

Section 1. Identification

Product Name: ROYALSIL HI-PURITY PMEKS

Product Use: This product is used in the production of silicone sealants. **Effective Date:** 11 June 2019 **Replaces:** New

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 pale yellow combustible liquid. Causes mild skin irritation. Cause serious eye damage. May cause an allergic skin reaction. Toxic to aquatic life.

GHS Classification:

Serious Eye DamageCategory 1Skin SensitizationCategory 1Skin IrritationCategory 2Flammable liquidCategory 4

Hazardous to the Aquatic Environment Acute, Category 4



GHS Pictograms:

GHS Label: WARNING

POTENTIAL HEALTH EFFECTS: CODE OF HAZARD STATEMENTS:

Physical Hazards

H227- Combustible liquid.

Health Hazards

H227- Combustible liquid.

H303- May be harmful if swallowed.

H317- May cause an allergic skin reaction.

H318- Causes serious eye damage.

H332- Harmful if inhaled.

H351- Suspected of causing cancer.

Environmental Hazards

H401- Toxic 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.

P233- Keep container tightly closed.

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.

P305- 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.

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

P311- P342- If experiencing respiratory symptoms: call POISON CENTER/doctor.

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.

P391- Collect spillage.

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: Not suspected.

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	EINECS No.	%	Reach No.
Phenyltris(methylketoxime)silane	34036-80-1	433-360-6	>95	No
Ethylmethylketoxime	96-29-7	202-496-6	<5	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: 143°F (90°C) Combustible liquid **Flammability Limits**: LEL: ND UEL: ND

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

Special Fire Fighting Procedures: In case of fire cool endangered containers with water. Hazardous fumes in fires, specific to the product are ammonia, alcohols, amines, nitrogen and silicon oxides. 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: Stop the source of the release if you are not put at risk. Use inert absorbent material (such as sand, 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 a local exhaust ventilation or other engineering controls to minimize airborne exposure. A safety shower and eye wash should be readily available. Ethylmethylketoxime permissible exposure limit (PEL) is 10 ppm.

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,	Clear to straw color	Vapor Pressure	2.1 torr @ 68°F
Color, Odor	liquid with slight odor		(20°C)
VOC	<5%	Density(water=1)	0.995 g/ml @ 77°F
			(25°C)
Flash Point	143°F (90°C)	Boiling Point	>140°F (>60°C)

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.

Hazardous Polymerization: Will not occur.

Incompatibility- Materials to Avoid: Reacts with acids, iron, moisture, water and strong

oxidizing agent.

Section 11. Toxicological Information

Toxicology: Acute Oral LD_{50 (rat)}= 1,985 mg/kg

Skin Irritation: Mildly irritating.

Eye Irritation: Causes serious eye damage.

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

Carcinogenic Effects: Not suspected.



Section 12. Ecological Information

Ecotoxicity: $LC_{50(Daphnia)} = 750 \text{ mg/L } (96 \text{ hour})$

 $EC_{50(Fathead\ minnow)} = > 777\ mg/L\ (72\ hour)$

This is toxic to aquatic organisms. **Environmental Fate**: Mobile 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 PMEKS **Proper Shipping Description (Ground):** Not regulated.

IATA: (Cargo aircraft only): Not regulated.

IMO (Water): Not regulated.

Section 15. Regulatory Information

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

Delayed (Chronic) Health Effects: Yes Fire Hazard: Yes Sudden Release of Pressure No Reactivity: No

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

TSCA: Phenyltrisd(methylketoxime)silane and ethylmethylketoxime are on TSCA active inventory list.

Reportable Quantity (RQ): None.

Prop. 65: None.

WHMIS: Corrosive Materials



All the compounds are listed in DSL and NDSL list.

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

Abbreviations:

CAS#	Chemical Abstract Service Number		
$^{\circ}$ C	Celsius Temperature Scale	°F	Fahrenheit Temperature Scale
EINECS #	European Inventory of Existing Cher	nical Si	ubstances Number
hPa	Hectopascal	LD_{50}	Lethal Dose Oral or Dermal
LC ₅₀	Lethal Inhalation	LEL	Lower Explosive Limit
UEL	Upper Explosive Limit	PEL	Permissible Exposure Limit
PPE	Personal Protective Equipment	Prop.	Proprietary
PSI	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			
3	Health	3	Health		
2	Fire	2	Fire		
1	Reactivity	1	Instability		
Н	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 $^{\circ}$ C	1 >200 °C	0	Will not burn
Reactivity/	4 May detonate	3	Explosive	2	Unstable	1 Normally stable	0	Stable
Instability								

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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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