMALS AND HUMANS INDICATES THAT THE PRESENCE OF METHYL ETHYL KETONE OR METHYL ISOBUTYL KETONE THE NEUROPATHY ASSOCIATED WITH N-HEXANE IS PRODUCED IN A SHORTER TIME AT A LOWER EXPOSURE LEVEL.

***ANIMAL STUDIES HAVE SHOWN THAT INHALATION OF HIGH LEVELS OF TOLUENE PRODUCED CARDIAC SENSITIZATION SUCH SENSITIZATION MAY CAUSE FATAL CHANGES IN HEART RHYTHMS. THERE IS NO EVIDENCE THAT

EXPOSURE TO VAPOR LEVELS AT OR BELOW THE TVL HAVE PRODUCED CARDIAC EFFECTS IN HUMANS.

****STUDIES SUGGEST THAT SOLVENT CHRONIC OVEREXPOSURE AND/OR SYSTEMATIC TOXICITY EFFECTS ARE TARGETED AT THE KIDNEYS AND CENTRAL NERVOUS SYSTEM.

EMERGENCY FIRST AID PROCEDURES:

EYES: FLUSH WITH PLENTY OF WATER AT LEAST 15 MINUTES. OBTAIN IMMEDIATE MEDICAL ATTENTION.

SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA(S) THOROUGHLY WITH SOAP AND WATER. CONSULT A PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. ADMINISTER ARTIFICIAL RESPIRATION IF NOT BREATHING. OBTAIN MEDICAL ATTENTION.

INGESTION: **DO NOT INDUCE VOMITING.**
GIVE WATER OR MILK IF VICTIM IS CONSCIOUS AND NOT DROWSY. SHOULD VOMITING OCCUR, BE SURE TO KEEP VICTIM'S HEAD BELOW HIPS TO AVOID ASPIRATION OF VOMITUS INTO THE LUNGS. OBTAIN IMMEDIATE MEDICAL ATTENTION.

SECTION VII B REACTIVITY DATA SECTION VII B REACTIVITY DATA SECTION VII B REACTIVITY DATA

STABILITY: STABLE

STABILITY CONDITIONS TO AVOID: SOURCES OF IGNITION

INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH): STRONG BASES OR OXIDANTS. STRONG LEWIS OR MINERAL ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: ACRID SMOKE. OXIDES OF CARBON.

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS FOR MATERIAL SPILLAGE:

VENTILATE AREA. WEAR APPROPRIATE PROTECTIVE EQUIPMENT DURING CLEANUP. ELIMINATE SOURCES OF IGNITION. CONTAIN SPILL.

ABSORB WITH INERT MATERIAL. SWEEP OR SHOVEL INTO CONTAINERS WITH LIDS. COVER LOOSELY AND REMOVE TO APPROPRIATE WASTE AREA. WASH SPILL AREA WITH SOAP AND WATER. PREVENT WASHING FROM ENTERING WATERWAYS.

WASTE DISPOSAL METHOD:

REVIEW ALL LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION FOR APPROPRIATE DISPOSAL PROCEDURES.

SECTION IX - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

IF THE TLV IS EXCEEDED, IF USE IS PERFORMED IN A POORLY VENTILATED SPACE OR AREA WITH LIMITED VENTILATION, USE NIOSH-APPROVED ORGANIC VAPOR CARTRIDGE RESPIRATOR IN ACCORDANCE WITH 29 CFR 1910.134. IF VAPOR LEVELS ARE 10 X TLV OR GREATER, OR IF USE IS PERFORMED IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY REGULATIONS.

VENTILATION: LOCAL EXHAUST AS NEEDED TO CONTROL VAPOR/DUST LEVELS TO BELOW RECOMMENDED LIMITS.

PROTECTIVE GLOVES: NEOPRENE, NITRILE

EYE PROTECTION: CHEMICAL SAFETY GLASSES

OTHER PROTECTIVE EQUIPMENT: ACCESSIBLE EYE WASH AND SAFETY SHOWER. CLEAN PROTECTIVE CLOTHING.

SECTION X - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

DO NOT TAKE INTERNALLY.

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING.

AVOID BREATHING VAPOR.

WASH THOROUGHLY AFTER HANDLING.

TIGHTLY RESEAL ALL PARTIALLY USED CONTAINERS.

USE ONLY WITH ADEQUATE VENTILATION.

STORE AWAY FROM SOURCES OF IGNITION.

EXTINGUISH ALL PILOT LIGHTS BEFORE USE.

KEEP OUT OF REACH OF CHILDREN.

EMPTY CONTAINERS MAY CONTAIN DANGEROUS VAPORS OR RESIDUES. STORE EMPTY CONTAINERS AWAY FROM HEAT AND FLAMES.

OTHER INFORMATION:

*N/A = INFORMATION OR DATA NOT AVAILABLE***

**NTP = NATIONAL TOXICOLOGY PROGRAM

**IARC = INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

**NIOSH = NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH

**ACGIH = AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

**OSHA = OCCUPATION SAFETY AND HEALTH ADMINISTRATION

***PEL = PERMISSIBLE EXPOSURE LIMIT (8-HR. TWA) (OSHA)

***TLV = THRESHOLD LIMIT VALUE (8-HR. TWA) (ACGIH)

***STEL = SHORT-TERM EXPOSURE LIMIT (OSHA)

SECTION XI - REGULATORY DATA

CALIFORNIA VOC: 2.8 lbs./gal

CALIFORNIA PROP 65: CONTAINS TOLUENE WHICH HAS BEEN LISTED BY THE STATE OF CALIFORNIA AS A SUBSTANCE KNOWN TO CAUSE REPRODUCTIVE HARM.

	TRANSPORTATION	
	DOT	UN
HAZARD CLASS	FLAMMABLE LIQUID	FLAMMABLE LIQUID
UN/NA NUMBER	UN1133	UN1133
SHIPPING NAME	ADHESIVE (HEXANE)	ADHESIVE (HEXANE, TOLUENE)
PLACARD AT	1000 LBS	N/A
CLASS NUMBER	3	AIR: 3 - MARINE: 3.1
SUBSID. RISK	N/A	AIR: N/A - MARINE N/A
PACKING GROUP	N/A	AIR: II - MARINE II

REPORTING:

CERCLA REPORTABLE QUALITY:

AS PRODUCT: 8 lbs. AS WASTE: 100 lbs.

SARA SECTION 304 EMERGENCY RESPONSE REPORTABLE QUANTITY: NONE

SARA SECTION 311/312 INVENTORY REPORTING (Y/N): Y

SARA SECTION 311/312 HAZARD CLASS(ES): ACUTE, DELAYED HEALTH, FIRE

SARA SECTION 313 RELEASE REPORTING CHEMICALS: TOLUENE, 634%;

ACETONE, 4.8%

COMPONENTS ON TSCA INVENTORY (Y/N): Y

DISPOSAL:

EPA RCRA WASTE CLASS: IGNITABLE

EPA RCRA WASTE NUMBER: D001

CALIFORNIA LIST LAND BAN (Y/N): Y

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