

SAFETY DATA SHEET



Date Prepared : 01/05/2023
SDS No : X2-TC6

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Lilly Ram Clear Topcoat
GENERAL USE: Coatings
PRODUCT DESCRIPTION: Super Clear Topcoat
PRODUCT CODE: X2-TC6
CHEMICAL FAMILY: Polyester

MANUFACTURER

Lilly-RAM Chemical Company
16170 Cedar Lane Loop
Willis, TX 77378

Emergency Contact: Lilly Ram

Emergency Phone:
909-223-9699 **Customer Service:**
909-223-9699 **E-Mail:**
composites@lillyram.com

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical) : (877) 800-5553
CANUTEC (Canadian Transportation) : (613) 996-6666
CHEMTREC (US Transportation) : (800) 424-9300

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Flammable Liquids, Category 3
Skin Irritation, Category 2
Eye Irritation, Category 2A

Health:

Carcinogenicity, not classified

GHS LABEL

Flammable liquid & vapors



Flame



Exclamation
mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H226: Flammable liquid and vapour.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

General:

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P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

Prevention:

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P264: Wash exposed areas thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see ... on this label).

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P370: In case of fire:.

P378: Use carbon dioxide (co2), dry chemical powder, foam to extinguish.

Storage:

P403: Store in a well-ventilated place.

P235: Keep cool.

Disposal:

P501: Dispose of contents/container to in accordance with local, state and federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Resin (proprietary)	≤ 60	
Styrene	≤ 37	100-42-5
2-butanone	1 - 10	78-93-3
Methanol	1 - 7	67-56-2

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Rinse Mouth Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

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SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Serious eye irritation.

SKIN: Contact causes skin irritation.

SKIN ABSORPTION: NA = Not Applicable

INHALATION: May cause headaches and dizziness.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: 3

EXPLOSION HAZARDS: May form flammable/explosive vapor-air mixture.

FIRE FIGHTING PROCEDURES: Use foam. Dry powder. Carbon Dioxide (co2). Water spray. Sand

FIRE FIGHTING EQUIPMENT: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire exposed containers to minimize risk of rupture,

FIRE EXPLOSION: Flammable liquid. Vapors may spread long distances and ignite. Vapors and fumes may form explosive mixture with air.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Avoid runoff into storm sewers and ditches which lead to waterways.

LARGE SPILL: This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

GENERAL PROCEDURES: Clean up spills immediately, observing precautions in Protective Equipment section.

SPECIAL PROTECTIVE EQUIPMENT: Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Exposure Controls/Personal Protection Section).

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Store in a tightly closed container. Use spark proof tools and explosion proof equipment.

HANDLING: Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

STORAGE: Store in a cool dry place.

STORAGE TEMPERATURE: Store in a cool place below (68) F (20) C

SHELF LIFE: 6 months at (65) F

COMMENTS: Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Styrene	TWA	100	420	20	85
	STEL	200		40	170
2-butanone	TWA	200	590	200	590
	STEL			300	885

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

SKIN: Wear protective gloves

RESPIRATORY: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

PROTECTIVE CLOTHING: Wear suitable protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point (°C)	Melting Point (°C)	Boiling Point (°C)	Solubility in Water	Specific Gravity
Styrene	30 Closed cup	-31	145	Slight	0.91

PHYSICAL STATE: Liquid

ODOR: Of Solvent

ODOR THRESHOLD: No data available.

COLOR: Pink

pH: No Data available

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PERCENT VOLATILE: 10-25%

FLASH POINT AND METHOD: $\geq 36^{\circ}\text{C}$ (98°F) Pensky-Martens closed cup (ASTM D-93)

FLAMMABLE LIMITS: 1.1 Styrene to 6.1 Styrene

AUTOIGNITION TEMPERATURE: No data available.

VAPOR PRESSURE: Less than 7.5 mm Hg @ 68 F (20 C)

VAPOR DENSITY: 3.59 Styrene

Notes: Air = 1

BOILING POINT: Styrene: 293 F (145 C)

FREEZING POINT: Styrene: -23 F (-30.5 C)

MELTING POINT: No data available.

THERMAL DECOMPOSITION: No data available.

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: No data available.

DENSITY: Clears

SPECIFIC GRAVITY: 1.12 at 20°C (68°F)

MOLECULAR WEIGHT: No data available.

(VOC): 71.000 grams per Liter

10. STABILITY AND REACTIVITY

REACTIVITY: No reactivity hazard other than the effects described in sub-sections below.

HAZARDOUS POLYMERIZATION: May occur. If product is not stored in dark at temperatures below 68 F (20 C), polymerization may occur.

STABILITY: Stable. However, may decompose if heated.

CONDITIONS TO AVOID: Direct sunlight. Extremely high or low temperatures. Open Flame.

HAZARDOUS DECOMPOSITION PRODUCTS: Fumes. Carbon monoxide. Carbon Dioxide. May release flammable gases.

INCOMPATIBLE MATERIALS: Strong Bases. Strong Acids.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Styrene	1600 to 1300 mg/kg	> 91000 mg/kg	2232 PPM

EYES: Non-irritant (rabbit)

DERMAL LD₅₀: Slightly irritating, 24h (rabbit)

ORAL LD₅₀: Greater than 5,000 mg/kg (rat)

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EYE EFFECTS: Causes serious eye irritation.

SKIN EFFECTS: Causes skin irritation.

CARCINOGENICITY

IARC: Styrene 100-42-5 2B Possibly carcinogenic to Humans.

OSHA: Not Established

IRRITATION: Causes skin irritation.

CORROSIVITY: NA = Not Applicable

NEUROTOXICITY: No data available.

REPRODUCTIVE EFFECTS: Not classified

TARGET ORGANS: No data available.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY (ACUTE): No further relevant information available.

GENERAL COMMENTS: Water hazard class 2 (self assessment): Hazardous for water. Do not allow to reach ground water, water course or sewage system.
Danger to drinking water.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Dispose of in accordance with FEDERAL, STATE and local regulations. incineration is the preferred method of disposal.

EMPTY CONTAINER: Handle empty containers with care because residual vapors are Flammable. Dispose of in a safe manner in accordance with local/national regulations. Dispose of contents and containers to an approved site.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Resin Solution

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1866

PACKING GROUP: III

U.S. SURFACE FREIGHT CLASS: 55

MARINE POLLUTANT #1: No data available.

OTHER SHIPPING INFORMATION: None known.

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Resin Solution

UN NUMBER: 1866

HAZARD CLASS: 3

CLASSIFICATION CODE: 3- Flammable Liquid

PACKING GROUP: III

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LABEL: 3 - Flammable Liquid

AIR (ICAO/IATA)

SHIPPING NAME: Resin Solution

UN/NA NUMBER: 1866

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: III

LABEL: 3 - Flammable Liquid

VESSEL (IMO/IMDG)

SHIPPING NAME: Resin Solution

UN/NA NUMBER: 1866

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: III

MARINE POLLUTANT #1: No data available.

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Flammable
Liquid

R10: Flammable.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
Styrene	15 - 35	100-42-5

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Styrene	15 - 35	1,000
2-butanone	1 - 10	5,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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Chemical Name	
Styrene	100-42-5
2-butanone	78-93-3

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Flammable
Liquid

16. OTHER INFORMATION

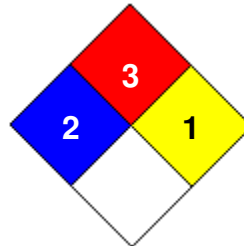
PREPARED BY: C. WILLIAM Date: 01/05/2023

Section 16: NFPA CODES - REACTIVITY.

HMIS RATING

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		1
PERSONAL PROTECTION		H

NFPA CODES



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