

Safety Data Sheet

Part I: Diluent

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: HT5+ DR DILUENT
HT5+ DS DILUENT

Product code: HT5+ DR DILUENT : 105-035335-A0 (310mL×4)
HT5+ DS DILUENT : 105-035332-A0 (5.5L×2)

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

Intended use: For more information, see instruction for use and labels.

1.3. Details of the supplier of the safety data sheet

Manufacturer: Shenzhen Mindray Animal Medical Technology Co., LTD.

Address: Room 702, Tower 4, YESUN Intelligent Community III, No.1301-88
Guanguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen
518110, P.R.China

Tel: +86 0755 86541668 / Fax: +86 0755 86541668

E-mail Address: service@mindrayanimal.com

1.4. Emergency telephone number

Emergency telephone No: +86 0755 86541668 (Mon-Fri; 08:30-18:00 Beijing Time)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is belong to mixture.

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2. Label elements

Hazard pictograms: Not Applicable.

Signal word: Not Applicable.

Hazard statements: Not Applicable.

Precautionary statements: P501: Dispose of waste product, unused product, contaminated packaging in accordance with governmental requirements.

2.3. Other hazards

PBT, vPvB, carcinogens, mutagens, reproductive toxicants: This product does not contain any known PBT, vPvB, carcinogens, mutagens, reproductive toxicants as listed by SVHC candidate list.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Applicable.

3.2. Mixtures

HT5+ DR:

Name	CAS NO.	Concentration
Tris Buffer	Not Applicable	≤1.0%

HT5+ DS:

Name	CAS NO.	Concentration
Tris buffer	Not Applicable	≤0.5%
Sodium Chloride	7647-14-5	≤0.1%

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact	If this chemical contacts the skin, flush the area of skin with plenty water. If clothing becomes wet or significantly contaminated, remove and replace clothing. Where there is evidence of skin irritation, get medical attention.
Eye contact	Immediately flush eye(s) with large volumes of water for at least 15 minutes, occasionally lifting the lower and upper lids. Do NOT allow victim to rub or keep eyes closed. Get medical attention immediately.
Ingestion	Get medical attention if there has been ingestion of this

product. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by medical personnel.

Inhalation

The product is water based with slight volatilization, so there is a very small chance of inhalation. If the product is inhaled, move exposed individual to fresh air, and seek medical assistance immediately.

Medical**treatment**

Show this safety data sheet to medical personnel. Give symptomatic treatment and supportive therapy.

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

Acute symptoms No information available.

Delayed symptoms No information available.

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

Not Applicable.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Use fire extinguishing media appropriate for site conditions.

5.2. Special hazards arising from the substance or mixture

Not applicable.

5.3. Advice for firefighters

Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear gloves and laboratory coat. Prevent skin and eye contacting.

6.2. Environmental precautions

Keeping away from drains, surface and ground water and soil.

6.3. Methods and material for containment and cleaning up

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable

container. Dispose it in accordance with governmental requirements.

6.4. Reference to other sections

See Sections 8 and 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU.

Wash hands thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

All employees who handle this material should be trained to handle it safely.

Avoid contact with eyes, skin, and clothing. Empty containers should be completely drained and disposed of properly. Containers of this product must be properly labeled. Storage areas of this product should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorized personnel. Store containers in a cool, dry location away from direct sunlight at temperatures between 2-30°C. Keep product away from freezing. Keep container tightly closed when not in use. Observe all warnings and precautions listed for this product.

7.3. Specific end use(s)

Not Applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Skin protection	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by

a qualified professional.

Environmental exposure controls Prevent the product from entering drains and watercourses.

8.2. Exposure controls

No special engineering controls are required. Use in well ventilated area. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Transparent liquid
Odour	Odourless.
Odour threshold	Not applicable.
pH	HT5+ DR: 9.55±0.20 HT5+ DS: 7.50±0.20 (25±1°C)
Melting point/freezing point	0°C.
Initial boiling point and boiling range	No information available.
Flash point (typical)	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable. The product is water based, and not flammable or explosive.
Upper/lower flammability or explosive limits	No information available. The product is water based, and not flammable or explosive.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	1.00-1.05 (Water: 1.00).
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	No information available.

Auto-ignition temperature	No information available. The product is water based, and not flammable or explosive.
Decomposition temperature	No information available.
Viscosity	No information available.
Explosive properties	Not applicable. The product is water based, and not flammable or explosive.
Oxidizing properties	Not applicable.

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable.

10.2. Chemical stability

This product is stable under conditions specified by instruction for use and labels.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Avoid Frozen and high temperature(above 32°C).

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics,

metabolism and distribution No experimental data for this preparation available.

Acute toxicity	No experimental data for this preparation available.
Skin corrosion/irritation	No corrosive/irritant effect.
Serious eye Damage/irritation	No experimental data for this preparation available.
Respiratory or skin Sensitisation	No experimental data for this preparation available.
Germ cell mutagenicity	No experimental data for this preparation available.
Carcinogenicity	No experimental data for this preparation available.
Reproductive toxicity	No experimental data for this preparation available.
STOT-single exposure	No experimental data for this preparation available.
STOT-repeated exposure	No experimental data for this preparation available.
Aspiration hazard	No experimental data for this preparation available.

SECTION 12: Ecological information

12.1. Toxicity

Not applicable.

12.2. Persistence and degradability

Not applicable.

12.3. Bioaccumulative potential

Not applicable.

12.4. Mobility in soil

Not applicable.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste product, unused product and contaminated packaging in accordance with local requirements. To ensure compliance we recommend that you contact the relevant(local) authorities and/or an approved waste-disposal company for information.

SECTION 14: Transport information

14.1. UN number

IATA, ICAO, IMDG, ADR, RID, ADN Not regulated

14.2. UN proper shipping name

IATA, ICAO,IMDG, ADR, RID, ADN Not regulated

14.3. Transport hazard class(es)

IATA, ICAO,IMDG, ADR, RID, ADN Not regulated

14.4. Packing group

IATA, ICAO, IMDG, ADR, RID, ADN Not regulated

14.5. Environmental hazards

This product is not designated as a marine pollutant by the Department of Transportation.

14.6. Special precautions for user

See chapter 7 and chapter 8 for information.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU regulations: This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Date of last revision(year/month/day): 2022/06/08

Information of this Safety Data Sheet represents the today's state of our knowledge. The purpose is to characterise the product regarding safety precautions having to be kept. This document will not be a certification of features and will not be the basis of a legal contract.

Part II: LYSE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: HT5+ LD LYSE, HT5+ LH LYSE

Product code:

HT5+ LD LYSE: 105-035333-A0 (310mL×4);

HT5+ LH LYSE: 105-035334-A0 (200mL×4);

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

Intended use: For more information, see instruction for use and labels.

1.3. Details of the supplier of the safety data sheet

Manufacturer: Shenzhen Mindray Animal Medical Technology Co., LTD.

Address: Room 702, Tower 4, YESUN Intelligent Community III, No.1301-88 Guanguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen 518110, P.R.China

Tel: +86 0755 86541668 / Fax: +86 0755 86541668

E-mail Address: service@mindrayanimal.com

1.4. Emergency telephone number

Emergency telephone No: +86 0755 86541668 (Mon-Fri; 08:30-18:00 Beijing Time)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is belong to mixture.

This product does not meet the criteria for classification in any hazard class

according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2. Label elements

Hazard pictograms: Not Applicable.

Signal word: Not Applicable.

Hazard statements: Not Applicable.

Precautionary statements: P501: Dispose of waste product, unused product, contaminated packaging in accordance with governmental requirements.

2.3. Other hazards

PBT, vPvB, carcinogens, mutagens, reproductive toxicants: This product does not contain any known PBT, vPvB, carcinogens, mutagens, reproductive toxicants as listed by SVHC candidate list.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Applicable.

3.2. Mixtures

HT5+ LD LYSE

Name	CAS NO.	Concentration
Surfactant	Not Applicable	≤0.5%
Hepes Buffer	Not Applicable	≤0.5%

HT5+ LH LYSE

Name	CAS NO.	Concentration
Surfactant	Not Applicable	≤0.5%
Tris Buffer	Not Applicable	≤0.5%

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact	If this chemical contacts the skin, flush the area of skin with plenty water. If clothing becomes wet or significantly contaminated, remove and replace clothing. Where there is
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	evidence of skin irritation, get medical attention.
Eye contact	Immediately flush eye(s) with large volumes of water for at least 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately.
Ingestion	Get medical attention if there has been ingestion of this product. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by medical personnel.
Inhalation	The product is water based with slight volatilization, so there is a very small chance of inhalation. If the product is inhaled, move exposed individual to fresh air, and seek medical assistance immediately.
Medical treatment	Show this safety data sheet to medical personnel. Give symptomatic treatment and supportive therapy.

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

Acute symptoms Not Applicable

Delayed symptoms Not Applicable

4.3. Indication of any immediate medical attention and special treatment needed
Not Applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use fire extinguishing media appropriate for site conditions.

5.2. Special hazards arising from the substance or mixture

Not applicable.

5.3. Advice for firefighters

Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear gloves and laboratory coat. Prevent skin and eye contacting.

6.2. Environmental precautions

Keeping away from drains, surface and ground water and soil.

6.3. Methods and material for containment and cleaning up

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Dispose it in accordance with governmental requirements.

6.4. Reference to other sections

See Sections 8 and 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU.

Wash hands thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

All employees who handle this material should be trained to handle it safely.

Avoid contact with eyes, skin, and clothing. Empty containers should be completely drained and disposed of properly. Containers of this product must be properly labeled. Storage areas of this product should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorized personnel. Store containers in a cool, dry location away from direct sunlight at temperatures between 2-30°C. Keep product away from freezing. Keep container tightly closed when not in use. Observe all warnings and precautions listed for this product.

7.3. Specific end use(s)

Not Applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Skin protection	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection. If overexposure

should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

Environmental exposure controls	Prevent the product from entering drains and watercourses.
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8.2. Exposure controls

No special engineering controls are required. Use in well ventilated area. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Transparent liquid.
Odour	Slightly smell of surfactant.
Odour threshold	Not applicable.
pH	HT5+ LD LYSE: 7.30 ± 0.20 ; HT5+ LH LYSE: 7.50 ± 0.20 .
Melting point/freezing point	0 °C.
Initial boiling point and boiling range	No information available.
Flash point (typical)	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable. The product is water based, and not flammable or explosive.
Upper/lower flammability or explosive limits	Not applicable. The product is water based, and not flammable or explosive.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	1.00-1.25(Water: 1.00).

Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	Not applicable. The product is water based, and not flammable or explosive.
Decomposition temperature	Not applicable.
Viscosity	No information available.
Explosive properties	Not applicable. The product is water based, and not flammable or explosive.
Oxidizing properties	Not applicable. The product is water based, and not flammable or explosive.

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable.

10.2. Chemical stability

This product is stable under conditions specified by instruction for use and labels.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Avoid Frozen and high temperature(above 32°C). Keep away from sunlight.

10.5. Incompatible materials

Not applicable.

10.6. Hazardous decomposition products

When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution	Not applicable.
Acute toxicity	Not applicable.
Skin corrosion/irritation	Not applicable.
Serious eye Damage/irritation	Not applicable.
Respiratory or skin Sensitisation	Not applicable.
Germ cell mutagenicity	Not applicable.
Carcinogenicity	Not applicable.
Reproductive toxicity	Not applicable.
STOT-single exposure	Not applicable.
STOT-repeated exposure	Not applicable.
Aspiration hazard	No further relevant information available.

SECTION 12: Ecological information

12.1. Toxicity

Not applicable.

12.2. Persistence and degradability

Not applicable.

12.3. Bioaccumulative potential

Not applicable.

12.4. Mobility in soil

Not applicable.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste product, unused product and contaminated packaging in accordance with local requirements. To ensure compliance we recommend that you contact the relevant(local) authorities and/or an approved waste-disposal company for information.

SECTION 14: Transport information

14.1. UN number

IATA, ICAO, IMDG, ADR, RID, ADN Not regulated

14.2. UN proper shipping name

IATA, ICAO,IMDG, ADR, RID, ADN Not regulated

14.3. Transport hazard class(es)

IATA, ICAO,IMDG, ADR, RID, ADN Not regulated

14.4. Packing group

IATA, ICAO, IMDG, ADR, RID, ADN Not regulated

14.5. Environmental hazards

This product is not designated as a marine pollutant by the Department of Transportation.

14.6. Special precautions for user

See chapter 7 and chapter 8 for information.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU regulations: This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Date of last revision(year/month/day): 2022/06/08

Information of this Safety Data Sheet represents the today's state of our knowledge. The purpose is to characterise the product regarding safety precautions having to be kept. This document will not be a certification of features and will not be the basis of a legal contract.

Part III: Dye

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: HT5+ FR DYE, HT5+ FD DYE

Product code:

HT5+ FR DYE: 105-035338-A0 (5mL×4);

HT5+ FD DYE: 105-035337-A0 (12mL×4);

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

Intended use: For more information, see instruction for use and labels.

1.3. Details of the supplier of the safety data sheet

Manufacturer: Shenzhen Mindray Animal Medical Technology Co., LTD.

Address: Room 702, Tower 4, YESUN Intelligent Community III, No.1301-88 Guanguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen 518110, P.R.China

Tel: +86 0755 86541668 / Fax: +86 0755 86541668

E-mail Address: service@mindrayanimal.com

1.4. Emergency telephone number

Emergency telephone No: +86 0755 86541668 (Mon-Fri; 08:30-18:00 Beijing Time)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is belong to mixture.

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2. Label elements



Hazard pictograms:

Signal word: Warning.

Hazard statements: H302: Harmful if swallowed.

Precautionary statements: P501: Dispose of waste product, unused product, contaminated packaging in accordance with governmental requirements.

2.3. Other hazards

PBT, vPvB, carcinogens, mutagens, reproductive toxicants: This product does not contain any known PBT, vPvB, carcinogens, mutagens, reproductive toxicants as listed by SVHC candidate list.

May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause kidney damage. May cause central nervous system effects. May cause cardiac disturbances. This substance has caused adverse reproductive and fetal effects in animals.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Applicable.

3.2. Mixtures

HT5+ FR DYE

Name	CAS NO.	Concentration
Fluorochrome	Not Applicable	≤0.01%
Ethylene Glycol	107-21-1	94-99%

HT5+ FD DYE

Name	CAS NO.	Concentration
Fluorochrome	Not Applicable	≤0.01%
Ethylene Glycol	107-21-1	94-99%

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact	If this chemical contacts the skin, flush the area of skin with plenty water. If clothing becomes wet or significantly contaminated, remove and replace clothing. Where there is evidence of skin irritation, get medical attention.
Eye contact	Immediately flush eye(s) with large volumes of water for at least 15 minutes, occasionally lifting the lower and upper lids. Do NOT allow victim to rub or keep eyes closed. Get medical attention immediately.
Ingestion	Get medical attention if there has been ingestion of this product. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by medical personnel.
Inhalation	The product is water based with slight volatilization, so there is a very small chance of inhalation. If the product is inhaled, move exposed individual to fresh air, and seek medical assistance immediately.
Medical treatment	Show this safety data sheet to medical personnel. Give symptomatic treatment and supportive therapy.

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

Acute symptoms No information available.

Delayed symptoms No information available.

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

Not Applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use fire extinguishing media appropriate for site conditions, such as CO₂, extinguishing powder or water spray.

5.2. Special hazards arising from the substance or mixture

None.

5.3. Advice for firefighters

Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear gloves and laboratory coat. Prevent skin and eye contacting.

6.2. Environmental precautions

Keeping away from drains, surface and ground water and soil.

6.3. Methods and material for containment and cleaning up

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Dispose it in accordance with governmental requirements.

6.4. Reference to other sections

See Sections 8 and 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU.

Wash hands thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

All employees who handle this material should be trained to handle it safely.

Avoid contact with eyes, skin, and clothing. Empty containers should be completely drained and disposed of properly. Containers of this product must be properly labeled. Storage areas of this product should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorized personnel. Store containers in a cool, dry location away from direct sunlight at temperatures between 2-30°C. Keep product away from freezing and open flame. Keep container tightly closed when not in use. Observe all warnings and precautions listed for this product.

7.3. Specific end use(s)

Not Applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits	Ethylene glycol: CL 50 ppm.
Skin protection	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.
Environmental exposure controls	Prevent the product from entering drains and watercourses.

8.2. Exposure controls

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear blue liquid.
Odour	Slightly smell of ethanol.
Odour threshold	Not applicable.
pH	Not applicable.
Melting point/freezing point	-13°C.
Initial boiling point and boiling range	Boiling point: 197°C. Boiling range: No information available.
Flash point (typical)	112°C (closed container).

Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	0.07mm Hg.
Vapour density	2.1(air=1).
Relative density	1.00-1.25(Water: 1.00).
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity	No information available.
Explosive properties	3.2%~15.3%.
Oxidizing properties	Not applicable.

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable.

10.2. Chemical stability

Stable at room temperature in closed containers under normal storage and handling conditions. Ethylene glycol is incompatible with strong bases, strong acids, strong oxidizing agents, perchloric acid, chromyl chloride and polymerization catalysts.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Avoid Frozen and high temperature(above 32°C). Keep away from sunlight, ignition sources and moisture.

10.5. Incompatible materials

Incompatible materials such as strong bases, strong acids, strong oxidizing agents, perchloric acid, chromyl chloride and polymerization catalysts.

10.6. Hazardous decomposition products

When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution	No experimental data for this preparation available.
Acute toxicity	LD50:4700mg/Kg(Oral,Rat); LD50: 5500mg/Kg(Oral,Mouse); LD50: 9530uL/kg(Skin,Rabbit); LDL0:400-1600mg/Kg(Oral,Man); TDL0:1.2-16g/Kg(Oral,Man).
Skin corrosion/irritation	No corrosive/irritant effect.
Serious eye Damage/irritation	No experimental data for this preparation available.
Respiratory or skin Sensitisation	No experimental data for this preparation available.
Germ cell mutagenicity	No experimental data for this preparation available.
Carcinogenicity	No experimental data for this preparation available.
Reproductive toxicity	No experimental data for this preparation available.

STOT-single exposure

No experimental data for this preparation available.

STOT-repeated exposure

No experimental data for this preparation available.

Aspiration hazard

No experimental data for this preparation available.

SECTION 12: Ecological information**12.1. Toxicity**

Rainbow trout: LC50 : 41000 mg/L,96 Hr; Shrimp (salt water) LC50: >100ppm,48Hr.

12.2. Persistence and degradability

On soil, substance may leach to groundwater and biodegrade rapidly. In water, substance readily biodegrades. In air, substance reacts with hydroxyl radicals (T1/2= 1 day).

12.3. Bioaccumulative potential

Substance is not expected to bioconcentrate in marine life.

12.4. Mobility in soil

This material is expected to readily biodegrade or leach into groundwater when it released into soil. And it is expected to readily biodegrade after leached into water.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Not applicable.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Dispose of waste product, unused product and contaminated packaging in accordance with local requirements. To ensure compliance we recommend that you contact the relevant(local) authorities and/or an approved waste-disposal company for information.

SECTION 14: Transport information**14.1. UN number**

IATA, ICAO, IMDG, ADR, RID, ADN

Not regulated

14.2. UN proper shipping name

IATA, ICAO,IMDG, ADR, RID, ADN Not regulated

14.3. Transport hazard class(es)

IATA, ICAO,IMDG, ADR, RID, ADN Not regulated

14.4. Packing group

IATA, ICAO, IMDG, ADR, RID, ADN Not regulated

14.5. Environmental hazards

This product is not designated as a marine pollutant by the Department of Transportation.

14.6. Special precautions for user

See chapter 7 and chapter 8 for information.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU regulations: This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Date of last revision(year/month/day): 2022/06/08

Information of this Safety Data Sheet represents the today's state of our knowledge. The purpose is to characterise the product regarding safety precautions having to be kept. This document will not be a certification of features and will not be the basis of a legal contract.

Part IV: Solution Reagent

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: HT5+ Solution Reagent

Product code: 105-035336-A0 (80mL×4)

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

Intended use: For more information, see instruction for use and labels.

1.3. Details of the supplier of the safety data sheet

Manufacturer: Shenzhen Mindray Animal Medical Technology Co., LTD.

Address: Room 702, Tower 4, YESUN Intelligent Community III, No.1301-88
Guangang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen
518110, P.R.China

Tel: +86 0755 86541668 / Fax: +86 0755 86541668

E-mail Address: service@mindrayanimal.com

1.4. Emergency telephone number

Emergency telephone No: +86 0755 86541668 (Mon-Fri; 08:30-18:00 Beijing Time)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is belong to mixture.

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2. Label elements

Hazard pictograms: Not Applicable.

Signal word: Not Applicable.

Hazard statements: Not Applicable.

Precautionary statements: P501: Dispose of waste product, unused product, contaminated packaging in accordance with governmental requirements.

2.3. Other hazards

PBT, vPvB, carcinogens, mutagens, reproductive toxicants: This product does not contain any known PBT, vPvB, carcinogens, mutagens, reproductive toxicants as listed

by SVHC candidate list.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Applicable.

3.2. Mixtures

Name	CAS NO.	Concentration
Tris Buffer	Not Applicable	≤1.0%

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact	If this chemical contacts the skin, flush the area of skin with plenty water. If clothing becomes wet or significantly contaminated, remove and replace clothing. Where there is evidence of skin irritation, get medical attention.
Eye contact	Immediately flush eye(s) with large volumes of water for at least 15 minutes, occasionally lifting the lower and upper lids. Do NOT allow victim to rub or keep eyes closed. Get medical attention immediately.
Ingestion	Get medical attention if there has been ingestion of this product. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by medical personnel.
Inhalation	The product is water based with slight volatilization, so there is a very small chance of inhalation. If the product is inhaled, move exposed individual to fresh air, and seek medical assistance immediately.
Medical treatment	Show this safety data sheet to medical personnel. Give symptomatic treatment and supportive therapy.

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

Acute symptoms	No information available.
Delayed symptoms	No information available.

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

Not Applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use fire extinguishing media appropriate for site conditions.

5.2. Special hazards arising from the substance or mixture

Not applicable.

5.3. Advice for firefighters

Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear gloves and laboratory coat. Prevent skin and eye contacting.

6.2. Environmental precautions

Keeping away from drains, surface and ground water and soil.

6.3. Methods and material for containment and cleaning up

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Dispose it in accordance with governmental requirements.

6.4. Reference to other sections

See Sections 8 and 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

As with all chemicals, avoid getting this product ON YOU or IN YOU.

Wash hands thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

All employees who handle this material should be trained to handle it safely.

Avoid contact with eyes, skin, and clothing. Empty containers should be completely

drained and disposed of properly. Containers of this product must be properly labeled. Storage areas of this product should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorized personnel. Store containers in a cool, dry location away from direct sunlight at temperatures between 2-30°C. Keep product away from freezing. Keep container tightly closed when not in use. Observe all warnings and precautions listed for this product.

7.3. Specific end use(s)

Not Applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Skin protection	Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.
Eye protection	Safety glasses or chemical goggles should be worn to prevent eye contact.
Respiratory protection	Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.
Environmental exposure controls	Prevent the product from entering drains and watercourses.

8.2. Exposure controls

No special engineering controls are required. Use in well ventilated area. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Transparent liquid
Odour	Odourless.
Odour threshold	Not applicable.

pH	9.55±0.20
Melting point/freezing point	0°C.
Initial boiling point and boiling range	No information available.
Flash point (typical)	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable. The product is water based, and not flammable or explosive.
Upper/lower flammability or explosive limits	No information available. The product is water based, and not flammable or explosive.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	1.00-1.05 (Water: 1.00).
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available. The product is water based, and not flammable or explosive.
Decomposition temperature	No information available.
Viscosity	No information available.
Explosive properties	Not applicable. The product is water based, and not flammable or explosive.
Oxidizing properties	Not applicable.

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable.

10.2. Chemical stability

This product is stable under conditions specified by instruction for use and labels.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Avoid Frozen and high temperature(above 32°C).

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution	No experimental data for this preparation available.
Acute toxicity	No experimental data for this preparation available.
Skin corrosion/irritation	No corrosive/irritant effect.
Serious eye Damage/irritation	No experimental data for this preparation available.
Respiratory or skin Sensitisation	No experimental data for this preparation available.
Germ cell mutagenicity	No experimental data for this preparation available.
Carcinogenicity	No experimental data for this preparation available.
Reproductive toxicity	No experimental data for this preparation available.
STOT-single exposure	No experimental data for this preparation available.

STOT-repeated exposure

No experimental data for this preparation available.

Aspiration hazard

No experimental data for this preparation available.

SECTION 12: Ecological information

12.1. Toxicity

Not applicable.

12.2. Persistence and degradability

Not applicable.

12.3. Bioaccumulative potential

Not applicable.

12.4. Mobility in soil

Not applicable.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Not applicable.

SECTION 13: Disposal considerations

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