

# MATERIAL SAFETY DATA SHEET

## 1. Identification of The Substance/Mixture and of The Company/Undertaking

### Identification of the substance/preparation

Product name RNA

### Company/undertaking identification

VectorBuilder Inc.  
1010 W 35th Street, Suite 515  
Chicago, IL 60609, USA  
Tel: (800) 517-2189  
(9:00 am to 5:30 pm CST)

### Emergency telephone number

Tel: (800) 517-2189  
(9:00 am to 5:30 pm CST)

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

## 2. Hazards Identification

### Hazard classification

None

### Signal word

Not hazardous

### Health hazards

Not hazardous

### Physical hazards

Not hazardous

### HMIS

Health	0
Flammability	0
Reactivity	0

### 3. Composition/Information on Ingredients

#### Hazardous/non-hazardous components

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### 4. First Aid Measures

<b>Skin contact</b>	Rinse with plenty of water. If symptoms arise, call a physician.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
<b>Notes to physician</b>	Treat symptomatically.

### 5. Fire-fighting Measures

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

### 6. Accidental Release Measures

<b>Personal precautions</b>	Use personal protective equipment.
<b>Methods for cleaning up</b>	Take up mechanically and collect in suitable container for disposal.

### 7. Handling and Storage

<b>Handling</b>	Handle as a potentially biohazardous material under Biosafety Level 1 containment. Avoid contact with eyes and skin. Wear personal protective equipment when handling.
<b>Storage</b>	Store at -80°C. Keep in properly labeled containers.

### 8. Exposure Controls/Personal Protection

#### Exposure limits

We are not aware of any national exposure limit.

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.

### **Personal protective equipment**

<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Hand protection</b>	Wash hand after use. Gloves recommended.
<b>Eye protection</b>	Safety glasses or goggles recommended.
<b>Skin and body protection</b>	Lightweight protective clothing.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

### **Environmental exposure controls**

Prevent product from entering drains.

## 9. Physical and Chemical Properties

### **General information**

<b>Form</b>	Liquid	<b>Evaporation rate</b>	No information available
<b>pH value</b>	6.0	<b>Vapor pressure</b>	No information available
<b>Appearance</b>	No information available	<b>Vapor density</b>	No information available
<b>Odor</b>	No information available	<b>Partition coefficient</b>	No information available
<b>Odor threshold</b>	No information available	<b>Decomposition temperature</b>	No information available
<b>Oxidizing properties</b>	No information available	<b>Viscosity</b>	No information available
<b>Water solubility</b>	Soluble		
<b>Boiling point/range</b>	°C no data available	°F no data available	
<b>Melting point/range</b>	°C no data available	°F no data available	
<b>Flash point</b>	°C no data available	°F no data available	
<b>Autoignition</b>	°C no data available	°F no data available	

## 10. Stability and Reactivity

<b>Stability</b>	Stable under recommended handling and storage conditions.
<b>Materials to avoid</b>	No data available
<b>Hazardous decomposition products</b>	No data available
<b>Polymerization</b>	Hazardous polymerization does not occur.
<b>Reactivity</b>	No data available
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported.

## 11. Toxicological Information

### **Acute toxicity**

Not hazardous

### **Principle routes of exposure/potential health effects**

<b>Eyes</b>	May cause eye irritation with susceptible persons.
<b>Skin</b>	May cause skin irritation in susceptible persons.
<b>Inhalation</b>	May be harmful if inhaled.
<b>Ingestion</b>	May be harmful if swallowed.

**Specific effects**

<b>Carcinogenic effects</b>	None
<b>Mutagenic effects</b>	None
<b>Reproductive toxicity</b>	None
<b>Sensitization</b>	None

**Target organ effects**

No known effects under normal use conditions.

## 12. Ecological Information

<b>Ecotoxicity effects</b>	No data available
<b>Mobility</b>	No data available
<b>Biodegradation</b>	Inherently biodegradable
<b>Bioaccumulation</b>	Does not bioaccumulate

## 13. Disposal Considerations

Dispose of contents/containers in accordance with local regulations.

## 14. Transport Information

**IATA**

<b>Proper shipping name</b>	Not classified as dangerous in the meaning of transport regulations.
<b>Hazard Class</b>	No information available
<b>Subsidiary Class</b>	No information available
<b>Packing group</b>	No information available
<b>UN-No</b>	No information available

## 15. Regulatory Information

**US Federal regulations****SARA 313**

This product is not regulated by SARA.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain HAPs.

**US State regulations****California Proposition 65**

This product does not contain chemicals listed under Proposition 65.

**WHMIS hazard class**

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**Reason for Revision**                      MSDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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**End of Safety Data Sheet**