

SAFETY DATA SHEET

Creation date: July 23, 2019

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product : GenCheck® DNA Extraction kit [Type S/F]
 Code No. : GC002-1N
 Kit components: ①Lysis Solution M
 ②Lysis Solution S
 ③Purification Solution
 ④Wash Solution 1
 ⑤Wash Solution 2
 ⑥TE (pH8.0)
 ⑦RNase A (100mg/ml)
 ⑧Beads Tube
 ⑨Spin Column

Company Name : FASMAC CO.,LTD
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2. HAZARDS IDENTIFICATION

②Lysis Solution 20S (sodium dodecyl sulfate):

GHS Classification: Acute toxicity (dermal) : Category 3
 Skin corrosion/irritation : Category 2
 Eye damage/irritation : Category 1
 Specific target organ systemic toxicity/single exposure : Category 1 (The CNS)
 Specific target organ systemic toxicity/repeated exposure : Category 2 (Liver)
 Hazardous to the aquatic environment -AcuteHazard : Category 2

Hazard Symbols:



Danger

Hazards Identification: H312 Harmful in contact with skin
 H315 Causes skin irritation
 H318 Causes serious eye damage
 H370 Causes damage to organs
 H373 May cause damage to organs through prolonged or repeated exposure
 H401 Toxic to aquatic life

Precautions :

[Prevention]

P260 Do not breathe dust/fume/gas/mist/vapours/spray
 P264 Wash arms, hands and face thoroughly after handling
 P270 Do not eat, drink or smoke when using this product
 P273 Avoid release to the environment

[Response]

P280 Wear protective gloves/protective clothing/eye protection/face protection
 P310 IF IN EYES: Immediately call a POISON CENTER or doctor/physician.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell
 P302+P352 IF ON SKIN: Wash with soap and water
 P308+P311 IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician
 P332+P313 If skin irritation occurs: Get medical advice/attention
 P362+P364 Take off contaminated clothing and wash it before reuse
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses if present and easy to do – continue rinsing

[Storage]

P405 Store locked up

[Disposal]

P501 Dispose of contents and container in accordance with regulation

③Purification Solution (hexadecyltrimethylammonium bromide Mixture):

GHS Classification:	Skin corrosion/irritation	: Category 3
	Eye damage/irritation	: Category 2A
	Toxic to reproduction	: Category 2
	Specific target organ systemic toxicity/single exposure (heart, the haemal system)	: Category 2
	Hazardous to the aquatic environment –Acute Hazard	: Category 1
	Hazardous to the aquatic environment –Chronic Hazard	: Category 1

Hazard Symbols:**Warning**

Hazards Identification :	H316 Causes mild skin irritation
	H319 Causes serious eye irritation
	H361 Suspected of damaging fertility or the unborn child
	H371 May cause damage to organs (heart, the haemal system)
	H400 Very toxic to aquatic life
	H410 Very toxic to aquatic life with long lasting effects

Precautions :

[Prevention]

P201 Obtain special instructions before use
 P202 Do not handle until all safety precautions have been read and understood
 P260 Do not breathe dust/fume/gas/mist/vapours/spray
 P264 Wash arms, hands and face thoroughly after handling
 P270 Do not eat, drink or smoke when using this product
 P273 Avoid release to the environment

[Response]

P280 Wear protective gloves/protective clothing/eye protection/face protection
 P391 Collect spillage
 P308+P311 If exposed or concerned: Call a POISON CENTER or doctor/physician
 P332+P313 If skin irritation occurs: Get medical advice/attention
 P337+P313 If eye irritation persists get medical advice/attention
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

[Storage]

Remove contact lenses if present and easy to do – continue rinsing

[Disposal]

P405 Store locked up

P501 Dispose of contents and container in accordance with regulation

④Wash Solution 1:

GHS Classification:	Acute toxicity (oral)	: Category 4
	Skin corrosion/irritation	: Category 2
	Eye damage/irritation	: Category 2A

Hazard Symbols:**Warning**

Hazards Identification:	H302 Harmful if swallowed
	H315 Causes skin irritation
	H319 Causes eye irritation

Precautions :

[Prevention]

P264 Wash arms, hands and face thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product

[Response]

P280 Wear protective gloves/protective clothing/eye protection/face protection
 P330 IF SWALLOWED: Rinse mouth
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P302+P352 IF ON SKIN: Wash with soap and water

P332+P313 If skin irritation occurs: Get medical advice/attention

P337+P313 If eye irritation persists get medical advice/attention

P362+P364 Take off contaminated clothing and wash it before reuse

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do – continue rinsing

[Disposal]

P501 Dispose of contents and container in accordance with regulation

⑤ Wash Solution 2 (ethanol):

GHS Classification:	Highly flammable liquid and vapour	: Category 2
	Eye damage/irritation	: Category 2B
	Carcinogenicity	: Category 1A
	Toxic to Reproduction	: Category 1A
	Specific target organ systemic toxicity/Single exposure (Respiratory system, Anesthetic action)	: Category 3
	Specific target organ systemic toxicity/Repeated exposure	: Category 1 (Liver) : Category 2 (The CNS)

Hazard Symbols:**Danger**

Hazards Identification :	H225 Highly flammable liquid and vapour
	H320 Causes eye irritation
	H335 May cause respiratory irritation
	H336 May cause drowsiness or dizziness
	H350 May cause cancer
	H360 May damage fertility or the unborn child
	H372 Causes damage to organs through prolonged or repeated exposure (Liver)
	H373 May cause damage to organs through prolonged or repeated exposure (The CNS)

Precautions :

[Prevention]	P201 Obtain special instructions before use
	P202 Do not handle until all safety precautions have been read and understood
	P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
	P233 Keep container tightly closed
	P240 Ground/bond container and receiving equipment
	P241 Use explosion-proof electrical/ventilating/light/.../equipment
	P242 Use only non-sparking tools
	P243 Take precautionary measures against static discharge
	P260 Do not breathe dust/fume/gas/mist/vapours/spray
	P264 Wash hands thoroughly after handling
	P270 Do not eat, drink or smoke when using this product
	P271 Use only outdoors or in a well-ventilated area
	P280 Wear protective gloves/protective clothing/eye protection/face protection
[Response]	P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
	P314 Get Medical advice/attention if you feel unwell
	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	P308+P313 If exposed or concerned: Get medical advice/attention
	P337+P313 If eye irritation persists get medical advice/attention
	P370+P378 In case of fire: if water increases risk ,use for extinction appropriate media
	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
[Storage]	P405 Store locked up
	P403+P233 Store in a well ventilated place. Keep container tightly closed
	P403+P235 Store in a well ventilated place. Keep cool
[Disposal]	P501 Dispose of contents and container in accordance with regulation

⑧ Beads Tubes (Zirconia sintered compact):

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

①Lysis Solution M

Single Product/Mixture Classification: Mixture

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

②Lysis Solution 20S

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Sodium dodecyl sulfate	< 25% (w/v)	C12H25SO4Na	151-21-3	Sodium dodecyl sulfate

③Purification Solution

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Hexadecyltrimethylammonium bromide	< 10% (w/v)	C19H42BrN	57-09-0	CTAB
Trade secret	Nondisclosure	Nondisclosure	Nondisclosure	Nondisclosure

④Wash Solution 1

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Trade secret	< 80% (w/v)	Nondisclosure	Nondisclosure	Nondisclosure

⑤Wash Solution 2

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Ethanol	> 60% (v/v)	C2H6O	64-17-5	Ethanol

⑥TE (pH8.0)

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Tris-HCl (pH8.0)	10mM	Not available	Not available	None
EDTA	1mM	Not available	Not available	None

⑦RNase A (100mg/ml)

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
RNase A	100mg/ml	Not available	Not available	None

⑧Beads Tube

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Zirconium oxide	90~96%	ZrO2	1314-23-4	Zirconium oxide
Yttrium oxide	3~7%	Y2O3	1314-36-9	Yttrium oxide
Hafnium oxide	1~3%	HfO2	12055-23-1	Hafnium oxide

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.
: ②③: Remove contaminated clothing immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains. Get medical attention.
- 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.
: ②③④: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
Get medical attention.
- Ingestion : Wash mouth out with water. Get medical attention.

Most important symptoms/effects, acute and delayed

- Inhalation : ②: Pharyngalgia, cough
⑤: Cough, headache, fatigue, lethargy
- Skin : ②: Redness
⑤: Defatting of the skin
- Eye : ②: Redness, pain
⑤: Reddening, painful stimulation, burning sensation
- Ingestion : ②: Nausea, vomiting, diarrhea
⑤: burning sensation, headache, excitement, dizziness, unconsciousness
- Most important symptoms : ②: May cause dermatitis.
⑤: May cause central nervous system effects.
May cause irritation, headache, fatigue, or inability to concentrate.
Prolonged or repeated exposure may cause adverse reproductive effects.
Prolonged or repeated exposure may cause cirrhosis of the liver.

5. FIRE FIGHTING MEASURES

Extinguishing Media : Powder, alcohol-resistant foam, carbon dioxide, dry sand, water spray

Banned Extinguishing Media : ④⑤: Solid stream jets

Specific Hazards : In case of fire, toxic and corrosive vapors or fumes may be formed.

Wear suitable protection to avoid inhalation.

: ⑤: Very flammable

Containers may explode in the heat of a fire.

Vapors may form an explosive mixture with air.

In case of fire, toxic and corrosive vapors or fumes may be formed.

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.

: ⑤: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

For large fires, use water spray, fog, or alcohol-resistant foam.

Move containers if it can be done without risk

Use water spray to cool fire-exposed containers.

Water may be ineffective.

Do NOT use straight streams of water.

Continue cooling containers after fire is out

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

: ⑤: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions, Personal Protection, and Emergency Equipment**

: Wear appropriate personal protective equipment as specified in [8. Exposure control / Personal protection] to avoid inhalation and contact with skin and eyes.

Do not touch containers or spillage without proper protection.

Ventilate area of leak or spill.

Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Stay in windward side.

Move away from low land area.

Environmental Precautions : Do not release to the environment.

Methods and materials for containment and cleaning up

: Clean spill area completely with floorcloth or the like.

: ⑤: Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in properly labeled containers for later disposal. Antistatic (non-sparking) tools should be used when collecting the absorbent.

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 and face and rinse mouth 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.
 Do not release the product to the environment
- : ⑤: Do not handle until all safety precautions have been read and understood.
 Prohibit the use of high temperature materials, spark, and fire around the product.
 Handle container with enough care not to damage container.
 Do not breathe mist, vapor, or spray.
 Wash hands thoroughly after handling.
 Avoid contact with eyes.
 Avoid inhalation and ingestion
 Use only in a well-ventilated area or outdoors.
- Incompatible Contacts : See 10. STABILITY AND REACTIVITY

Storage

- Storage Condition : Store at room temperature.
- Technical Measures : ⑤: Keep away from source of ignition
- Incompatible Materials for Storage : See 10. STABILITY AND REACTIVITY
- Material of Container : High density polyethylene, polypropylene
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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.

Appropriate engineering controls

- : Handle in accordance with good industrial hygiene and safety practice.
 Wash hands before breaks and at the end of workday.

Personal protective equipment

- Respiratory protection : Protective mask
- Hand protection : Suitable impervious gloves.
- Eye protection : Suitable safety glasses (goggles)
- Skin protection : Protective clothing (long sleeved)
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, Color etc)

- : Colorless liquid ⑧:White powder

Odor

- : Odorless ③:Acetic-acid odor ⑤Ethanol odor

pH

- : Not available ⑥:pH8.0

Melting point / freezing point

- : Not available

Initial boiling point and boiling range

- : Not available

Flash point

- : Not available

Upper/lower flammability or explosion limits

- : Not available

Vapor pressure

- : Not available

Relative density	: Not available	
Solubility	: Miscible in water	⑧:Insolubility
Partition coefficient (n-octanol/water)	: Not available	
Autoignition temperature	: Not available	
Decomposition temperature	: Not available	

10. STABILITY AND REACTIVITY

Reactivity	: Not available
Chemical stability	: Stable under proper storage conditions and handling
Possibility of hazardous reactions	: ②: Generates carbon monoxide or sulfur oxide gas when combusted Reactive with strong oxidizing agents and strong acids ⑤: Vapors may form an explosive mixture with air. Risk of explosion in presence of calcium hypochlorite, silver oxide, and/or ammonia. Degrades certain types of plastic, rubber, and coating agents
Conditions to avoid	: Light, heat ⑤: Exposure to high temperature
Incompatibilities	: ②: Strong oxidizing agents, Strong acids ⑤: Strong oxidizing agents, calcium hypochlorite, silver oxide, ammonia
Hazardous decomposition products	: Carbon monoxide, carbon dioxide ②: Corrosive and toxic gases including carbon monoxide and sulfur oxide.

11. TOXICOLOGICAL INFORMATION

②Lysis Solution 20S (sodium dodecyl sulfate):

Acute Toxicity	: Oral [rat] LD ₅₀ =1200mg/kg (The content of < 25%)	Not classified
	: Dermal [rabbit] LD ₅₀ =200mg/kg (The content of < 25%)	Category 3
	: Inhalation	Not available
Skin Corrosion / Irritation	: rabbit “highly irritating”	Category 2
Eye Damage / Irritation	: rabbit By the data of an irreversible symptom	Category 1
Respiratory or Skin Sensitization		
Respiratory Sensitization	: Not available	
Skin Sensitization	: No sensitisation potential.	Not classified
Germ Cell Mutagenicity	: There is no indication of mutagenicity .	Not classified
Carcinogenicity	: Not available	
Toxic to reproduction	: Not available	
Specific Target Organ Systemic Toxicity/Single Exposure	: The rabbit caused convulsions, dyspnea by an examination. Category 1 (The CNS)	
Specific Target Organ Systemic Toxicity/Repeated Exposure	: The rat was affected by liver by an examination.	Category 2 (Liver)
Aspiration Hazard	: Not available	

③Purification Solution (hexadecyltrimethylammonium bromide Mixture):

Acute Toxicity	: Oral [rat] LD ₅₀ >5000mg/kg	Not classified
	: Dermal	Not available
	: Inhalation	Not available
Skin Corrosion / Irritation	: CTAB : rat 「irritation :Category 2 The content of < 10% :Category 3」 trade secret : rabbit 「slightly irritating :Category 3」	Category 3
Eye Damage / Irritation	: CTAB : rabbit 「irritation :Category 2A The content of < 10% :Not classified」 trade secret : rabbit 「slightly irritating :Category 2B」 CTAB + trade secret: (The content of ≥ 10%)	Category 2A
Respiratory or Skin Sensitization	: Not available	
Germ Cell Mutagenicity	: Not available	
Carcinogenicity	: Not available	
Toxic to reproduction	: CTAB : Adverse effects on development of the offspring	Category 2

Specific Target Organ Systemic Toxicity/Single Exposure

: CTAB : 「Effects the haemal system and heart: Category 1」
 (The content of <10%)

Category 2

Specific Target Organ Systemic Toxicity/Repeated Exposure

: Not available

Aspiration Hazard

: Not available

④Wash Solution 1:

Acute Toxicity

: Oral LD₅₀<2000 mg/kg
 : Dermal LD₅₀>5000 mg/kg
 : Inhalation LC₅₀>5.0 mg/L

Category4
 Not classified
 Not classified

Skin Corrosion / Irritation : rabbit 「highly irritating」

Category2

Eye Damage / Irritation : rabbit 「irritating」

Category2A

Respiratory or Skin Sensitization

: Not available

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

④Wash Solution 2:(Ethanol):

Acute Toxicity

: Oral [rat] LD₅₀>5,000mg/kg
 : Dermal[Rabbit] LDLo=20,000 mg/kg bw)
 : Inhalation (vapor) [rat] LC₅₀>20,000ppmV(4h)

Not classified
 Not classified
 Not classified

Skin Corrosion / Irritation : [rabbit] Not irritating

Not classified

Eye Damage / Irritation : [rabbit] “Moderate irritating” The effects listed above are fully recovered
 within 7days of observat.

Category2B

Respiratory or Skin Sensitization

: Not available

Germ Cell Mutagenicity

: There is no indication of mutagenicity.

Not classified

Carcinogenicity

: Ethanol causes a malignant tumor for the esophagus.

Category1A

Toxic to Reproduction

: There is adverse effects on development of the offspring.

Category1A

Specific Target Organ Systemic Toxicity/Single Exposure

: May cause drowsiness or dizziness
 May cause respiratory irritation

Category3

Specific Target Organ Systemic Toxicity/Repeated Exposure

: Causes damage to liver through prolonged or repeated exposure

Category1(Liver)

: May Causes damage to the CNS through prolonged or repeated exposure

Category2(The CNS)

Aspiration Hazard

: Not available

12. ECOLOGICAL INFORMATION

②Lysis Solution 20S (sodium dodecyl sulfate):

Toxicity

: Crustaceans (Acartia) EC₅₀/LC₅₀=0.12mg/L/96H
 (The content of <25%) The aquatic environment acute hazard : Category 2

Persistence and Degradability

: High degradability (BOD=85.0% TOC= 99.3%)

Bioaccumulative potential

: Crustaceans (stoop water flea) NOEC=0.88mg/L
 The aquatic environment chronic hazard : Not classified

Mobility in soil

: Not available

Hazard to the ozone layer

: Not available

Other hazard information

: Not available

③Purification Solution (hexadecyltrimethylammonium bromide Mixture):

Toxicity

: Cyanobacteria (*Microcystis*) EC₅₀=0.03mg/L/96H
 (The content of <10%) The aquatic environment acute hazard : Category 1

Persistence and Degradability	: No degradability potential (0% by BOD)
Bioaccumulative potential	: Indication of bioaccumulation potential (BCF=741) EC ₅₀ <1mg/L, BCF>500, thus, chronic aquatic hazard is classified as Category 1
Mobility in soil	: Not available
Hazard to the ozone layer	: Not available
Other hazard information	: Not available

④ Wash Solution 1:

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

⑤ Wash Solution 2:(Ethanol):

Toxicity	: Algae (Chlorella) EC ₅₀ = 1000 mg/L/96 h	: Not classified
Persistence and Degradability	: High degradability 89%byBOD	
Bioaccumulative potential	: Crustacea(A kind of Ceriodaphnia) NOEC=9.6mg/L/10d Chronic aquatic hazard is not classified as hazardous for rapid degradability potential and no bioaccumulation potential.	
Mobility in soil	: Not available	
Hazard to the ozone layer	: Not available	
Other hazard information	: Not available	

13. DISPOSAL CONSIDERATIONS

Hazardous Waste	: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules). 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	: 3082
Chemical Name	: Environmentally hazardous substance, liquid, n.o.s. (Hexadecyltrimethylammonium Bromide Mixture)
Hazard Category	: Class 9
Package Type	: PGIII
Marine Pollutant	: applicable
UN Number	: 1170
Chemical Name	: Ethanol solution
Hazard Category	: Class 3
Package Type	: PG II
Marine Pollutant	: Not applicable

International regulations

Land	: Controlled under ADR/RID's regulations.
Sea	: Controlled under IMDG's regulations.
Air	: Controlled under IATA's regulations.

Additional Information	: Keep container out of direct sunlight and avoid any damage onto container during transport. Do not transport with food and feedstuffs. Do not load heavy container onto the material. Retention of the yellow card is required at the time of transfer.
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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.