

Section 1. Identification

Product Name: ROYALSIL HI-PURITY ACAC

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

Effective Date: 8 August 2018

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

GHS Classification:

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



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/bond container and receiving equipment.

P241- Use explosion-proof electrical/ventilating/lighting equipment.

P242- Use only non-sparking tools.

P243- Take precautionary measures 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 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.	%	Reach No.
Acetylacetone	123-54-6	204-634-0	>98	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: 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

Physical State, Color, Odor	Colorless liquid with mild odor	pH	10.6 (10g/L) @ 68°F (20°C)
Ignition Temperature	644°F (340°C)	Density(water=1)	0.975 g/ml @ 68°F (20°C)
Flash Point	93°F (34°C)	Boiling Point	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 LD₅₀ (rat) => **570 mg/KG**

Acute Dermal LD₅₀ (rabbit) => **790 mg/KG**

Acute Inhalation LC₅₀ (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: LC₅₀(Minnow) = 106 mg/L (96 hour)
EC₅₀(Green algae) = 83.22 mg/L (72 hour)
EC₅₀(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: 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: It is listed.

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:

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 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		

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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