

Section 1:

LOTUS S4 SEALANT

Safety Data Sheet (SDS)

Manufacturer: Advanced Roofing Technologies

Revision Date: 11/20/24

SECTION II: HAZARD IDENTIFICATION

Hazard Classification:

Carcinogenicity

Category 1A

Germ Cell Mutagenicity

Category 1B

Respiratory sensitizer

Category 1

Skin sensitizer

Category 1



DANGER

Hazard Statements:

May cause cancer through chronic inhalation.

Causes severe skin burns and serious eye damage.

May cause allergic skin reactions.

Causes damage to lungs through prolonged inhalation.

May cause respiratory irritation.

Precautionary Statements:

Avoid inhalation of dust; use in well-ventilated areas.

Wear protective gloves, clothing, and eye protection.

If exposed: Follow first aid measures.

Dispose of in accordance with regulations.

SECTION III: HAZARDOUS INGREDIENTS

	Name	EINECS NO	CAS NO	CONTENT %	CLASSIFICATION (CLP)
	4,4'-methylenediphenyl diisocyanate	202-966-0	101-68-8	0,1-0,3	Carcinogenicity, Category 2; H351 Acute toxicity, Category 4, inhalation; H332 Specific Target Organ Toxicity (repeated exposure), Category 2; H373 Eye irritation, Category 2; H319 Specific Target Organ Toxicity (single exposure), Category 3; H335 Skin irritation, Category 2; H315 Respiratory sensitisation, Category 1; H334 Skin sensitisation, Category 1; H317
	Xylene	215-535-7	1330-20-7	10-20	Flammable liquids, Category 3; H226 Acute toxicity, Category 4, dermal; H312 Acute toxicity, Category 4, inhalation; H332 Skin irritation, Category 2; H315
	Calcium oxide	215-138-9	1305-78-8	0-2	Skin irritation, Category 2; H315 Serious eye damage, Category 1; H318 Specific Target Organ Toxicity (single exposure), Category 3; H335
4	FIRST AID MEASURES				
	4.1. Description of first aid measures 4.1.1. General information Consult a physician. Show this safety data sheet to the doctor in attendance. 4.1.2. Following inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. 4.1.3. Following skin contact Wash off with soap and plenty of water. Consult a physician. 4.1.4. Following eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.				

SECTION IV: FIRST AID MEASURES

Inhalation:	Move to fresh air. Administer oxygen if needed. Seek medical attention for difficulty breathing.
Skin Contact:	Wash with cool water and pH-neutral soap. Seek medical attention for burns or irritation.
Eye Contact:	Flush eyes with water for several minutes. Remove contact lenses if applicable.
Ingestion:	Do NOT induce vomiting. Drink water and contact a physician immediately.
Most Critical Symptoms:	Skin burns and irritation. Respiratory irritation and damage. Eye damage.
Chronic exposure:	Silicosis and potential carcinogenic effects.

SECTION V: FIRE-FIGHTING MEASURES

Suitable extinguishing media :	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information :	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters : apparatus	In the event of fire, wear self-contained breathing

SECTION VI: ACCIDENTAL RELEASE MEASURES

**Personal precautions,
protective equipment
emergency procedures:**

**Ventilate closed spaces before entering them.
Evacuate area. See Section 8 of the SDS for and
Keep upwind. Keep unauthorized personnel
away. Do not touch damaged containers or spilled
material unless wearing appropriate protective
clothing.**

**Methods and material for
containment and cleaning
Up:**

**Dam and absorb spillages with sand, earth or other
non-combustible
material. Collect spillage in containers, seal
Securely and deliver for disposal according
to local regulations.**

Notification Procedures:

**In the event of a spill or accidental release, notify
relevant authorities in accordance with all
applicable regulations.**

Environmental Precautions:

**Avoid release to the environment. Prevent further
leakage or spillage if safe to do so.**

SECTION VII: HANDLING AND STORAGE

**Advice on protection against
fire and explosion :**

Normal measures for preventive fire protection.

Advice on safe handling :

**Avoid formation of aerosol.
Avoid exceeding the given occupational exposure
limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitization
problems or asthma, allergies, chronic or
recurrent respiratory disease should not be
employed in any process in which this mixture is
being used.
Smoking, eating and drinking should be
prohibited in the application area.
Provide sufficient air exchange and/or exhaust in
work rooms. Follow standard hygiene measures
when handling chemical products**

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Appropriate Engineering:
Control** **Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.**

Individual protection measures, such as personal protective equipment

General information: **Use personal protective equipment as required.**

Eye/face protection: **Wear goggles/face shield.**

**Skin Protection and
Hand Protection:** **Use suitable protective gloves if risk of skin contact.**

Other: **Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.**

Respiratory Protection: **If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.**

**Hygiene measures:
hands** **Observe good industrial hygiene practices. Wash before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.**

SECTION IX: PHYSICAL/CHEMICAL PROPERTIES

Appearance :	Viscous
Color :	Gray
Odor :	Characteristic
Odor Threshold :	No data available
pH :	Not applicable
Melting point/range / Freezing point :	No data available
Boiling point/boiling range :	No data available
Flash point :	40 °C
(Method: closed cup)	
Evaporation rate :	No data available
Flammability (solid, gas) :	No data available
Upper explosion limit / Upper flammability limit :	No data available
Lower explosion limit / Lower flammability limit :	No data available
Vapor pressure :	0.04 hpa
Relative vapor density :	No data available
Density :	1.40 g/cm ³ (73 °F / 23 °C)
Solubility(ies)	
Water solubility :	insoluble
Solubility in other solvents :	No data available
Partition coefficient n-octanol/water :	No data available
Autoignition temperature :	No data available
Decomposition temperature :	No data available
Viscosity	
Viscosity, dynamic :	No data available
Viscosity, kinematic :	ca. > 21.2 mm ² /s (104 °F / 40 °C)
Explosive properties :	No data available
Oxidizing properties :	No data available

SECTION X: STABILITY AND REACTIVITY

Reactivity :	No dangerous reaction known under conditions of normal use.
Chemical stability :	The product is chemically stable.
Possibility of hazardous reactions :	Stable under recommended storage conditions.
Conditions to avoid :	No data available
Incompatible materials :	No data available
Hazardous decomposition products:	No decomposition if stored and applied as directed.

SECTION XI: TOXICOLOGICAL INFORMATION

Acute toxicity:	Harmful if inhaled.
Skin corrosion/irritation:	Causes skin irritation. Harmful in contact with skin.
Serious eye damage/eye irritation:	Causes serious eye irritation
In case of ingestion:	No data available

SECTION XII: ECOLOGICAL INFORMATION

Ecotoxicity:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effects Product:	
Additional ecological information	: Do not empty into drains; dispose of this material avoid its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Avoid creating airborne dust during disposal.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION XIV: TRANSPORT INFORMATION

International Regulations

IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good
Domestic regulation	49 CFR
	Not regulated as a dangerous good

SECTION XV: REGULATORY INFORMATION

TSCA list : All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)
Isocyanatomethyl	4098-71-9	500

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Isocyanatomethyl	4098-71-9	500

SARA 311/312 Hazards :

Acute toxicity (any route of exposure)
Respiratory or skin sensitization
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

WARNING: This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Full text of other abbreviations

OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)

OSHA P0 / TWA : 8-hour time weighted average

OSHA P0 / STEL : Short-term exposure limit

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