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MATERIAL SAFETY DATA SHEET (MSDS)**QUINALDIC ACID (FOR SYNTHESIS)****1. Product Identification**

MSDS Name: Ribonucleic acid (RNA)

Synonyms: RNA

CAS No.: 63231-63-0

Product Coad: R0174900010

Molecular Weight: 479.02

Chemical Formula: C₂₈H₃₁N₂O₃Cl

2. Composition/Information on Ingredients

Ingredient	CAS No	%	EINECS#
: Ribonucleic acid (RNA)	63231-63-0		unlisted

3. Hazards Identification

Emergency Overview : Not available

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled. Chronic:

4. First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

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MATERIAL SAFETY DATA SHEET (MSDS)**QUINALDIC ACID (FOR SYNTHESIS)****7. Handling and Storage**

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage: Store in a cool, dry place. Store in a tightly closed container.

8. Exposure Controls/Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 63231-63-0:

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. Physical and Chemical Properties

Physical State: Powder

Color: white to beige

Odor: Not available

pH: Not available

Boiling Point: Not available

Solubility in water: Not available

10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide. Hazardous Polymerization Hazardous Polymerization

11. Toxicological Information

RTECS#: CAS# 63231-63-0: RF0772520

LD50/LC50: RTECS: Not available.

Carcinogenicity: Ribonucleic acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated. S

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MATERIAL SAFETY DATA SHEET (MSDS)**QUINALDIC ACID (FOR SYNTHESIS)****12. Ecological Information**

Environmental Fate: No information found. **Environmental Toxicity:** No information found.

13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

14. Transport Information

Not regulated.

15. Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases: Safety Phrases: S 24/25 Avoid contact with skin and eyes. WGK (Water Danger/Protection) CAS# 63231-63-0: Not available

Canada : CAS# 63231-63-0 is listed on Canada's NDSL List US Federal TSCA CAS# 63231-63-0 is listed on the TSCA Inventory

16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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