



MATERIAL SAFETY DATA SHEET

FOR COATING, RESINS, AND RELATED MATERIALS

Date of Preparation- 02-27-95
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SECTION I PRODUCT IDENTIFICATION

Manufacturer's code Identification:85-X3
Product Class;
Trade Name: SURFACING AGENT

HMIS Information; Health- 2* Flammability- 3
Reactivity- 2 Personal Protective Equipment- X
HAZARD INDEX: 4= Severe 3= Serious 2= Moderate 1= Slight 0= Least

Ask your supervisor for specialized handling directions.

SECTION II HAZARDOUS INGREDIENTS

STYRENE MONOMER.

01 CAS# 100-42-5
% BY WT 90.000 VAPOR PRESSURE: 9.50 MHG @ 20C

EXPOSURE LIMIT

ACGIH TLV (TWA) 50.00 PPM
OSHA PEL (TWA) 100.00 PPM
Carcinogen 2B, IARC

SECTION III PHYSICAL DATA

Boiling Range: High- 261.0 F Low- 261.0 F
Vapor Pressure: See Section II
Vapor Density: Heavier Than Air
Evaporation Rate: Slower than Butyl Acetate
Weight per Gallon: 7.53
% Volatile by Weight: 90.00
Appearance: N/A
pH: N/A



85-X3

SURFACING AGENT

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Class 1C

Lowest Flashpoint TCC: 88.0 F

Explosion Level: Lower- 1.1 Upper- 6.1

Lower Flammability Limit: N/A

HEAT PROTECTION PROCEDURES

Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build up which could result in container rupture.

EXTINGULSHING MEDIA

Use CO2, Dry Chemical, or Foam extinguisher.

The National Fire Protection Association Class B extinguisher is designed to extinguish fires originating from burning liquids.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

UNUSUAL FIRE AND EXPLOSION HAZARD:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near container (even empty) because product (even residue) may ignite explosively.

SECTION V HEALTH HAZARD DATA

Based on the presence of components (01) this product may cause skin irritation.

Based on the presence of components (01) this product may cause drying and dermatitis on repeated or prolonged exposure to the skin. Based on the presence of components (01) this product may cause corneal, injury. Based on the presence of components (01) this product is presumed I to be moderately toxic.

FIRST AID

EYE CONTACT: Flush with luke warm water for 15 minutes. Contact a physician immediately.

SKIN CONTACT: Flush wash with copious amounts of luke warm water. Remove contaminated clothing promptly. Contact a physician immediately.

INHALATION: Remove exposed individual to fresh air. Restore breathing if required. Contact a physician immediately.

INGESTION; Rinse mouth immediately. Give exposed individual 6 to 8 ounces of liquid. (Never give anything by mouth to an unconscious person.) Do NOT induce vomiting unless advised by a physician. Contact a physician



85-X3

SURFACING ACENT

immediately.

SECTION VI REACTIVITY DATA

CONDITIONS TO AVOID

Avoid exposure to sparks, open flame, hot surfaces, and alt sources of hat and ignition.
May produce hazardous tunes when heated to decomposition as in welding.
Fumes may contain carbon monoxide, carbon dioxide, and oxides of nitrogen.

INCOMPATIBILITY (Materials to Avoid)

Based on the presence of components (01) this product is incompatible with strong mineral acids, peroxides, and polymerization catalysts.

HAZARDOUS POLYMERIZATION

May occur.

STABILITY

This product is stable.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKER IN CASE MATERIAL. IS RELEASED OR SPILLED

Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spilt. Use non-sparking tools for cleanup. Cover with inert material to reduce fumes. Keep out of drains, sewers, Or waterways Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams it large spill.

WASTE DISPOSAL METHOD

DO NOT FLUSH TO SEWER, WATERSEED, OR WATERWAY.

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers.

SECTION VIII SAFE HANDLING AND USE INFORMATION

PROTECTIVE EYEWEAR

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes. Eyewash stations and safety showers should be readily available in handling areas.

Use safety eyewear with perforated sideshields.

RESPIRATORY PROTECTION

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOS}/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate arid gas and vapor. In confined areas use (NIOSE/MSHA approved) air line type respirators or hoods. Respiratory protection may also be



85-X3

SURFACING AGENT

necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

VENTILATION

Use ventilation as required to control vapor concentrations. Avoid prolonged or repeated breathing of vapors. If exposure exceeds TLV, use a NIOSH-approved respirator to prevent overexposure.

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, LEL in Section XV below stated limit, and to remove decomposition products during welding or flame cutting on surfaces coated with this product.

HYGIENIC PRACTICES

WASH HANDS THOROUGHLY BEFORE EATING AND USING WASHROOM.

Remove contaminated clothing immediately and do not wear it until it has been properly laundered.

DISCRETION ADVISED

Lilly Industries, Inc. 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.

PROTECTIVE GLOVES

Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

SECTION IX SPECIAL PRECAUTIONS

HANDLING AND STORING 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.

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this sheet must be observed.

SECTION X Section 313 Toxic Chemicals

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. This information must be included in all MSDSs that are copied and distributed for this material. (* Denotes percent parent metal contained in the preceding chemical compound)



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85-X3

SURFACING AGENT

Chemical	CAS Number	Weight %
STYRENE MONOMER	100-42-5	90.000

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 INDUSTRIES, INC. ASSUMES LEGAL RESPONSIBILITY.
