

# SAFETY DATA SHEET



## Gonadorelin Formulation

Version  
6.0

Revision Date:  
28.09.2024

SDS Number:  
613528-00018

Date of last issue: 08.12.2023  
Date of first issue: 27.04.2016

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### SECTION 1. IDENTIFICATION

Product identifier : Gonadorelin Formulation  
Other means of identification : FERTAGYL SYNTHETIC GONADOTROPHIN RELEASING HORMONE (37210)

#### Manufacturer or supplier's details

Company : MSD  
Address : Rua Coronel Bento Soares, 530  
Cruzeiro - Sao Paulo - Brazil CEP 12730-340  
Telephone : 908-740-4000  
Emergency telephone : 1-908-423-6000  
E-mail address : EHSDATASTEWARD@msd.com

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

Recommended use : Veterinary product  
Restrictions on use : Not applicable

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification in accordance with ABNT NBR 14725 Standard

Skin sensitization : Category 1  
Reproductive toxicity : Category 2  
Specific target organ toxicity - repeated exposure (Oral) : Category 1 (Endocrine system)

#### GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.  
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
H372 Causes damage to organs (Endocrine system) through prolonged or repeated exposure if swallowed.

Precautionary Statements : Prevention:

# SAFETY DATA SHEET



## Gonadorelin Formulation

Version  
6.0

Revision Date:  
28.09.2024

SDS Number:  
613528-00018

Date of last issue: 08.12.2023  
Date of first issue: 27.04.2016

P201 Obtain special instructions before use.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

### Storage:

P405 Store locked up.

### Other hazards which do not result in classification

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Benzyl alcohol	100-51-6	Acute Tox. (Oral), 4 Eye Irrit., 2A Skin Sens., 1B	>= 1 - < 5
Gonadorelin	34973-08-5	Repr., 2 STOT RE, (Oral)(Endocrine system) , 1	>= 0,001 - < 0,1

## SECTION 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.

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.

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.

**Gonadorelin Formulation**

Version 6.0	Revision Date: 28.09.2024	SDS Number: 613528-00018	Date of last issue: 08.12.2023 Date of first issue: 27.04.2016
----------------	------------------------------	-----------------------------	---

Most important symptoms and effects, both acute and delayed	Get medical attention. Rinse mouth thoroughly with water. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure if swallowed.
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.

**SECTION 5. FIRE-FIGHTING 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
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 fire-fighters	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

**SECTION 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	Soak up with inert absorbent material.

# SAFETY DATA SHEET



## Gonadorelin Formulation

Version 6.0	Revision Date: 28.09.2024	SDS Number: 613528-00018	Date of last issue: 08.12.2023 Date of first issue: 27.04.2016
----------------	------------------------------	-----------------------------	---

containment and cleaning up	For large spills, provide diking or other appropriate containment to keep material from spreading. If diked 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.
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## SECTION 7. HANDLING AND STORAGE

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. Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
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.
Conditions for safe storage	: Keep in properly labeled containers. Store locked up. Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis

# SAFETY DATA SHEET



## Gonadorelin Formulation

Version 6.0 Revision Date: 28.09.2024 SDS Number: 613528-00018 Date of last issue: 08.12.2023 Date of first issue: 27.04.2016

Gonadorelin	34973-08-5	TWA	0.2 µg/m <sup>3</sup> (OEB 5)	Internal
		Wipe limit	2 µg/100 cm <sup>2</sup>	Internal

**Engineering measures** : Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

### 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 : Organic vapor Type  
Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:  
Safety glasses

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: No data available
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: No data available

# SAFETY DATA SHEET



## Gonadorelin Formulation

Version 6.0      Revision Date: 28.09.2024      SDS Number: 613528-00018      Date of last issue: 08.12.2023  
Date of first issue: 27.04.2016

---

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Density : No data available

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-octanol/water : No data available

Autoignition 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.

Molecular weight : Not applicable

Particle characteristics

Particle size : No data available

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## SECTION 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.

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

**Gonadorelin Formulation**Version  
6.0Revision Date:  
28.09.2024SDS Number:  
613528-00018Date of last issue: 08.12.2023  
Date of first issue: 27.04.2016**Acute toxicity****|||** Not classified based on available information.**Product:**

Acute oral toxicity

: Acute toxicity estimate: > 5.000 mg/kg  
Method: Calculation method**Components:****Benzyl alcohol:**

Acute oral toxicity

: LD50 (Rat): 1.200 mg/kg

Acute inhalation toxicity

: LC50 (Rat): > 5,4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity**Gonadorelin:**

Acute oral toxicity

: LD50 (Rat): &gt; 3.000 mg/kg

LD50 (Mouse): &gt; 4.000 mg/kg

Acute inhalation toxicity

: Remarks: No data available

Acute dermal toxicity

: Remarks: No data available

**Skin corrosion/irritation****|||** Not classified based on available information.**Components:****Benzyl alcohol:**

Species

: Rabbit

Method

: OECD Test Guideline 404

Result

: No skin irritation

**Gonadorelin:****|||** Remarks

: No data available

**Serious eye damage/eye irritation****|||** Not classified based on available information.**Components:****Benzyl alcohol:**

Species

: Rabbit

Result

: Irritation to eyes, reversing within 21 days

Method

: OECD Test Guideline 405

# SAFETY DATA SHEET



## Gonadorelin Formulation

Version 6.0      Revision Date: 28.09.2024      SDS Number: 613528-00018      Date of last issue: 08.12.2023  
Date of first issue: 27.04.2016

### **Gonadorelin:**

||| Remarks : No data available

### **Respiratory or skin sensitization**

#### **Skin sensitization**

||| May cause an allergic skin reaction.

#### **Respiratory sensitization**

||| Not classified based on available information.

### **Components:**

#### **Benzyl alcohol:**

Test Type	: Human repeat insult patch test (HRIPT)
Routes of exposure	: Skin contact
Species	: Humans
Result	: positive
Assessment	: Probability or evidence of low to moderate skin sensitization rate in humans

### **Gonadorelin:**

||| Remarks : No data available

### **Germ cell mutagenicity**

||| Not classified based on available information.

### **Components:**

#### **Benzyl alcohol:**

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative

### **Gonadorelin:**

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
	: Test Type: In vitro mammalian cell gene mutation test Result: negative Remarks: Based on data from similar materials
	: Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on data from similar materials

**Gonadorelin Formulation**

Version 6.0      Revision Date: 28.09.2024      SDS Number: 613528-00018      Date of last issue: 08.12.2023  
Date of first issue: 27.04.2016

---

|| Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Carcinogenicity**

|| Not classified based on available information.

**Components:****Benzyl alcohol:**

|| Species : Mouse  
|| Application Route : Ingestion  
|| Exposure time : 103 weeks  
|| Method : OECD Test Guideline 451  
|| Result : negative

**Gonadorelin:**

|| Species : Mouse  
|| Exposure time : 2 Years  
|| LOAEL : 2,4 mg/kg body weight  
|| Result : positive  
|| Remarks : Based on data from similar materials

|| Species : Rat  
|| Exposure time : 1 Years  
|| LOAEL : 0,05 mg/kg body weight  
|| Result : negative  
|| Remarks : Benign tumor(s)  
The mechanism or mode of action may not be relevant in humans.  
Based on data from similar materials

**Reproductive toxicity**

|| Suspected of damaging fertility. Suspected of damaging the unborn child.

**Components:****Benzyl alcohol:**

|| Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials

|| Effects on fetal development : Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Ingestion  
Result: negative

**Gonadorelin:**

|| Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, female  
Application Route: Subcutaneous  
Fertility: LOAEL: 50 µg/kg

**Gonadorelin Formulation**

Version 6.0	Revision Date: 28.09.2024	SDS Number: 613528-00018	Date of last issue: 08.12.2023 Date of first issue: 27.04.2016
----------------	------------------------------	-----------------------------	---

		<p>Result: Effects on fertility. Remarks: Based on data from similar materials</p> <p>Test Type: Fertility/early embryonic development Species: Rat, male Application Route: Subcutaneous Fertility: LOAEL: 500 µg/kg Result: Effects on fertility. Remarks: Based on data from similar materials</p> <p>Test Type: Fertility/early embryonic development Species: Rabbit Application Route: Subcutaneous Fertility: LOAEL: 1.000 µg/kg Result: Effects on fertility.</p> <p>Test Type: Fertility/early embryonic development Species: Dog, male and female Application Route: Subcutaneous Fertility: LOAEL: 107 - 214 µg/kg Result: Effects on fertility.</p>
Effects on fetal development	:	<p>Test Type: Embryo-fetal development Species: Rat Application Route: Subcutaneous Developmental Toxicity: LOAEL: &gt;= 2 µg/kg Result: Effects on fetal development.</p> <p>Test Type: Embryo-fetal development Species: Rabbit Application Route: Subcutaneous Developmental Toxicity: LOAEL: &gt; 20 µg/kg Result: Effects on fetal development.</p>
Reproductive toxicity - Assessment	:	<p>Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.</p>

**STOT-single exposure**

|| Not classified based on available information.

**STOT-repeated exposure**

|| Causes damage to organs (Endocrine system) through prolonged or repeated exposure if swallowed.

**Components:****Gonadorelin:**

|| Target Organs Assessment : Endocrine system  
|| : Causes damage to organs through prolonged or repeated exposure.

# SAFETY DATA SHEET



## Gonadorelin Formulation

Version 6.0	Revision Date: 28.09.2024	SDS Number: 613528-00018	Date of last issue: 08.12.2023 Date of first issue: 27.04.2016
-------------	---------------------------	--------------------------	---

### Repeated dose toxicity

#### Components:

##### **Benzyl alcohol:**

Species	:	Rat
NOAEL	:	1,072 mg/l
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	28 Days
Method	:	OECD Test Guideline 412

##### **Gonadorelin:**

Species	:	Rat
NOAEL	:	0,12 mg/kg
Application Route	:	Intramuscular
Exposure time	:	15 Days
Remarks	:	No significant adverse effects were reported

Species	:	Rat
NOAEL	:	0,072 mg/kg
Application Route	:	Intravenous
Exposure time	:	15 Days
Remarks	:	No significant adverse effects were reported

Species	:	Dog
NOAEL	:	0,12 mg/kg
Application Route	:	Intramuscular
Exposure time	:	15 Days
Remarks	:	No significant adverse effects were reported

Species	:	Dog
NOAEL	:	0,072 mg/kg
Application Route	:	Intravenous
Exposure time	:	15 Days
Remarks	:	No significant adverse effects were reported

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

#### Components:

##### **Gonadorelin:**

Ingestion	:	Symptoms: Nausea, Abdominal pain, Headache, Palpitation, acne, liver function change, bronchospasm, anaphylaxis
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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Benzyl alcohol:**

# SAFETY DATA SHEET



## Gonadorelin Formulation

Version 6.0 Revision Date: 28.09.2024 SDS Number: 613528-00018 Date of last issue: 08.12.2023 Date of first issue: 27.04.2016

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	: NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 51 mg/l Exposure time: 21 d Method: OECD Test Guideline 211

### Persistence and degradability

#### Components:

##### **Benzyl alcohol:**

Biodegradability	: Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d
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### Bioaccumulative potential

#### Components:

##### **Benzyl alcohol:**

Partition coefficient: n-octanol/water	: log Pow: 1,05
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### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 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.

# SAFETY DATA SHEET



## Gonadorelin Formulation

Version 6.0      Revision Date: 28.09.2024      SDS Number: 613528-00018      Date of last issue: 08.12.2023  
Date of first issue: 27.04.2016

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### Domestic regulation

##### ANTT

Not regulated as a dangerous good

#### Special precautions for user

Not applicable

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### SECTION 15. REGULATORY INFORMATION

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

National List of Carcinogenic Agents for Humans - (LINACH) : Not applicable

Brazil. List of chemicals controlled by the Federal Police : Not applicable

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

AICS : not determined

DSL : not determined

IECSC : not determined

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### SECTION 16. OTHER INFORMATION

Revision Date : 28.09.2024  
Date format : dd.mm.yyyy

#### Further information

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

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

# SAFETY DATA SHEET



## Gonadorelin Formulation

Version  
6.0

Revision Date:  
28.09.2024

SDS Number:  
613528-00018

Date of last issue: 08.12.2023  
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---

### Full text of other abbreviations

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; KECI - 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 Temperature; 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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