

**Section 1. Identification**

**Product Name:** ROYALSIL HI-PURITY ACAC

**Product Use:** For industrial use only. Used as in various paints and solvents.

**Effective Date:** 21 May 2019

**Replaces:** 8 August 2018

**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:** Colorless flammable liquid. Can be absorbed through the skin. Cause serious eye damage. Toxic to aquatic life.

**GHS Classification:**

<b>Serious Eye Damage/eye irritation</b>	<b>Category 1</b>
<b>Flammable Liquid</b>	<b>Category 3</b>
<b>Acute toxicity, dermal</b>	<b>Category 3</b>
<b>Acute toxicity, Inhalation</b>	<b>Category 3</b>
<b>Acute toxicity, Oral</b>	<b>Category 4</b>



**GHS Pictograms:**

**GHS Label:** DANGER

**POTENTIAL HEALTH EFFECTS:**

**CODE OF HAZARD STATEMENTS:**

**Physical Hazards**

H226- Flammable liquid and vapor.

**Health Hazards**

H226- Flammable liquid and vapor.

H303- May be harmful if swallowed.

H311- Toxic in contact with skin.

H332- Harmful if inhaled.

**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.

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

P233- Keep container tightly closed.

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 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 POISON CENTER or doctor/physician if you feel unwell.

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:** None.

**Section 3. Composition/Information on Ingredients**

Ingredients	CAS No.	EINECS No.	%
Acetylacetone	123-54-6	204-634-0	>99

#### **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:** 19°F (95°C) Flammable liquid

**Flammability Limits:** LEL: 1.7% UEL: 11.4%

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

**Special Fire Fighting Procedures:** In case of fire cool endangered containers with water. Hazardous fumes in fires, specific to the product are carbon 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:** Avoid contact with skin and eyes. Avoid inhalation of vapor. Keep away from all heat sources. 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. Store at 41°F to 86°F (5°C to 30°C). Wear personal protective equipment, see section 8. Do not get into eyes, on skin and on clothing. Do not breathe vapors. 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. Acetylacetone permissible exposure limit (PEL) is 25 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**

<b>Physical State, Color, Odor</b>	Colorless liquid with mild odor	<b>pH</b>	10.6 (10g/L) @ 68°F (20°C)
<b>Ignition Temperature</b>	644°F (340°C)	<b>Density(water=1)</b>	0.975 g/ml @ 68°F (20°C)
<b>Flash Point</b>	93°F (34°C)	<b>Boiling Point</b>	284°F (1400°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 strong oxidizing agent, acids, bases, alcohols, peroxides and water.

**Section 11. Toxicological Information**

**Toxicology:** Acute Oral LD<sub>50</sub> (rat) = > 570 mg/KG

Acute Dermal LD<sub>50</sub> (rabbit) = > 790 mg/KG

Acute Inhalation LC<sub>50</sub> (rat) = > 5.1 mg/L

**Skin Irritation:** Mildly irritating.

**Eye Irritation:** Mild eye irritation.

**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:** None.

**Section 12. Ecological Information**

**Ecotoxicity:** LC<sub>50</sub>(Minnow) = 106 mg/L (96 hour)  
EC<sub>50</sub>(Green algae) = 83.22 mg/L (72 hour)  
EC<sub>50</sub>(Daphnia) = > 90 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:** DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH AN ELECTRIC OR GAS TORCH. 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 ACAC

**Proper Shipping Description (Ground):**

UN2310, Pentane-2,4-dione, 3, 6.1, III

**IATA: (Cargo aircraft only)**

UN2310, Pentane-2,4-dione, 3, 6.1, III

Use packing instruction 309. Maximum quantity is 15.85 gals (60 L)

**IMO (Water):**

UN2310, Pentane-2,4-dione, 3, 6.1, III

Use packing instruction P001

**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:** Acetylacetone is listed in the states of MA, NJ and PA.

**TSCA:** This product is not on active inventory list.

**Reportable Quantity (RQ):** None.

**Prop. 65:** None.



**WHMIS:** Flammable and Combustible materials.



Materials Causing Immediate and Serious Toxic Effects

Acetylacetone is in the DSL and NDSL list in Canada

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

**Abbreviations:**

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CAS #	Chemical Abstract Service Number		
°C	Celsius Temperature Scale	°F	Fahrenheit Temperature Scale
EINECS #	European Inventory of Existing Chemical Substances Number		
hPa	hectopascal	LD <sub>50</sub>	Lethal Dose Oral or Dermal
LC <sub>50</sub>	Lethal Concentration	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		

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**Section 16. Other Information**

**Hazardous Material Information System**

**National Fire Protection Association**

HMIS		NFPA	
2	Health	2	Health
3	Fire	3	Fire
0	Reactivity	0	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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