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## SECTION 1: Identification

### GHS Product identifier

|                 |                                |
|-----------------|--------------------------------|
| Product name(s) | Cre Recombinase mRNA, Cre mRNA |
| Product number  | VRN-CRE                        |
| Cas number      | Not applicable                 |

### Supplier's details

|         |   |
|---------|---|
| Name    | Vernal Biosciences                                |
| Address | 261 Mountain View Dr.<br>Colchester, VT 05446 USA |

|                |                 |
|----------------|-----------------|
| Telephone      | (802) 440-1869  |
| Email address: | info@vernal.bio |

### Emergency phone number

802-440-1869 (8 am - 5 pm EST)

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## SECTION 2: Hazard identification

### Classification of the substance or mixture

Not a dangerous substance or mixture.

### GHS classification in accordance with: OSHA (29 CFR 1910.1200)

Not a dangerous substance or mixture.

### GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

### Hazard statement(s)

No GHS hazards.

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## SECTION 3: Composition/information on ingredients

### Mixtures

No ingredients are hazardous according to OSHA criteria. No specific hazard.

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

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|                         |   |
|-------------------------|---|
| General advice          | Consult a physician. Show this safety data sheet to the doctor in attendance.                                   |
| If inhaled              | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | Wash off with soap and plenty of water. Consult a physician.  |
| In case of eye contact  | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.                          |
| If swallowed            | Rinse mouth with water. Consult a physician.  |

### **Most important symptoms/effects, acute and delayed**

No data available.

### **Indication of immediate medical attention and special treatment needed, if necessary**

No data available.

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## **SECTION 5: Fire-fighting measures**

### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Specific hazards arising from the chemical**

No data available.

### **Special protective actions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

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## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

### **Environmental precautions**

No data available.

### **Methods and materials for containment and cleaning up**

Contain spillage, disposal according to local regulations (see section 13).

### **Reference to other sections**

For disposal see section 13.

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## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.  
For precautions see section 2.2

### **Conditions for safe storage, including any incompatibilities**

Keep container tightly closed.

### **Specific end use(s)**

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Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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### SECTION 8: Exposure controls/personal protection

#### Control parameters

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

#### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Wash and dry hands.

#### Body protection

Wear suitable laboratory appropriate protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Environmental exposure controls

Prevent further leakage or spillage if safe to do so.

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### SECTION 9: Physical and chemical properties

|  |                    |
|--|--------------------|
| Physical state                               | Liquid             |
| Appearance (physical state, color, etc.)     | Colorless          |
| Odor   | No data available. |
| Odor threshold                               | No data available. |
| pH   | No data available. |
| Melting point/freezing point                 | No data available. |
| Initial boiling point and boiling range      | No data available. |
| Flash point                                  | No data available. |
| Evaporation rate                             | No data available. |
| Flammability (solid, gas)                    | No data available. |
| Upper/lower flammability or explosive limits | No data available. |
| Vapor pressure                               | No data available. |
| Vapor density                                | No data available. |
| Relative density                             | No data available. |
| Solubility(ies)                              | No data available. |
| Partition coefficient: n-octanol/water       | No data available. |
| Auto-ignition temperature                    | No data available. |
| Decomposition temperature                    | No data available. |
| Viscosity                                    | No data available. |

#### Additional properties

|                      |                    |
|----------------------|--------------------|
| Explosive properties | No data available. |
| Oxidizing properties | No data available. |

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### SECTION 10: Stability and reactivity

#### Reactivity

No data available.

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### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available.

### Conditions to avoid

Strong acids, Strong bases

### Incompatible materials

No data available.

### Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

No data available.

|                                    |                    |
|------------------------------------|--------------------|
| Skin corrosion/Irritation:         | No data available. |
| Serious eye damage/Eye Irritation: | No data available. |
| Skin or respiratory sensation:     | No data available. |
| Germ cell mutagenicity:            | No data available. |
| Carcinogenicity:                   | No data available. |
| Reproductive toxicity:             | No data available. |
| Developmental toxicity:            | No data available. |
| Teratogenicity:                    | No data available. |
| STOT – Single exposure:            | No data available. |
| STOT – repeated exposure:          | No data available. |
| Target organs:                     | No data available. |
| Chronic toxicity:                  | No data available. |
| Subchronic toxicity:               | No data available. |
| Neurological effects:              | No data available. |
| Aspiration Hazard:                 | No data available. |
| Other adverse effects:             | No data available. |

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## SECTION 12: Ecological information

### Toxicity

No data available.

### Persistence and degradability

No data available.

### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

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### Results of PBT and vPvB assessment

No data available.

### Other adverse effects

No data available.

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Contact a licensed professional waste disposal service to dispose of this material.

#### Packaging disposal

Dispose of as unused product.

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## SECTION 14: Transport information

### DOT (US)

This product is considered to be non-hazardous for transport.

### IMDG

UN Number: No data available.

Class: No data available.

Packing Group: No data available.

EMS Number: No data available.

Proper Shipping Name: No data available.

### IATA

UN Number: No data available.

Class: No data available.

Packing Group: No data available.

Proper Shipping Name: No data available.

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### California Prop. 65 Components

This material does not contain any chemicals known to the state of California to cause cancer, birth defects, or any other reproductive harm.

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### New Jersey Right To Know Components

No components are subject to the New Jersey Right to Know Act.

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### **Pennsylvania Right To Know Components**

No components are subject to the Pennsylvania Right to Know Act.

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## **SECTION 16: Other information**

### **Hazardous Material Information System (USA)**

Health Hazard: 0

Flammability: 0

Physical Hazard: 0

Chronic Health Hazard: 0

### **National Fire Protection Association (USA)**

Health Hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

### **Other comments**

**To the best of our knowledge, the information contained herein is accurate. Neither the supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**