

Safety Data Sheet

Issue date 04/01/2017 Reviewed on 06/11/2023

SECTION 1: IDENTIFICATION

Product code: 10-10/20, 10-30, 10-40/50, 10-60, 20-10/20, 20-40/50, 30-10/20, 40-10/20,

80-10/20, 80-30, 80-40/50, 80-60, 90-10/20

Product name: All-Fect, All-Fect In Vivo, All-Fect Kit, Prime-Fect, Prime-Fect In Vivo Kit,

Leu-Fect A, Leu-Fect B, mRNA-Fect In Vivo, mRNA-Fect Kit, mRNA-Fect In

Vivo Kit, CRISP-Fect

Packing: 1.0 or 2.0 mL/vial

Product Application: Transfection Reagent **Product Description**: Laboratory Chemical

Identified uses: Use only for research, not for diagnostic procedures

Emergency: 1 - 780 - 270-5267

Manufacture/Supplier RJH Biosciences Inc.

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SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: The product is classified and labeled based on the Globally Harmonized System (GHS)

GHS Label elements, including precautionary statements:

Pictogram

Signal Word

Hazard Statements

Physical/ Health Hazard

H302 + H312, H341, H315 + H320

Causes skin and eye irritation, harmful if absorbed through

skin or swallowed

Precautionary Statements

P260, P280, P285, P264 **Prevention**

Wear protective gloves/protective clothing/eye protection/face protection. Wash

thoroughly after handling

Specific effects

Carcinogenic effects No data available No data available **Mutagenic effects**

Sensitization **Target Organ Effects** No data available No known effects

0

Reproductive toxicity

No data available

Hazardous Materials Identification System (HMIS)

Health

Flammability Reactivity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ultra-pure DNAse/RNAse free distilled water (100%) Non-hazardous component **Chemical characterization** Polymer solution in non-hazardous components, water

The composition of the polymers is considered proprietary, and it is withheld in accordance with Additional information

the provisions of Trade Secrets

SECTION 4: FIRST AID MEASURES

Show this safety data sheet to the doctor in attendance.

IF ON SKIN: Wash with soap and water, rinse thoroughly with water,

IF IN EYES, Separate eyelids with fingertips, remove contact lenses if worn, Rinse If on skin/Eyes P302+P352, P305B

thoroughly under running water.

May be harmful on inhalation. Not expected to be an inhalation hazard, keep comfortable Inhalation P304+P340, P310

breathing, Consult a physician if necessary.

May be harmful if swallowed. Not expected to present a significant ingestion under P301+P330+P331 **Ingestion**

anticipated conditions. Rinse mouth, provide fresh air If you feel unwell, seek medical

advice

Symptoms and effects No further relevant information available







SECTION 5: FIRE FIGHTER MEASURES

Extinguishing media Suitable extinguishing media: Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing

agents are given.

Special hazards arising from

Carbon oxides

the substance or mixture

Nitrogen oxides (NOx) Hydrogen chloride gas

Combustible.

Development of hazardous combustion gases or vapor possible in the event of fire.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire

extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEADURES

Personal precautions, protective equipment, and emergency procedures: Advice for non-emergency personnel: Avoid inhalation of dust. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Cover drains. Collect, bind, and pump off spills. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dust.

SECTION 7: HANDLING AND STORAGE

Storage P405

Precautions for safe handling For precautions see section 2.

Conditions for safe storage, Storage conditions: Tightly closed. Dry.

including any incompatibilities Storage stability: Recommended storage temperature -20 to 8°C, Hygroscopic in nature.

Storage class: Storage class (TRGS 510), Non-Combustible Solids

Specific end use(s) Apart from the uses mentioned in section 1 no other specific uses are stipulated

SECTION 8: TOXICOLOGICAL INFORMATION

This product does not contain any substances considered to be hazardous to health.

Acute Toxicity No toxicology information is available. Carcinogenic effects No data available. May cause eye irritation Mutagenic effects No data available. **Eves** May cause skin irritation Reproductive toxicity No data available. Skin May be harmful by inhalation. Sensitization No data available. inhalation

Ingestion May be harmful if swallowed.

SECTION 9: EXPOSURE CONTROL/PERSONAL PROTECTION

Ensure adequate ventilation, especially in confined areas

each laboratory where this material is used.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Impervious gloves

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

Skin and Body Protection Lightweight protective clothing

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

Environmental exposure controls No special environmental precautions required

SECTION 10: PHYSICAL AND CHEMICAL PROPERTIES

FormLiquidOxidizing propertiesNo data availableAppearanceTransparentUpper explosion limitNo data availableOdorNoneLower explosion limitNo data available



Odor Threshold No data available **Partition coefficient:** Boiling point / boiling range No data available n-octanol/water No data available Melting point / melting range No data available Vapor Pressure No data available flash point No data available vapor density No data available **Autoignition Temperature** No data available Viscosity No data available

Evaporation rate No data available **pH value** 6 to 8

Flammability (solid, gas) No data available

SECTION 11: STABILITY AND REACTIVITY

Stability Stable under normal conditions

Materials to avoid No dangerous reaction known under conditions of normal use

Possibility of hazardous reactionsHazardous reaction has not been reportedHazardous decomposition productsNone under normal use conditionsPolymerizationHazardous polymerization does not occur

Conditions to avoid None under normal processing

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Contains no substances known to be hazardous to the environment

Mobility No information available

Biodegradation No information available Bioaccumulation No information available

SECTION 13: TRANSPORT INFORMATION

TDG Not regulated as a dangerous good

IMDG Not dangerous goodsIATA Not dangerous goods

Further information Not classified as dangerous in the meaning of transport regulations.

SECTION 14: DISPOSAL CONSIDERATION

Disposal P501

Waste treatment methods: Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 15: REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

SECTION 16: OTHER INFORMATION

Reason for revision SDS sections updated.

For Research Use Only, not for use in diagnostic procedures.

"This information was acquired through search or investigation. This is only a guideline for the use of the materials, not all-inclusive. It is recommended to use these materials with caution since there might be unknown hazards incident. 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. THIS INFORMATION DOES NOT CONTITUTE ANY WARRANTY, EXPRESSED OR IMPLIED.

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