

MATERIAL SAFETY DATA SHEET



FOR COATING, RESINS, AND RELATED MATERIALS

Date of Preparation- -2/11/91
 Manufacturer: LILLY-RAM INDUSTRIES, INC.
 Address : 210 E. ALONDRA BOULEVARD
 GARDENA, CA 90248

Telephone#: (213) 321 0710 Emergency#: 1-(800) 424-9300

SECTION I: PRODUCT IDENTIFICATION

Manufacturer's Code: 107 X19
 Product Class: MOLD RELEASE-ACROSOL
 Trade Name: OS-3 AEROSOL 87 X19
 UN Number: NONE
 HMIS Information: Health- 2 Flammability- 1
 Reactivity- 1 Personal Protective Equipment- A
 HAZARD INDEX: 4= Severe 3= Serious 2= Moderate 1= Slight 0= Least

SECTION II: HAZARDOUS INGREDIENTS

----- INGREDIENT -----		% BY		ACGIH	OSHA	VAPOR
MATERIAL DESCRIPTION		CASH	WT.	TLV(TWA)	PEL	PRESSURE
				PPM	PPM OTHER	LIMITS
CHLOROFLUOROETHANE	/76-13-1	/	2.17	/1000.00/	76.00/	275.00
METHYLENE CHLORIDE	/75-09-2	/	77.29	/ 50.00/NOT EST/		340.00
PROPANE	/74-98-6	/	10 - 20	/1000.00/1800.00/		
% LEAD				.00		
% CHROMATE				.00		

 This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.

This product contains a chemical known to the State of California to cause cancer.

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SECTION III: PHYSICAL DATA

Boiling Range: High- 117.6 F Low- 103.0 F

Vapor Pressure: 340.00 MMHG @68 F

Vapor Density: Heavier Than Air

Evaporation Rate: Slower than Ether

Weight per Gallon: 13.8

% Volatile by Volume: 99.31

% Volatile by Weight: 99.46

VOC: 13.757

Physical State: LIQUID

Appearance: WHITE

Odor: CHLORINATED HYDROCARBON

Odor Threshold: N/A

pH: N/A

Freezing Point: N/A

Water Solubility: NONE

Coefficient of Water/Oil Distribution: N/A

Nonphotochemically Reactive--California Rule 102.

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: N/A

DOT: N/A

LOWEST FLASHPOINT TCC: N/A F

EXPLOSION LEVEL: LOWER- 2.4 UPPER- 22.0

UPPER FLAMMABILITY LIMIT: N/A

AUTO IGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, OR FOAM.

UNUSUAL FIRE HAZARD: WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. VAPORS MAY BE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND BEFORE IGNITION/FLASHING BACK TO VAPOR SOURCE.

UNUSUAL FIRE HAZARDS: HEAT MAY SUBSTANTIALLY INCREASE THE AMOUNT OF SOLVENT VAPOR IN THE AIR.

FORMS FLAMMABLE VAPOR AND AIR MIXTURES.

THIS PRODUCT CONTAINS EXTREMELY FLAMMABLE SOLVENTS WHOSE VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR.

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SPECIAL FIREFIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED POSITIVE PRESSURE BREATHING APPARATUS.

SECTION V: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WITH BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE, BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS, MAY BE HARMFUL OR FATAL. AVOID BREATHING VAPORS OR SPRAY MIST.

SKIN CONTACT: MAY CAUSE IRRITATION.

EYE CONTACT: MAY CAUSE SEVERE IRRITATION OR BURNS.

EYE CONTACT: SEVERE IRRITATION OR BURNS.

SKIN CONTACT: MODERATE IRRITATION.

INHALATION: MAY CAUSE DIZZINESS, UNCONCIOUSNESS, OR ASPHYXIATION.

INGESTION: MAY CAUSE STOMACH IRRITATION.

INHALATION: OVEREXPOSURE MAY CAUSE RESPIRATORY IRRITATION.

IN POORLY VENTILATED AREAS, HIGH CONCENTRATIONS MAY CAUSE NARCOSIS, OR EVEN UNCONCIOUSNESS OR DEATH.

PRIMARY ROUTES OF ENTRY: INHALATION AND INGESTION.

FIRST AID PROCEDURES: FLUSH EYES WITH LUKE WARM WATER FOR 15 MINUTES AND OBTAIN PROMPT MEDICAL ATTENTION.

WASH SKIN WITH SOAP AND WATER.

IF SWALLOWED, DO NOT INDUCE VOMITING. OBTAIN EMERGENCY MEDICAL HELP.

VOMITING MAY LEAD TO CHEMICAL PNEUMONITIS, WHICH CAN BE FATAL.

IF INHALED REMOVE EXPOSED INDIVIDUAL TO FRESH AIR. RESTORE BREATHING IF REQUIRED. CONTACT A PHYSICIAN IMMEDIATELY.

CHRONIC EXPOSURE MAY PRODUCE DEPRESSION, GENERAL WEAKNESS, AND POSSIBLE LIVER DAMAGE.

OVEREXPOSURE MAY CAUSE RESPIRATORY IRRITATION, AND IMPAIR THE BLOOD'S ABILITY TO TRANSPORT OXYGEN.

MEDICAL CONDITIONS PRONE TO AGGRAVATION: PERSONS WITH A HISTORY OF CARDIOVASCULAR DISEASE SHOULD AVOID BREATHING THE VAPORS. REPEATED AND EXCESSIVE EXPOSURE TO VAPORS MAY CAUSE KIDNEY, LIVER, OR LUNG DAMAGE.

CONTAINS METHYLENE CHLORIDE.

WARNING! THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR REPRODUCTIVE HARM.

SECTION VI: REACTIVITY DATA

THIS PRODUCT IS STABLE. POLYMERIZATION WILL NOT OCCUR.

AVOID EXPOSURE TO SPARKS, OPEN FLAMES, HOT SURFACES, AND ALL SOURCES OF HEAT AND IGNITION.

AVOID AMINES, ALUMINUM, AND MAGNESIUM.

HAZARDOUS DECOMPOSITION PRODUCTS: MAY PRODUCE HAZARDOUS FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN.

FUMES MAY ALSO CONTAIN HYDROGEN CHLORIDE.

FUMES MAY CONTAIN HYDROFLUORIC AND HYDROCHLORIC ACIDS.

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SECTION VII: SPILL OR LEAK PROCEDURES

EVEN WHEN EMPTY, THE CONTAINERS OF THIS PRODUCT MAY PRESENT FIRE OR EXPLOSION HAZARDS. DO NOT USE WELDING OR CUTTING TORCHES ON OR NEAR THE CONTAINERS. FOLLOW THE LABEL WARNINGS.
PROCEDURE FOR SPILLS: PREVENT FLOW INTO SEWERS AND WATERWAYS. CLEAN UP WITH AN INERT ABSORBANT.
WASTE: DISPOSE OF IN ACCORDANCE WITH APPLICABLE LOCAL AND NATIONAL REGULATIONS FOR HAZARDOUS MATERIALS. DO NOT INCINERATE CLOSED CONTAINERS.

SECTION VIII: SAFE HANDLING AND USE DATA

RESPIRATORY PROTECTION: IF EXPOSURE EXCEEDS TLV, USE A NIOSH APPROVED SUPPLIED-AIR RESPIRATOR OPERATED IN A POSITIVE PRESSURE MODE. USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS, AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. PROVIDE GENERAL DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP TLV OF THE MOST HAZARDOUS INGREDIENT IN SECTION II BELOW ACCEPTABLE LIMIT, AND TO REMOVE DECOMPOSITION PRODUCTS DURING WELDING OR FLAMECUTTING ON SURFACES COATED WITH THIS PRODUCT.
IF TLV IS EXCEEDED, USE A NIOSH APPROVED, POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS.
EYE PROTECTION: SPLASH GOGGLES OR A FACE SHIELD SHOULD BE USED WHERE THERE IS A POSSIBILITY OF SPLASHING. EMERGENCY EYE WASH FOUNTAINS SHOULD BE IN THE VICINITY.
OTHER PROTECTION: NEOPRENE OR RUBBER GLOVES SHOULD BE USED WHEN CONSTANT SKIN EXPOSURE IS EXPECTED. FOLLOW PRUDENT HYGIENIC PRACTICES.
LILLY-RAM TAKES NO RESPONSIBILITY FOR DETERMINING WHAT MEASURES ARE REQUIRED FOR PERSONAL PROTECTION IN ANY SPECIFIC APPLICATION. THE GENERAL INFORMATION GIVEN SHOULD BE USED WITH DISCRETION.

SECTION IX: SPECIAL PRECAUTIONS

KEEP PRODUCT CONTAINERS COOL, DRY, AND AWAY FROM SOURCES OF IGNITION. USE AND STORE THIS PRODUCT WITH ADEQUATE VENTILATION. DO NOT SMOKE IN STORAGE AREAS. KEEP CONTAINERS CLOSED WHEN NOT IN USE.
DO NOT TAKE INTERNALLY. FOR INDUSTRIAL USE ONLY.
KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH PLASTIC OR RUBBER EQUIPMENT, CLOTHING, OR CONTAINERS.

SECTION X: SECTION 313 TOXIC CHEMICALS

THE INFORMATION CONTAINED HEREIN IS INFORMATION RECEIVED FROM OUR RAW MATERIAL SUPPLIERS AND OTHER SOURCES AND IS BELIEVED TO BE RELIABLE. THIS DATA IS NOT TO BE TAKEN AS A WARRANTY OR REPRESENTATION FOR WHICH LILLY-RAM IND. ASSUMES LEGAL RESPONSIBILITY.

This product contains the following toxic chemicals 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:

CHEMICAL

CAS NUMBER

WEIGHT %

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CHLOROFLUOROETHANE

76-13-1

2.17

METHYLENE CHLORIDE

75-09-2

77.29

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