

SAFETY DATA SHEET

Creationdate: June 12, 2020

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product : -LAMP Dry Premix-
Cassava Begomovirus (Asian strain) Universal Detection Kit
Kit Components ①C.B.U. Detection Dry Reagent
②C.B.U. Reagent Dissolve Solution
③C.B.U. Positive Control
④C.B.U. Control Dissolve Solution
⑤Mineral Oil

Company Name : Nippon Gene Material Co.,Ltd.
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2. HAZARDS IDENTIFICATION

⑤Mineral Oil:
GHS Classification None
Symbol No Symbol
Signal word No Signal word
Physical hazards Low hazard potential when handled properly
Health hazards Low hazard potential when handled properly
Environmental hazards Low hazard potential when handled properly

3. COMPOSITION / INFORMATION ON INGREDIENTS

①C.B.U. Detection Dry Reagent

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Oligonucleotide	Nondisclosure	Nondisclosure	Nondisclosure	None
Manganese(II) Chloride Tetrahydrate	< 0.1%(w/v)	MnCl ₂ ·4H ₂ O	13446-34-9	Manganese(II) Chloride Tetrahydrate
Trade secret	Nondisclosure	Nondisclosure	Nondisclosure	None

Concentration below the cut-off value for Manganese(II) Chloride Tetrahydrate: < 0.1%(w/v)

②C.B.U. Reagent Dissolve Solution

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Trade secret	Nondisclosure	Nondisclosure	Nondisclosure	None

③C.B.U. Positive Control

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Positive Control DNA	Nondisclosure	Nondisclosure	Nondisclosure	None
Trade secret	Nondisclosure	Nondisclosure	Nondisclosure	None

④C.B.U. Control Dissolve Solution

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Trade secret	Nondisclosure	Nondisclosure	Nondisclosure	None

⑤Mineral Oil

Single Product/Mixture Classification: Single Product

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Mineral Oil	-	CmHn	8042-47-5	Mineral Oil

4. FIRST AID MEASURES

Necessary measures against various exposure types

- Inhalation : Remove from exposure area to fresh air immediately. Get medical attention if adverse health effects persist or are severe.
- Skin Contact : Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains. Get medical attention if adverse health effects persist or are severe.
- Eye Contact : Wash eyes immediately with large amounts of water for at least 15 minutes. Get medical attention if adverse health effects persist or are severe.
- Ingestion : Wash mouth out with water. Get medical attention if adverse health effects persist or are severe.

Most important symptoms/effects, acute and delayed

: Not available

5. FIRE FIGHTING MEASURES

Extinguishing Media : Powder, chemical foam, carbon dioxide, dry sand, water spray

Banned Extinguishing Media : None

Specific Hazards : In case of fire, toxic and corrosive vapors or fumes may be formed.
Wear suitable protection to avoid inhalation.

Special Fire Fighting Procedures

- : Use media suitable to extinguish source of fire.
Extinguish the fire from the windward side of the fire.
Perform the proper operation to prevent dispersion of material that influences environmental conditions.

Protective Measures in Fire : The fire fighting should be done from the windward side to avoid inhalation of toxic gas, with suitable respiratory protective device, if necessary

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Personal Protection, and Emergency Equipment

- : Wear appropriate personal protective equipment. Use caution, as spill area may be slippery.

Environmental Precautions : Prevent further leakage or spillage. Do not contaminate any lakes, streams, ponds, groundwater or soil. Prevent dispersion of materials.

Methods and materials for containment and cleaning up

- : Clean spill area completely with floorcloth or the like.
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7. HANDLING AND STORAGE

Handling

Technical Measures : Wear proper equipment and take measures according to [8. Exposure control / Personal protection].

Local exhaust ventilation system/general ventilation : Ventilate according to [8. Exposure control / Personal protection].

Precaution : Do not leak, overflow and scatter.
Seal tightly after use.
Wash hands thoroughly after handling.
Handle in a specially designated area where no eating or drinking is allowed.
Avoid nonessential personnel from entering the handling area.
Handle container with enough care not to damage container.
Wear proper protective clothing and shoes.

Storage

Storage Condition : Store at room temperature

Technical Measures : None

Incompatible Materials for Storage : See 10. STABILITY AND REACTIVITY

Material of Container : Polyethylene, polypropylene

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Biological limit values

ACGIH : Not established
 JSOH : Not established

Engineering Measures : Provide local exhaust ventilation if generating vapor, dust, or mist.

Personal protective equipment

Respiratory protection : Protective mask
 Hand protection : Suitable impervious gloves.
 Eye protection : Suitable safety glasses (goggles)
 Skin protection : Protective clothing (long sleeved)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, Colour etc)

: ①③: dry pellet ②④: Colorless liquid ⑤: Colorless oily liquid

Odor : **Odorless**

pH : Not available

Melting point / freezing point : Not available

Initial boiling point and boiling range : Not available

⑤:218-800°C

Flash point : Not available

Upper/lower flammability or explosion limits : Not available

Vapour pressure : Not available

Relative density : Not available

Solubility : Miscible in water

⑤:Insoluble

Partition coefficient (n-octanol/water) : Not available

Autoignition temperature : Not available

Decomposition temperature : Not available

Kinetic viscosity : Not available

10. STABILITY AND REACTIVITY

Reactivity : Not available

Chemical stability : Stable under proper storage condition and handling

Possibility of hazardous reactions : Not available

Conditions to avoid : light, Heat

Incompatibilities : Not available

Hazardous decomposition products : Carbon monoxide, carbon dioxide

11. TOXICOLOGICAL INFORMATION

⑤Mineral Oil:

Acute Toxicity : Not available

Skin Corrosion / Irritation : No irritant effect

Not classified

Eye Damage / Irritation : Not irritating

Not classified

Respiratory or Skin Sensitization : No sensitizing effects known.

Not classified

Germ Cell Mutagenicity : Not available

Carcinogenicity : Not available

Toxic to Reproduction : Not available

Specific Target Organ Systemic Toxicity/Single Exposure : Not available

Specific Target Organ Systemic Toxicity/Repeated Exposure : Not available

Aspiration Hazard : Not available

12. ECOLOGICAL INFORMATION

⑤Mineral Oil:

Toxicity : Not available
Persistence / Degradability : Not available
Bioaccumulative potential : Not available
Mobility in soil : Not available
Hazard to the ozone layer : Not available
Other hazard information : Not available

13. DISPOSAL CONSIDERATIONS

Hazardous Waste : Waste must be disposed of in accordance with federal, state, and local regulations.
Contact a licensed professional waste disposal service to dispose of this material if the above procedure is not operatable.

Contaminated Container and Packaging : Retaining product residue must be completely removed before dispose.

14. TRANSPORT INFORMATION

Basic classification information for the transporting/shipment

UN Number : Not applicable
Marine Pollutant : Not applicable

International regulations

Land : Not Controlled under ADR/RID's regulations.
Sea : Not Controlled under IMDG's regulations.
Air : Not Controlled under IATA's regulations.

Special safety measures : Handle container with enough care not to damage container
Do not drop container or give shock/impact and avoid any damage onto container
Keep container upright and properly tighten not to fall down

15. REGULATORY INFORMATION

Follow all the relevant local, state, and federal laws and regulations in your country.

16. OTHER INFORMATION

· Reference

NITE Chemical Risk Information Platform (NITE-CHRIP)
https://www.nite.go.jp/en/chem/chrip/chrip_search/systemTop
SDS supplied by the supplier, etc.

The above information is believed to be correct to be the best of our knowledge and information but do not purport to be all inclusive and shall be used only as a guide. This product is intended to be used by expert persons having chemical knowledge and skill, at their own discretion and we shall not be held liable for any damage resulting from handling or from contact with the above material.