

Section 1. Identification

Product Name: ROYALSIL HI-PURITY MOS

Product Use: MOS is a neutral curing agent and crosslinking agent used in RTV silicone rubber and silicone sealants.

Effective Date: 5 May 2017

Replaces: 8 April 2015

Supplier Information:

ROYALSIL, Inc.
25 Lancelot Lane
Mount Laurel, NJ 08054-1912

USA Emergency Phone Number:

CHEMTREC (24-hr/7 days): 1-800-424-9300

Refer to ROYALSIL, Inc. Contract # CCN674872.

Section 2. Hazard(s) Identification

Emergency Overview: Clear to straw color liquid. Causes mild skin irritation. Cause serious eye damage. Harmful to aquatic life.

GHS Classification:

Skin Sensitization

Category 1

Skin Irritation

Category 2

Carcinogenic

Category 2

Eye irritation

Category 2



GHS Pictograms:

GHS Label: DANGER

POTENTIAL HEALTH EFFECTS:

CODE OF HAZARD STATEMENTS:

Physical Hazards

H227- Combustible Liquid.

Health Hazards

H227- Combustible Liquid.

H303- May be harmful if swallowed.

H315- Causes skin irritation

H320- Causes eye irritation.

H332- Harmful if inhaled.

H350- May cause cancer.

Environmental Hazards

H402- Harmful to aquatic life.

CODE OF PRECAUTIONARY STATEMENTS:

General

P101- Keep out of reach of children.

P103- Read label before use.

Prevention Statements

P202- Do not handle until all safety precautions have been read and understood.

P210- Keep away from heat/sparks/open flames/hot surfaces. No Smoking.

P233- Keep container tightly closed.

P240- Ground/bond container and receiving equipment.

P242- Use only non-sparking tools.

P243- Take precautionary means against static discharge.

P261- Avoid breathing dust/fume/gas/mist/vapor/spray.

P262- Do not get in eyes, on skin or on clothing.

P264- Wash thoroughly after handling using this product.

P270- Do not eat, drink, or smoke when using this product.

P271- Use only outdoors or in a well-ventilated area.

P273- Avoid release to the environment.

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

Response Statements

P302- P352- IF ON SKIN (or hair): wash with plenty water/soap.

P304- P312- P340 - IF INHALED. Remove victim to fresh air and keep at rest in apposition comfortable and breathing. Call a POISON CENTER or doctor/physician you feel unwell.

P305- P310- P338- P351 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POSION CENTER or doctor/physician if you feel unwell.

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

P363- Wash contaminated clothing before reuse.

P370- P378- In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Storage

P235- P403- Store in well-ventilated place. Keep cool.

Disposal

P501- Dispose of contents/container to an approved waste disposal plant.

ROUTES OF ENTRY: Eye contact, skin adsorption, ingestion and inhalation.

CARCINOGENICITY: May cause cancer.

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	EINECS No.	%	Reach No.
Methyltris(methylethylketoxime)silane	22984-54-9	245-366-4	≥95%	No
Methylethylketoxime	96-29-7	202-496-6	> 2%	Yes

Section 4. First Aid Measures

General Advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

Eye Contact: Flush eyes with water immediately while holding eyelids open. Remove contacts, if worn, after initial flushing and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact: Use soap and water to remove from the skin, remove contaminated clothing, clean thoroughly before reuse. If irritation persists, contact a physician.

Inhalation: Move to fresh air. If not breathing, give rescue breathing. If breathing is difficult, give oxygen. Seek medical attention if breathing is still difficult.

Ingestion: If swallowed, get medical attention immediately. **DO NOT INDUCE VOMITING.** Never give anything by mouth to an unconscious person.

Note to Physician: Treat symptomatically and supportively.

Section 5. Fire Fighting Measures

Flash Point: 194°F (90°C) Combustible liquid

Flammability Limits: LEL: ND UEL: ND

Fire Fighting Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Eliminate all sources of ignition and ensure adequate ventilation. This product may produce explosive mixtures with air. First responders need to wear full-bunker gear with Self Contained Breathing Apparatus (SCBA), never enter a confined space unless fully protected with proper personal protective equipment (PPE).

Section 6. Accidental Release Measures

Use personal protective equipment, see section 8.

Clean-up Procedures: This product may cause explosive mixtures with air. Avoid open flames, sparks and heat sources and use non-sparking tools to clean up the absorbed material. Stop the source of the release if you are not put at risk. Use inert absorbent material (such as earth, diatomaceous earth, vermiculite) to absorb the spill, use non-sparking shovel to pick up absorbent for disposal. Assure sufficient ventilation.

Spills and Leaks: Dispose in accordance to local, state or Federal regulations.

Section 7. Handling and Storage

Handling: Provide good ventilation. Wear personal protective equipment, see section 8. Do not get into eyes, on skin and on clothing. Do not breathe vapors or mists. Use with adequate ventilation. Wash thoroughly after handling.

Storage: Store in original labeled container. Keep in cool and dry areas.

Section 8. Exposure Controls/Personal Protection

Introductory Remarks: Use process exposures such as local exhaust ventilation or other engineering controls to minimize airborne exposure. A safety shower and eye wash should be readily available.

The permissible exposure limits (PEL) for methanol is 260 mg/m³.

Personal Protection:

Eyes: Wear safety goggles or face shield to prevent eye contact.

Body: Chemical apron, long sleeve shirts, long pants, socks, and rubber boots.

Hands: Chemical resistant gloves.

Respiratory: Wear an approved respirator that provides protection from this product if the airborne concentrations exceed the recommended exposure limits.

Section 9. Physical and Chemical Properties

Physical State, Color, Odor	Clear to straw color liquid with mild odor	Melting Point	-108.4°F (-22°C)
Flash Point	194 °F (90°C)	Boiling Point	215.6°F (110°C)
Density(water=1)	0.98 g/ml @ 77°F (25°C)	pH	7

Section 10. Stability and Reactivity

Chemical Stability: Considered stable under normal ambient temperatures.

Hazardous Decomposition: In complete combustion, oxides of carbon, nitrogen and silicate are formed. Methanol and methylethylketone are formed.

Hazardous Polymerization: Will not occur.

Incompatibility- Materials to Avoid: Reacts with strong acids, bases and water.

Section 11. Toxicological Information

Toxicology: Acute Oral LD₅₀ (rat) => **9,500 mg/KG**

Acute Dermal LD₅₀ (rabbit) => **9,500 mg/KG**

Acute Inhalation LC₅₀ (rat) => **42.1 mg/L (4 hours)**

Skin Irritation: Mildly irritating.

Eye Irritation: Can cause damage to eyes.

Acute Inhalation Toxicity: Expected to be an irritant to the respiratory system.

Reproductive Toxicity: No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.

Carcinogenic Effects: May cause cancer.

Section 12. Ecological Information

Ecotoxicity: LD₅₀ (Rainbow trout) = > 110 mg/L (96 hours)

EC₅₀(Green algae) = > 120 mg/L (30 days)

EC₅₀(Daphnia) = > 122 mg/L (48 hour)

This is toxic to aquatic organisms.

Environmental Fate: Ingredients are not readily bio degradable. Expect low mobility in soil.

Section 13. Disposal Considerations

Waste Disposal Method: Whatever cannot be saved for recovery or recycling should be managed by the local, state or Federal Regulations.

Container Handling and Disposal: All containers should be triple rinsed and disposed of according to local, state and Federal regulations.

Section 14. Transport Information

Shipping Name: ROYALSIL HI-PURITY MOS

Proper Shipping Description (Ground):

Note! In bulk may be shipped as combustible liquid.

UN1993, Flammable liquid, N.O.S., (Methyltris(methylethylketoxime)silane), 3, III

IATA: (Cargo aircraft only)

UN1993, Flammable liquid, N.O.S., (Methyltris(methylethylketoxime)silane), 3, III

Use P001 and LP01 packing instructions. The net maximum volume per package is 15 gallons (60L).

IMO (Water):

UN1993, Flammable liquid, N.O.S., (Methyltris(methylethylketoxime)silane), 3, III

Section 15. Regulatory Information

EPCRA 311/312 Categories: Immediate (Acute) Health Effects: Yes

Delayed (Chronic) Health Effects: No

Fire Hazard: Yes

Sudden Release of Pressure: No

Reactivity: No

Right to know classification: Both ingredients are listed in the states of NJ and PA.

TSCA: Both ingredients are listed.

Reportable Quantity (RQ): None.

Prop. 65: Methanol is a developmental toxic and can cause birth defects.



WHMIS: Flammable and Combustible materials.
These ingredients are listed in the DSL and NDSL list in Canada

Compound is listed as chemical inventories of Australia, Germany, Israel, Japan, Korea, Philippines, United Kingdom and United States of America.

Abbreviations:

CAS #	Chemical Abstract Service Number		
°C	Celsius Temperature Scale	°F	Fahrenheit Temperature Scale
EINECS #	European Inventory of Existing Chemical Substances Number		
hPa	hectopascal	LD ₅₀	Lethal Dose Oral or Dermal
LC ₅₀	Lethal Dose Inhalation	LEL	Lower Explosive Limit
UEL	Upper Explosive Limit	PEL	Permissible Exposure Limit
PPE	Personal Protective Equipment	Prop.	Proprietary
PSI	Pounds Per Square Inch	NA	Not Applicable
ND	Not Determined	STEL	Short Term Exposure Limit
TLV	Threshold Limit Value	TSCA	Toxic Substance Control Act
TWA	Time Weighted Average		

Section 16. Other Information

Hazardous Material Information System

National Fire Protection Association

HMIS		NFPA	
23	Health	2	Health
2	Fire	2	Fire
1	Reactivity	1	Instability
H	Personal Protection		NA

Health	4 Deadly	3 Extreme Danger	2 Dangerous	1 Slight hazard	0 No hazard
Fire	4 < 73 °C	3 < 100 °C	2 < 200 °C	1 >200 °C	0 Will not burn
Reactivity/ Instability	4 May detonate	3 Explosive	2 Unstable	1 Normally stable	0 Stable

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This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) this product has been classified according to the

hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all information required by CPR.

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