

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2020/2008

Revision Date 06-Dec-2023 Revision Number 4

EGHS / English

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s) CAS11195, CAS11196, CAS11859, CAS11860, CASXXXXX, PNPXXXXX, HD-

BIOPR12365, KIT-TNT-XX-XX

Product Name mRNA Product in Aqueous Solution

Chemical name

Reach Number A registration number is not required for this substance.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use For research use only.

Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Supplier Name Dharmacon, Inc.,

Revvity, Inc.

Supplier Address 2650 Crescent Drive Suite 100

Lafayette, CO 80026

Supplier Phone Number Tel: 303-604-9499

Fax: 303-604-9680

Supplier Email technical@horizondiscovery.com

For further information, please contact.

1.4. Emergency telephone number

Emergency telephone Chemtrec International 1-703-741-5970

Emergency telephone §45 - (EC)1272/2008	
Europe	112

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of substance according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture.

2.2. Label elements

Label elements according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture.

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1 Substances

This product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical name	EC No	CAS-No	Weight-%	Classification according	REACH Reg.
				to Regulation (EC) No.	No.
				1272/2008 [CLP]	
RNA	-	63231-63-0	1	No data available	No data
					available
Aqueous Solution**	-	-	99	No data available	No data
					available

^{**}All components need not be disclosed according to applicable regulations due to non-hazardous classification status.

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS-No	SVHC candidates
RNA	63231-63-0	-

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions

see a physician.

Eye contactRinse thoroughly with plenty of water for at least 15 minutes, lifting lower and

upper eyelids. Consult a physician.

Ingestion Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

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Symptoms No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required.

Avoid generation of dust.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Should not be released into the environment. See Section 12 for additional

Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Vacuum or sweep material and place in a disposal container. Avoid generation of

dust.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protection equipment. Avoid generation

of dust.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities.

Storage Conditions Keep container tightly closed in a dry place. Keep at -80°C.

7.3. Specific end use(s)

Risk Management Methods

(RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with

occupational exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Engineering Controls

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand Protection Protective gloves.

Skin and body protection Wear suitable protective clothing.

Environmental exposure

controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

ColourData not relevant for safe useOdourData not relevant for safe use

<u>Property</u> <u>Values</u> <u>Remarks Method</u>

Melting / freezing point Data not relevant for safe use None known

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Boiling point / boiling range Flammability Lower and Upper Exposure Limit Flash Point	Data not relevant for safe use	None known None known None known None known
Auto-ignition Temperature	Data not relevant for safe use	None known
Flammability Limit in Air	Data not relevant for safe use	None known
Decomposition Temperature	Data not relevant for safe use	None known
pH	Data not relevant for safe use	None known
Kinematic viscosity	Data not relevant for safe use	None known
Solubility	Data not relevant for safe use	None known
Partition coefficient: n-octanol/water	Data not relevant for safe use	None known
Vapour pressure	Data not relevant for safe use	None known
Density / Relative Density	Data not relevant for safe use	None known
Relative vapour density	Data not relevant for safe use	None known
Decomposition temperature	Data not relevant for safe use	None known
Particle characteristics	Data not relevant for safe use	None known
Melting / freezing point	Data not relevant for safe use	None known
Boiling point / boiling range	Data not relevant for safe use	None known

9.2. Other information

Softening Point

Molecular Weight

VOC Content (%)

Liquid Density

Bulk Density

Particle Size

Particle Size

Data not relevant for safe use

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Possibility of Hazardous

Reactions

None under normal processing.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1. Information on toxicological effects

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture.

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Information on toxicological effects

Symptoms No information available.

Numerical measures of toxicity

Acute Toxicity Shall not be classified as acutely toxic.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.
Serious eye damage/eye No information available.

irritation

Respiratory or skin sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.
Reproductive Toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

11.2. Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors.

SECTION 12: Ecological information

12.1. Ecotoxicity

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No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Endocrine disrupting properties

This product does not contain known or suspected endocrine disruptors.

12.7 Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance

with environmental legislation.

Contaminated packaging No information available.

SECTION 14: Transport information

IMDG

14.1 UN Number UN1845

14.2 Proper Shipping Name Carbon Dioxide, Solid

14.3 Hazard Class 9 **14.4 Packing group** III

14.5 Marine Pollutant Not applicable

14.6 Special Provisions None

14.7 Transport in bulk Not applicable

according to Annex II of MARPOL and the IBC Code

RID

14.1 UN-No.
14.2 Proper Shipping Name
14.3 Hazard Class
Not regulated
Not regulated
Not regulated

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14.4 Packing GroupNot regulated14.5 Environmental hazardNot applicable

14.6 Special Provisions None

ADR

14.1UN-No.Not regulated14.2Proper Shipping NameNot regulated14.3Hazard ClassNot regulated14.4Packing GroupNot regulated14.5Environmental hazardNot applicable

14.6 Special Provisions None

IATA

14.1 UN Number UN1845

14.2 Proper Shipping Name Carbon Dioxide, Solid

14.3 Hazard Class 9
Subsidiary class III

14.4 Packing group14.5 Environmental hazardNot regulatedNot applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Persistent Organic Pollutants

Not applicable.

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

International Inventories

TSCA Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. DSL/NDSL **EINECS/ELINCS** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **ENCS IECSC** Contact supplier for inventory compliance status. **KECL** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. **PICCS** Contact supplier for inventory compliance status. **AICS**

Legend

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TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value - Skin designation

Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date 06-Dec-2023

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2020/2008.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Data for Regulator	v Rules
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