

MATERIAL SAFETY DATA SHEET

ACCUMETRIC LLC
350 RING ROAD
ELIZABETHTOWN, KY 42701
270-769-3385

BOSS® 663 BRAKE CLEANER

SECTION 1. MANUFACTURER IDENTIFICATION

MANUFACTURERS NAME: ACCUMETRIC LLC
350 RING ROAD
ELIZABETHTOWN, KY 42701

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HMIS CODES

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TELEPHONE NUMBER: 270-769-3385

SECTION 2. HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	mm Hg @ TEMP	PERCENT
HEPTANE OSHA PEL: 400 PPM, ACGIH TLV: 400 PPM	142-82-5	40 72	20
* HEXANE (MIXED ISOMERS), INCLUDING n-HEXANE FOR HEXANE ISOMERS: OSHA PEL: 500 PPM, ACGIH TLV: 500 PPM, STEL: 1000 PPM, FOR n-HEXANE: OSHA PEL: 50 PPM, ACGIH TLV: 50 PPM	110-54-3	137 68	20
BUTANE OSHA PEL: 800 PPM, ACGIH TLV: 800 PPM	106-97-8	1640 68	30
PROPANE OSHA PEL: 1000 PPM, ACGIH TLV: ASPHYXIAN	74-98-6	6350 68	10

* INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.

SECTION 3. PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 250 DEG F – 310 DEG F
SPECIFIC GRAVITY (H20=1): 1.53
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
SOLUBILITY IN WATER: NIL
APPEARANCE AND ODOR: AEROSOL PRODUCT; COLORLESS LIQUID; MILDLY SWEET

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 105 DEG F
METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME – LOWER: .7 UPPER: 6

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES:
WATER MAY BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILD-UP AND EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES PREFERRED. WEAR GOGGLES AND SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
CLOSED CONTAINERS MAY EXPLODE FROM INTERNAL PRESSURE BUILD-UP WHEN EXPOSED TO EXTREME HEAT AND DISCHARGE CONTENTS. VAPOR ACCUMULATION CAN FLASH OR EXPLODE IF IGNITED. OVEREXPOSURE TO DECOMPOSITION PRODUCT MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE READILY APPARENT. OBTAIN MEDICAL ATTENTION.

SECTION 5. REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: APPLICATION TO HOT SURFACES. STORAGE ABOVE 120 DEG F.
EXPOSURE TO OPEN FLAME.
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: MAY PRODUCE FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON MONOXIDE.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 6. HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
RESPIRATORY IRRITATION, HEADACHE, NAUSEA, FATIGUE, DROWSINESS, IMPAIRED CO-ORDINATION, CARDIAC SENSITIZATION

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
SKIN: CONTACT MAY DRY THE SKIN; PROLONGED CONTACT MAY CAUSE MODERATE IRRITATION.
EYE: LIQUID OR VAPOR CAN IRRITATE; PROLONGED CONTACT MAY LEAD TO CORNEAL DAMAGE.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:
NOT EASILY ABSORBED. SOLVENT ACTION CAN DRY AND DEFAT THE SKIN CAUSING THE SKIN TO CRACK, LEADING TO DERMATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

NOT A LIKELY ROUTE OF EXPOSURE. IF SWALLOWED, DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ADVICE AND/OR ATTENTION.

HEALTH HAZARDS (ACUTE AND CHRONIC):

ACUTE: EYE IRRITANT. SKIN IRRITANT. NARCOTIC IN HIGH CONCENTRATIONS. CHRONIC: LIVER AND KIDNEY DISEASE. SKIN IRRITATION AND DERMATITIS. CHRONIC OVEREXPOSURES HAVE CAUSED LIVER AND KIDNEY TOXIC EFFECTS IN EXPERIMENTAL ANIMALS. CAN CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, IRREGULAR HEARTBEAT AND POSSIBLE DEATH IF TOO MUCH IS BREATHED. DELIBERATE CONCENTRATION AND INHALATION OF CONTENTS MAY BE HARMFUL OR FATAL. CAN ELEVATE CARBOXYHEMOGLOBIN LEVELS FOLLOWING EXPOSURE

CARCINOGENICITY: NTP CARCINOGEN: YES IARC MONOGRAPHS: YES

OSHA REGULATED: YES

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

ACUTE AND CHRONIC LIVER AND KIDNEY DISEASE, ANEMIA, CORONARY DISEASE OR RHYTHM DISORDERS OF THE HEART.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF NEEDED. APPLY ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION. DO NOT ADMINISTER ADRENALIN TO AN AFFECTED PERSON.

INGESTION: DO NOT INDUCE VOMITING; CALL A DOCTOR IF CONDITION REMAINS, GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SKIN: WIPE OFF WITH TOWEL. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

EYES: WASH IMMEDIATELY WITH LARGE VOLUMES OF FRESH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SECTION 7. PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

AVOID BREATHING VAPORS. VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. CLEAN UP AREA WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BEFORE ATTEMPTING CLEANUP, REFER TO OTHER SECTIONS OF THIS MSDS FOR HAZARD CAUTION INFORMATION.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
STORE AND USE IN COOL, DRY, WELL-VENTILATED AREAS. AVOID CONTACT WITH HOT METAL SURFACES. KEEP AWAY FROM EXCESSIVE HEAT OR OPEN FLAME. CONTENTS UNDER PRESSURE. DO NOT PUNCTURE OR INCINERATE CONTAINER OR STORE ABOVE 120 DEG F.

OTHER PRECAUTIONS:

THE STORAGE OF NON-FLAMMABLE PRODUCTS WITH NON-FLAMMABLE OR FLAMMABLE PRESSURIZING AGENT, IN CARTONS, IS THE SAME FOR ORDINARY CANNED GOODS IN CARTONS.

Page 4

SECTION 8. CONTROL MEASURES

RESPIRATORY PROTECTION

IN RESTRICTED AREAS, USE APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICLES AND VAPOR. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATOR OR HOOD. SELF CONTAINED BREATHING APPARATUS IS REQUIRED FOR VAPOR CONCENTRATIONS ABOVE PEL/TLV LIMITS.

VENTILATION:

SUFFICIENT TO PREVENT INHALATION OF SOLVENT VAPORS. GENERAL DILUTION AND/OR LOCAL EXHAUST VENTILATION IN VOLUME OR PATTERN TO KEEP PEL/TLV OF MOST HAZARDOUS INGREDIENT BELOW ACCEPTABLE LIMIT AND LEL BELOW STATED LIMIT.

PROTECTIVE GLOVES:

SOLVENT RESISTANT REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION:

SAFETY GLASSES WITH SPLASH GUARDS OR FULL FACE SHIELD.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

SOLVENT RESISTANT APRONS.

WORK/HYGIENIC PRACTICES:

EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

SECTION 9. DISCLAIMER

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DATE:

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