

ACUITY - dba AMREP
125 BUTTERMILL AVENUE,
CONCORD, ONTARIO
L4K 3X5 CANADA
1-800-267-1578

PRODUCT: B63801/B63901/B64001 LIVESTOCK MARKERS-(BLUE, GREEN, RED) 400G

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER MANUFACTURED FOR:
Acuity... dba Amrep
125 Buttermill Avenue
Concord, Ontario
L4K 3X5 Canada

PRODUCT NAME..... B63801/B63901/B64001 LIVESTOCK MARKERS-(BLUE, GREEN, RED) 400G
CHEMICAL FAMILY..... RESIN SOLUTION.
MOLECULAR WEIGHT..... NOT APPLICABLE.
CHEMICAL FORMULA..... MIXTURE.
TRADE NAMES & SYNONYMS
RECOMMENDED PRODUCT USES..... MARKER.
PRODUCT CODE(S) B63501, B63901, B64001.
FORMULA/LAB BOOK #..... 99-2425B/99-2424E/99-2423B.
CHEM-TEL EMERGENCY # NORTH AMERICA 1-800-255-3924 (24 HR). INTERNATIONAL 1-813-248-0585 (24 HR) (MIS 0000403).

SECTION 02: HAZARDS IDENTIFICATION



HAZARD CLASSIFICATION..... NOT ASSESSED.
SIGNAL WORD..... NOT ASSESSED.
HAZARD STATEMENTS NOT ASSESSED.
PRECAUTIONARY STATEMENTS..... NOT ASSESSED.
OTHER HAZARDS..... NOT ASSESSED.

SECTION 03: COMPOSITION/INFORMATION INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
ACETIC ACID	64-19-7	0.5-1.5
ETHANOL (Ethyl Alcohol)	64-17-5	3-7
ISOBUTANE	75-28-5	5-10
ISOPROPANOL	67-63-0	60-100
PROPANE	74-98-6	10-30
n-PROPANOL	71-23-8	1-5

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURE IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... EXTREMELY FLAMMABLE.
IF YES, UNDER WHICH CONDITIONS?..... EXCESSIVE HEAT, SPARKS AND OPEN FLAME.

PRODUCT: B63801/B63901/B64001 LIVESTOCK MARKERS-(BLUE, GREEN, RED) 400G**SECTION 05: FIRE FIGHTING MEASURES**

SPECIAL PROCEDURES..... WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.

EXPLOSION DATA
 SENSITIVITY TO STATIC DISCHARGE. NOT APPLICABLE.
 SENSITIVITY TO IMPACT..... NOT APPLICABLE.
 EXTINGUISHING MEDIA..... WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.
 HAZARDOUS COMBUSTION PRODUCTS..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
 AEROSOL FLAME PROJECTION CLASSIFIED AS:..... >15cm BUT <100cm.
 FLASHBACK..... NONE.

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.

SECTION 07: HANDLING AND STORAGE

STORAGE NEEDS..... KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.
 ENGINEERING CONTROLS..... VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS).
 HANDLING PROCEDURES AND EQUIPMENT STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C.
 SYNERGISTIC MATERIALS..... NONE KNOWN.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
ACETIC ACID	10 PPM					
ETHANOL (Ethyl Alcohol)	1000 ppm					
ISOBUTANE	NOT AVAILABLE					
ISOPROPANOL	400 ppm					
PROPANE	1000 ppm					
n-PROPANOL	200 ppm					
GLOVES/ TYPE.....	WEAR CHEMICAL RESISTANT GLOVES.					
RESPIRATORY/TYPE.....	IF USED INDOORS ON A CONTINUOUS BASIS, USE OF A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHATC 23C OR EQUIVALENT) IS RECOMMENDED.					
EYE/TYPE.....	SAFETY GLASSES.					
FOOTWEAR/TYPE.....	NOT NORMALLY REQUIRED.					
OTHER/TYPE.....	NOT REQUIRED.					
EXPOSURE LIMIT OF MATERIAL.....	SEE SECTION 2.					

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... AEROSOL.
 APPEARANCE..... VARIOUS COLOURS.
 ODOR..... FRAGRANT.
 ODOR THRESHOLD..... NOT AVAILABLE.
 pH..... NOT APPLICABLE.
 FREEZING POINT: (°C)..... NOT AVAILABLE.
 BOILING POINT (°C)(CONC)..... >78.5.
 FLASH POINT(°C), TAG CLOSED-CUP LOWEST KNOWN VALUE IS ETHANOL @ 13C.
 (CONCENTRATE)
 EVAPORATION RATE..... GREATER THAN 1.
 n-BUTYL ACETATE = 1
 UPPER FLAMMABLE LIMIT..... 19.
 (% BY VOLUME)
 LOWER FLAMMABLE LIMIT..... 1.8.
 (% BY VOLUME)

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VAPOUR PRESSURE(PSIG)-AEROSOL..... 50 - 60.
 @ 20 C
 VAPOUR DENSITY (AIR=1)..... GREATER THAN 1.
 SPECIFIC GRAVITY (AEROSOL)..... 0.71-0.75.
 SPECIFIC GRAVITY (LIQUID)..... 0.75-0.85.
 SOLUBILITY IN WATER g/L (20°C)..... NEGLIGIBLE.
 COEFFICIENT OF WATER/OIL DIST..... NOT AVAILABLE.
 AUTO IGNITION TEMPERATURE (°C)..... LOWEST KNOWN VALUE IS 422 (ETHANOL).
 AEROSOL PERCENT VOLATILE..... 92-93.
 (BY WEIGHT).
 AEROSOL PERCENT VOC (w/w)..... 92-93.

SECTION 10: STABILITY AND REACTIVITY

HAZARDOUS PRODUCTS OF DECOMPOSITION..... HYDROCARBON FUMES AND SMOKE. CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
 CHEMICAL STABILITY:
 YES..... UNDER NORMAL CONDITIONS.
 NO, WHICH CONDITIONS?..... NOT APPLICABLE.
 COMPATIBILITY WITH OTHER SUBSTANCES:
 NO, WHICH ONES?..... STRONG OXIDIZING AGENTS.
 REACTIVITY CONDITIONS?..... NOT APPLICABLE.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
ACETIC ACID	NOT AVAILABLE	3310 mg/kg ORAL-RAT
ETHANOL (Ethyl Alcohol)	31,623 ppm (4 hr) INHAL - RAT	7060 mg/kg ORAL - RAT
ISOBUTANE	142,500 ppm (4h) RAT - INHAL	NOT AVAILABLE
ISOPROPANOL	12000 ppm (8hr) INHAL - RAT	>4720 mg/kg ORAL - RAT
PROPANE	NOT AVAILABLE	>5000 mg/kg DERMAL-RABBITS
n-PROPANOL	NOT AVAILABLE	1870 mg/kg ORAL-RAT
ROUTE OF EXPOSURE: INHALATION.....	ISOPROPANOL VAPORS COULD PRODUCE IRRITATION OF NOSE AND THROAT. INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIANT.	
INGESTION.....	MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.	
EYE CONTACT.....	MAY CAUSE IRRITATION.	
SKIN CONTACT.....	MAY CAUSE IRRITATION.	
SKIN ABSORPTION.....	ETHANOL CAN BE ABSORBED IN TOXIC AMOUNTS, ESPECIALLY FROM PROLONGED OR REPEATED EXPOSURE.	
EFFECTS OF ACUTE EXPOSURE.....	ACETIC ACID-HAZARDOUS IN CASE OF INGESTION, OF INHALATION, OF SKIN CONTACT (CORROSIVE), OF EYE CONTACT (CORROSIVE). LIQUID OR SPRAY MIST MAY PRODUCE TISSUE DAMAGE PARTICULARLY ON MUCOUS MEMBRANES OF EYES, MOUTH AND RESPIRATORY TRACT. SKIN CONTACT MAY PRODUCE BURNS. INHALATION OF THE SPRAY MIST MAY PRODUCE SEVERE IRRITATION OF RESPIRATORY TRACT, CHARACTERIZED BY COUGHING, CHOKING, OR SHORTNESS OF BREATH. HARMFUL IF SWALLOWED. ETHANOL-LONG TERM REPEATED ORAL EXPOSURE MAY RESULT IN THE DEVELOPMENT OF PROGRESSIVE LIVER INJURY WITH FIBROSIS.	
EFFECTS OF CHRONIC EXPOSURE.....	CONTAINS TRACE AMOUNT OF: ACETIC ACID - TOXIC TO UPPER RESPIRATORY TRACT, SKIN, EYES. REPEAT OR PROLONGED EXPOSURE TO THE SUBSTANCE CAN PRODUCE TARGET ORGANS DAMAGE. REPEATED OR PROLONGED CONTACT WITH SPRAY MIST MAY PRODUCE CHRONIC EYE IRRITATION AND SEVERE SKIN IRRITATION. REPEATED OR PROLONGED EXPOSURE TO SPRAY MIST MAY PRODUCE RESPIRATORY TRACT IRRITATION LEADING TO FREQUENT ATTACKS OF BRONCHIAL INFECTION. SOLVENTS MAY CAUSE DEFATTING DERMATITIS	
IRRITANCY OF MATERIAL.....	SKIN/EYE IRRITANT.	
CARCINOGENICITY OF MATERIAL.....	THE INGREDIENTS OF THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY NTP, (NATIONAL TOXICOLOGY PROGRAM), NOT REGULATED AS CARCINOGENS	

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CARCINOGENICITY OF MATERIAL..... BY OSHA, (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND HAVE NOT BEEN EVALUATED BY IARC, (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER), NOR BY ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS).

MUTAGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.

TERATOGENICITY..... NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.

REPRODUCTIVE EFFECTS..... NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.

SENSITIZING CAPABILITY OF MATERIAL. UNKNOWN.

SECTION 12: ECOLOGICAL CONSIDERATIONS

ENVIRONMENTAL..... NOT AVAILABLE.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

SECTION 14: TRANSPORTATION INFORMATION

T.D.G. CLASSIFICATION..... CONSUMER COMMODITY (AEROSOLS, UN1950, CLASS 2.1).

D.O.T. CLASSIFICATION..... CONSUMER COMMODITY, ORM-D.

SECTION 15: REGULATORY INFORMATION

CANADIAN REGULATIONS:

WHMIS1988 CLASSIFICATION..... A,B5,D2B.

CNFC SECTION 3.3.5..... LEVEL 2.

CEPA (Canadian Environmental Protection Act) ... ALL SUBSTANCES IN THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL) OR ARE NOT REQUIRED TO BE LISTED.

U.S. REGULATIONS:

HMIS RATING HEALTH..... 2 MODERATE HAZARD.

HMIS RATING FLAMMABILITY..... 4 SEVERE HAZARD.

HMIS RATING REACTIVITY..... 0 MINIMAL HAZARD.

HMIS RATING PERSONAL PROTECTION.. B.

NFPA CODE 30B..... LEVEL 2.

SARA 313 INFORMATION:..... THIS PRODUCT CONTAINS NO INGREDIENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372.

CALIFORNIA PROPOSITION 65:..... THE FOLLOWING STATEMENT IS MADE IN ORDER TO COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986: . CAS #: CHEMICAL NAME:
 . WARNING: THIS PRODUCT DOES NOT INTENTIONALLY CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.
 . CAS #: CHEMICAL NAME:

TSCA (Toxic Substances Control Act)..... . N/A.

AEROSOL PERCENT VOC (w/w)..... ALL COMPONENT OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. ANY IMPURITIES PRESENT IN THIS PRODUCT ARE EXEMPT FROM LISTING.
 92-93.

SECTION 16: OTHER INFORMATION

NOTICE FROM ACUITY HOLDINGS INC... THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET IS PROVIDED BY ACUITY HOLDINGS INC.. FREE OF CHARGE. WHILE BELIEVED TO BE RELIABLE, IT IS INTENDED FOR USE BY SKILLED PERSONS AT THEIR OWN RISK. ACUITY HOLDINGS INC. ASSUMES NO RESPONSIBILITY FOR EVENTS RESULTING OR DAMAGES INCURRED FROM ITS USE. THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS.

PREPARED BY..... Regulatory Affairs

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SECTION 16: OTHER INFORMATION

PREPARATION DATE DEC 22/2016