

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version 1.5      Revision Date: 2023/09/30      SDS Number: 6344695-00006      Date of last issue: 2023/04/04  
Date of first issue: 2020/09/16

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ovipast Plus Formulation

#### Manufacturer or supplier's details

Company : MSD

Address : No. 485 Jing Tai Road  
Pu Tuo District - Shanghai - China 200331

Telephone : +1-908-740-4000

Emergency telephone number : 86-571-87268110

E-mail address : EHSDATASTEWARD@msd.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Veterinary medicine

Restrictions on use : Not applicable

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### 2. HAZARDS IDENTIFICATION

#### Emergency Overview


<b>Appearance</b>	: suspension
<b>Colour</b>	: off-white to beige, opaque
<b>Odour</b>	: No data available

May cause an allergic skin reaction.

#### GHS Classification

Skin sensitisation : Category 1

#### GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P272 Contaminated work clothing should not be allowed out of

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version 1.5      Revision Date: 2023/09/30      SDS Number: 6344695-00006      Date of last issue: 2023/04/04  
Date of first issue: 2020/09/16

the workplace.  
P280 Wear protective gloves.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

May cause an allergic skin reaction.

### Environmental hazards

Not classified based on available information.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Aluminum hydroxide	21645-51-2	25
Antigen	Not Assigned	> 1.5 -< 2.5
Maleic acid	110-16-7	0.23
Thiomersal	54-64-8	0.013

## 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

---

In case of eye contact	:	Thoroughly clean shoes before reuse. Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

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### 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire-fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides Metal oxides
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain-

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version 1.5      Revision Date: 2023/09/30      SDS Number: 6344695-00006      Date of last issue: 2023/04/04  
Date of first issue: 2020/09/16

ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 7. HANDLING AND STORAGE

#### Handling

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not get on skin or clothing.  
Avoid breathing mist or vapours.  
Do not swallow.  
Avoid contact with eyes.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Take care to prevent spills, waste and minimize release to the environment.
- Avoidance of contact : Oxidizing agents

#### Storage

- Conditions for safe storage : Keep in properly labelled containers.  
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents
- Packaging material : Unsuitable material: None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum hydroxide	21645-51-2	TWA (Respirable particulate matter)	1 mg/m <sup>3</sup> (Aluminium)	ACGIH
Thiomersal	54-64-8	PC-TWA	0.01 mg/m <sup>3</sup> (Mercury)	CN OEL
Further information: Skin				

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version 1.5      Revision Date: 2023/09/30      SDS Number: 6344695-00006      Date of last issue: 2023/04/04  
Date of first issue: 2020/09/16

		PC-STEL	0.03 mg/m <sup>3</sup> (Mercury)	CN OEL
	Further information: Skin			
		TWA	0.01 mg/m <sup>3</sup> (Mercury)	ACGIH
		STEL	0.03 mg/m <sup>3</sup> (Mercury)	ACGIH

**Engineering measures** : Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).  
All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.  
Laboratory operations do not require special containment.

### Personal protective equipment

**Respiratory protection** : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

**Filter type** : Particulates type

**Eye/face protection** : Wear safety glasses with side shields or goggles.  
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.  
Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.

**Skin and body protection** : Work uniform or laboratory coat.

**Hand protection**  
**Material** : Chemical-resistant gloves

**Hygiene measures** : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.  
Contaminated work clothing should not be allowed out of the workplace.  
Wash contaminated clothing before re-use.  
The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : suspension

**Colour** : off-white to beige, opaque

**Odour** : No data available

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

---

Odour Threshold	:	No data available
pH	:	6.1 - 6.9
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	similar to water
Relative vapour density	:	No data available
Relative density	:	1
Density	:	1 g/cm <sup>3</sup> similar to water
Solubility(ies)		
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

Molecular weight : Not applicable

Particle size : Not applicable

### 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : Can react with strong oxidizing agents.  
Conditions to avoid : None known.  
Incompatible materials : Oxidizing agents  
Hazardous decomposition products : No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

Exposure routes : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Components:

##### Aluminum hydroxide:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 5.09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

##### Maleic acid:

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): 1,560 mg/kg

##### Thiomersal:

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

---

Acute oral toxicity : LD50 (Rat): 75 mg/kg  
Acute toxicity estimate: 10 mg/kg  
Method: Expert judgement  
Remarks: Based on national or regional regulation.

Acute inhalation toxicity : Acute toxicity estimate: 0.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgement  
Remarks: Based on national or regional regulation.

Acute dermal toxicity : Acute toxicity estimate: 10 mg/kg  
Method: Expert judgement  
Remarks: Based on national or regional regulation.

### Skin corrosion/irritation

Not classified based on available information.

#### Components:

##### Aluminum hydroxide:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

##### Maleic acid:

Species : in vitro membrane barrier  
Method : OECD Test Guideline 435  
Result : Corrosive after 3 minutes to 1 hour of exposure

### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### Aluminum hydroxide:

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

##### Maleic acid:

Result : Irreversible effects on the eye  
Remarks : Based on skin corrosivity.



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

---

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

##### Aluminum hydroxide:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

##### Maleic acid:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: positive

Assessment : Probability or evidence of skin sensitisation in humans

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### Aluminum hydroxide:

Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
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Test Type: Chromosome aberration test in vitro  
Result: positive  
Remarks: Based on data from similar materials

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Result: equivocal  
Remarks: Based on data from similar materials

Test Type: in vitro micronucleus test  
Result: positive  
Remarks: Based on data from similar materials

Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
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# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

---

Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative

### Maleic acid:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

### Thiomersal:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian spermatogonial chromosome aberration test (in vivo)  
Species: Mouse  
Application Route: Ingestion  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Components:

#### Aluminum hydroxide:

Species : Rat  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 86 weeks  
Result : negative  
Remarks : Based on data from similar materials

#### Maleic acid:

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative  
Remarks : Based on data from similar materials

#### Thiomersal:

Species : Rat  
Exposure time : 1 Years  
Result : negative

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

---

### Reproductive toxicity

Not classified based on available information.

### Components:

#### Aluminum hydroxide:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

#### Maleic acid:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

#### Thiomersal:

Effects on foetal development : Species: Rat  
Application Route: Ingestion  
Result: positive  
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

### STOT - single exposure

Not classified based on available information.

### Components:

#### Maleic acid:

Assessment : May cause respiratory irritation.  
Remarks : Based on national or regional regulation.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

---

### STOT - repeated exposure

Not classified based on available information.

#### Components:

##### Thiomersal:

Target Organs	:	Central nervous system, Cardio-vascular system, Gastrointestinal tract, Kidney
Assessment	:	Causes damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

#### Components:

##### Aluminum hydroxide:

Species	:	Rat
NOAEL	:	> 100 mg/kg
Application Route	:	Ingestion
Exposure time	:	364 Days
Method	:	OECD Test Guideline 426
Remarks	:	Based on data from similar materials

Species	:	Rat
NOAEL	:	> 0.2 mg/kg
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	12 Months
Remarks	:	Based on data from similar materials

##### Thiomersal:

Species	:	Rat
LOAEL	:	>= 0.5 mg/kg
Application Route	:	Ingestion
Remarks	:	Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### Aluminum hydroxide:

Toxicity to fish	:	LL50 (Salmo trutta (brown trout)): > 100 mg/l Exposure time: 96 h
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Toxicity to daphnia and other	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l
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# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

---

aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic plants : EL50 (*Selenastrum capricornutum* (green algae)): > 100 mg/l  
Exposure time: 96 h

### Maleic acid:

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): > 10 - 100 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 42.81 mg/l  
Exposure time: 48 h  
Test substance: Neutralised product  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 74.35 mg/l  
Exposure time: 72 h  
Test substance: Neutralised product  
Method: OECD Test Guideline 201

EC10 (*Pseudokirchneriella subcapitata* (green algae)): 11.8 mg/l  
Exposure time: 72 h  
Test substance: Neutralised product  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): > 1 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (*Pseudomonas putida*): 44.6 mg/l  
Exposure time: 18 h  
Test substance: Neutralised product  
Method: DIN 38 412 Part 8

### Thiomersal:

Toxicity to fish : LC50 (*Poecilia reticulata* (guppy)): > 0.01 - 0.1 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): > 0.01 - 0.1 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 0.01 - 0.1 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

---

M-Factor (Acute aquatic toxicity) : 10  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia sp. (water flea)): > 0.001 - 0.01 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 10

### Persistence and degradability

#### Components:

##### Maleic acid:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Components:

##### Maleic acid:

Partition coefficient: n-octanol/water : log Pow: -1.3

##### Mobility in soil

No data available

##### Other adverse effects

No data available

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

---

Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

### IATA-DGR

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

### IMDG-Code

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
Marine pollutant : Not applicable

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### GB 6944/12268

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

### Special precautions for user

Not applicable

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## 15. REGULATORY INFORMATION

### National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

#### Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

### The components of this product are reported in the following inventories:

AICS : not determined

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
1.5	2023/09/30	6344695-00006	Date of first issue: 2020/09/16

DSL : not determined  
IECSC : not determined

### 16. OTHER INFORMATION

Revision Date : 2023/09/30

#### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Date format : yyyy/mm/dd

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
CN OEL : Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
CN OEL / PC-TWA : Permissible concentration - time weighted average  
CN OEL / PC-STEEL : Permissible concentration - short term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Tem-



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Ovipast Plus Formulation

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perature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

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