

Safety Data Sheet

Issue date 04/01/2017

Reviewed on 11/10/2024.

SECTION 1: IDENTIFICATION

Product Code	10-10/20/40/50/60, 20-10/20, 30-10/20, 40-10/20, 50-10/20, 60-10/20/30, 80-10/11/20/21/40/50/60, 90-10/20	Manufacture/Supplier RJH Biosciences Inc. 10230 Jasper Ave Suite 4000 Edmonton, AB, T5J 4P6, CANADA www.rjhbiosciences.com Phone: (780) 270-5267 Emergency: 01-780-270-5267
Product Name	All-Fect, ALL-Fect Kit, Prime-Fect, Leu-Fect A, Leu-Fect B, Trans-Booster, In Vivo RNA-Fect, mRNA-Fect, mRNA-Fect ULTRA, mRNA-Fect Kit, CRISP-Fect	
Packing Concentration	0.75, 1.0, 1.5, 2.0 mL/vial.	
Application	0.4 to 5 mg/mL, in Ultra-pure DNase/RNase free distilled water (100%).	
Description	Transfection of nucleic acids.	
Identified Uses	Laboratory chemical. For research use only, not for use in human.	

SECTION 2: HAZARDS IDENTIFICATION

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

Pictogram	NON		
Signal Word	NON		
Physical / Health Hazard Prevention	NON		
Carcinogenic effects	No data available	Sensitization	No data available
Mutagenic effects	No data available	Target Organ Effects	No known effects
Reproductive toxicity	No data available		
Hazardous Materials Identification System (HMIS)			
Health	0	Flammability	0
		Reactivity	0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Non-hazardous component	Ultra-pure DNase/RNase free distilled water (100%)
Chemical characterization	Polymer solution in non-hazardous components, water. The product contains no substances which at their given concentration are hazardous to health. We recommend handling all chemicals with caution.
Additional information	The composition of the polymers is considered proprietary, and it is withheld in accordance with the provisions of Trade Secrets

SECTION 4: FIRST AID MEASURES

If on skin/Eyes	IF ON SKIN: Wash with soap and water, rinse thoroughly with water. Immediate medical attention is not required. IF IN EYES, Separate eyelids with fingertips, remove contact lenses if worn, Rinse thoroughly under running water.
Inhalation	May be harmful on inhalation. Not expected to be an inhalation hazard, keep comfortable breathing, Consult a physician if necessary.
Ingestion	May be harmful if swallowed. Not expected to present a significant ingestion under anticipated conditions. Rinse mouth, provide fresh air If you feel unwell, seek medical advice
Symptoms and effects	No further relevant information available
Notes to physicians	Treat symptomatically

SECTION 5: FIRE FIGHTER MEASURES

Extinguishing media	Suitable extinguishing media: Water Foam Carbon dioxide (CO ₂) Dry powder Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture	Not Known

Protective equipment and precautions for firefighters

Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEADURES

Personal precautions, protective equipment, and emergency procedures: Ensure adequate ventilation, always wear recommended Personal Protective Equipment, Use personal protection equipment.

Environmental precautions: No special environmental precautions required.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Use personal protective equipment as required. No special handling advice are necessary.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep in a dry, cool, and well-ventilated place. Keep in properly labeled containers.

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

Storage class: 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.

Eyes May cause eye irritation

Mutagenic effects No data available.

Skin May cause skin irritation

Reproductive toxicity No data available.

inhalation May be harmful by inhalation.

Sensitization No data available.

Ingestion May be harmful if swallowed.

SECTION 9: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering measures

Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

It depends on the user institution's risk assessment and are specific to the risk assessment for 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

Form

Liquid

Oxidizing properties

No data available

Appearance

Transparent

Upper explosion limit

No data available

Odor

None

Lower explosion limit

No data available

Odor Threshold

No data available

Partition coefficient:

No data available

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 reactions

Hazardous reaction has not been reported

Hazardous decomposition products

None under normal use conditions

Polymerization

Hazardous 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

Not regulated in the meaning of transport regulations

TDG	Not regulated as a dangerous good
IMDG	Not dangerous goods
IATA	Not dangerous goods
Further information	Not classified as dangerous in the meaning of transport regulations.

SECTION 14: DISPOSAL CONSIDERATION

Waste treatment methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of according to approved disposal technique.

Disposal of this product: its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

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.

The End