

MATERIAL SAFETY DATA SHEET

#471

MSDS# A011

SECTION 1 - IDENTIFICATION

IDENTITY: VALVE ACTION PAINT MARKER ALL COLOR

MANUFACTURER

LA-CO INDUSTRIES, INC./MARKAL COMPANY
250 N. WASHTENAW AVE.
CHICAGO, IL, 60612

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DATE PREPARED: 12/18/90
SUPERSEDES ISSUE DATE: 09/01/90

LABELING

HMIS: 130 NFPA: 231 WHMIS(CANADA): D-2B, B-2
EPA HAZARDS: ACUTE, CHRONIC, FLAMMABLE D.O.T.: CONSUMER COMMODITY ORM-D
BILL OF LADING: MARKERS-FELT TIP INK DRAWING
U.P.S.: CONSUMER COMMODITY ORM-D

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	C.A.S.#	OSHA PEL	ACGIH TLV	SUPERFUND RQ	%
XYLENE*	1330-20-7	100ppm	100ppm	1000 lbs.	15
PETROLEUM DISTILLATES	64742-89-8	500ppm	300ppm	N.A.	N./
MINERAL SPIRITS	64742-88-7	500ppm	N.D.	N.A.	N./
TOLUENE*	108-88-3	100ppm	100ppm	1000 lbs.	02

THE INDICATED TOXIC CHEMICALS ARE 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.

10 grams NET INK WEIGHT PER MARKER

SECTION 3 - PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 201-310 F SPECIFIC GRAVITY(H₂O=1): 1.0-1.2
VAPOR PRESSURE(mmHg): 100 MELTING POINT: N.A.
VAPOR DENSITY(AIR=1): 1 EVAP. RATE(butyl acetate=1): APPROX. 1
SOLUBILITY IN WATER: NIL
APPEARANCE: PAINT ODOR: PAINT LIKE ODOR

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used): 15 F TCC FLAMMABLE LIMITS - LEL: 0.9% UEL: 7.1%
EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, DRY CHEMICAL, WATER FOG, CARBON DIOXIDE.
SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE, 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: ISOLATE FROM HEAT, SPARKS, OPEN FLAME. OVEREXPOSURE TO DECOMPOSITION PRODUCTS 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.
INCOMPATIBILITY (MATERIALS TO AVOID): N.D.
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND OTHER TOXIC FUMES.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: N.A.

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***** SECTION 6 - HEALTH HAZARD DATA *****

ROUTES OF ENTRY: INHALATION? YES SKIN? NO INGESTION? YES
HEALTH HAZARDS:
EYES: LIQUID OR VAPOR CAN IRRITATE.
SKIN: MAY DRY SKIN OR CAUSE IRRITATION.
INHALATION: IRRITATION, HEADACHE, NAUSEA, FATIGUE, DROWSINESS, IMPAIRED COORDINATION.
INGESTION: IF SWALLOWED DO NOT INDUCE VOMITING, POSSIBLE LIVER AND KIDNEY DAMAGE.
CARCINOGENICITY: NTP? NO IARC? NO OSHA? NO
SIGNS AND SYMPTOMS OF EXPOSURE: SEE 'HEALTH HAZARDS' ABOVE.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: ACUTE CHRONIC LIVER AND KIDNEY DISEASE, ANEMIA.
EMERGENCY AND FIRST AID PROCEDURES:
SKIN: WIPE OFF, WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.
EYES: FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.
INHALATION: REMOVE TO FRESH AIR, ADMINISTER OXYGEN IF NEEDED. APPLY ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION.
INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

***** SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE *****

RELEASE AND SPILL PROCEDURES: CLEAN UP WITH ABSORBENT MATERIAL AND PLACE IN COVERED WASTE CONTAINER.
WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
HANDLING AND STORAGE PRECAUTIONS: STORE IN COOL, DRY, VENTILATED AREAS, AWAY FROM EXCESSIVE HEAT.
OTHER PRECAUTIONS: N.A.

***** SECTION 8 - CONTROL MEASURES *****

RESPIRATORY PROTECTION: ORGANIC VAPOR FILTER OR FRESH AIR SUPPLY IN ENCLOSED AREAS.
VENTILATION / LOCAL EXHAUST: RECOMMENDED SPECIAL: N.A.
 \ MECHANICAL(GENERAL): YES OTHER: N.A.
PROTECTIVE GLOVES: SOLVENT RESISTANT GLOVES FOR PROLONGED CONTACT.
EYE PROTECTION: SAFETY GLASSES OR GOGGLES.
OTHER PROTECTIVE EQUIPMENT: EYE WASH EQUIPMENT RECOMMENDED.
WORK/HYGIENIC PRACTICES: WASH THOROUGHLY AFTER USE AND BEFORE EATING OR SMOKING

N.A. - NOT APPLICABLE

N.D. - NOT DETERMINED

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MSDS# A011 PRODUCT: VALVE ACTION PAINT MARKER ALL COLORS