

# SAFETY DATA SHEET



## Altrenogest (0.22%) Formulation (NZ)

Version 5.0      Revision Date: 14.04.2025      SDS Number: 5842509-00014      Date of last issue: 04.12.2024  
Date of first issue: 08.05.2020

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Altrenogest (0.22%) Formulation (NZ)  
Other means of identification : REGUMATE (A004536)

#### Manufacturer or supplier's details

Company name of supplier : MSD  
Address : 126 E. Lincoln Avenue  
Rahway, New Jersey U.S.A. 07065  
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

Skin sensitization : Category 1  
Reproductive toxicity : Category 1B

#### GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.  
H360 May damage fertility or the unborn child.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing mist or vapors.  
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.

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

**Storage:**

P405 Store locked up.

**Disposal:**

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

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

| Chemical name  | CAS-No.  | Concentration (% w/w) |
|----------------|----------|-----------------------|
| Benzyl alcohol | 100-51-6 | >= 1 - < 5            |
| Altrenogest    | 850-52-2 | >= 0.1 - < 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.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
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.  
Get medical attention.  
Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.  
May damage fertility or the unborn child.

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

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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.

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## 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 containment and cleaning up : Soak up with inert absorbent material.  
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

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| Technical measures          |                              | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.  |   |
| Local/Total ventilation     |                              | : If sufficient ventilation is unavailable, use with local exhaust ventilation.  |   |
| Advice on safe handling     |                              | : Do not get on skin or clothing.<br>Avoid breathing mist or vapors.<br>Do not swallow.<br>Avoid contact with eyes.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>Keep container tightly closed.<br>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.<br>When using do not eat, drink or smoke.<br>Contaminated work clothing should not be allowed out of the workplace.<br>Wash contaminated clothing before re-use.<br>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. |   |
| Conditions for safe storage |                              | : Keep in properly labeled containers.<br>Keep tightly closed.<br>Keep in a cool, well-ventilated place.<br>Store in accordance with the particular national regulations.  |   |
| Materials to avoid          |                              | : Do not store with the following product types:<br>Strong oxidizing agents<br>Self-reactive substances and mixtures<br>Organic peroxides<br>Explosives<br>Gases   |   |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

| Components  | CAS-No.  | Value type<br>(Form of<br>exposure) | Control parame-<br>ters / Permissible<br>concentration | Basis                     |
|-------------|----------|-------------------------------------|--|---------------------------|
| Altrenogest | 850-52-2 | TWA                                 | 1 µg/m <sup>3</sup> (OEB 4)                            | Internal                  |
|             |          | Further information: Skin           |  |                           |
|             |          |                                     | Wipe limit   | 10 µg/100 cm <sup>2</sup> |
|             |          |                                     |  | Internal                  |

**Engineering measures** : The information below is intended for larger pilot/commercial-scale operations and manufacturing. For smaller scale, clinical, or pharmacy settings, site-specific internal risk assessment practices should be conducted to determine appropriate exposure control measures. The health hazard

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risks of handling this material are dependent on multiple factors, including but not limited to physical form and quantity handled. If applicable, use process enclosures, local exhaust ventilation (e.g., Biosafety Cabinet, Ventilated Balance Enclosures), or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels as low as reasonably achievable.

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Essentially no open handling permitted.

Use closed processing systems or containment technologies. If handled in a laboratory, use a properly designed biosafety cabinet, fume hood, or other containment device if the potential exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.

### 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              | : Combined particulates and organic vapor type   |
| Hand protection          |  |
| Material                 | : Chemical-resistant gloves  |
| Remarks                  | : Consider double gloving.   |
| Eye 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. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.                    |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                              |                     |
|------------------------------|---------------------|
| Appearance                   | : liquid            |
| Color                        | : No data available |
| Odor                         | : odorless          |
| Odor Threshold               | : No data available |
| pH                           | : No data available |
| Melting point/freezing point | : No data available |

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|  |  |
|--|--|
| 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  |
| 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  |
| Relative 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, kinematic                             | : No data available  |
| Explosive properties                             | : Not explosive  |
| Oxidizing properties                             | : The substance or mixture is not classified as oxidizing. |
| Molecular weight                                 | : No data available  |
| 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. |

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Conditions to avoid : None known.  
Incompatible materials : Oxidizing agents  
Hazardous decomposition products : No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

#### 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

##### **Altrenogest:**

Acute oral toxicity : LD50 (Rat): 177 mg/kg  
LD50 (Dog): 400 mg/kg

#### **Skin corrosion/irritation**

Not classified based on available information.

#### Components:

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

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

#### **Serious eye damage/eye irritation**

Not classified based on available information.

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### Components:

#### **Benzyl alcohol:**

|         |   |  |
|---------|---|--|
| Species | : | Rabbit                                       |
| Result  | : | Irritation to eyes, reversing within 21 days |
| Method  | : | OECD Test Guideline 405                      |

#### **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 |

#### **Germ cell mutagenicity**

Not classified based on available information.

### Components:

#### **Benzyl alcohol:**

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

#### **Altrenogest:**

|                       |   |   |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative  |
|                       | : | Test Type: Chromosome aberration test in vitro<br>Result: negative  |
|                       | : | Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)<br>Result: negative |

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### 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                |

#### Reproductive toxicity

May damage fertility or the unborn child.

### Components:

#### Benzyl alcohol:

|                              |   |   |
|------------------------------|---|---|
| Effects on fertility         | : | Test Type: Fertility/early embryonic development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative<br>Remarks: Based on data from similar materials |
| Effects on fetal development | : | Test Type: Embryo-fetal development<br>Species: Mouse<br>Application Route: Ingestion<br>Result: negative   |

#### Altrenogest:

|                                    |   |   |
|------------------------------------|---|---|
| Effects on fertility               | : | Test Type: Two-generation reproduction toxicity study<br>Species: Rat<br>Application Route: Oral<br>Fertility: NOAEL: 0.016 mg/kg body weight<br>Result: Effects on fertility., No effects on mating performance. |
|                                    | : | Test Type: Fertility/early embryonic development<br>Species: Monkey, female<br>Application Route: Oral<br>Fertility: NOAEL: 0.004 mg/kg body weight   |
| 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.

#### STOT-repeated exposure

Not classified based on available information.

### Components:

#### Altrenogest:

|                    |   |      |
|--------------------|---|------|
| Routes of exposure | : | Oral |
|--------------------|---|------|

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|                                     |  |
|-------------------------------------|--|
| Target Organs<br>Assessment         | : Immune system, Adrenal gland<br>: May cause damage to organs through prolonged or repeated exposure. |
| Routes of exposure<br>Target Organs | : Oral<br>: Pituitary gland  |

## 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     |

## Altrenogest:

|                   |   |  |
|-------------------|---|--|
| Species           | : | Rat  |
| NOAEL             | : | 0.06 mg/kg   |
| Application Route | : | Oral   |
| Exposure time     | : | 13 Weeks   |
| Target Organs     | : | Immune system, male reproductive organs, female reproductive organs, Adrenal gland |
| Remarks           | : | Effects on fertility.  |

|                   |   |  |
|-------------------|---|--|
| Species           | : | Pig  |
| NOAEL             | : | 0.004 mg/kg  |
| Application Route | : | Oral   |
| Exposure time     | : | 13 Weeks   |
| Target Organs     | : | male reproductive organs, female reproductive organs |
| Remarks           | : | Effects on fertility.                                |

|                   |   |   |
|-------------------|---|---|
| Species           | : | Pig                                       |
| NOAEL             | : | 0.002 mg/kg                               |
| Application Route | : | Oral                                      |
| Exposure time     | : | 1 y                                       |
| Target Organs     | : | male reproductive organs, Pituitary gland |
| Remarks           | : | Effects on fertility.                     |

|                   |   |  |
|-------------------|---|--|
| Species           | : | Horse  |
| LOAEL             | : | 220 mg/kg                                    |
| Application Route | : | Oral   |
| Exposure time     | : | 86 Days                                      |
| Remarks           | : | No significant adverse effects were reported |

## Aspiration toxicity

Not classified based on available information.

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### Experience with human exposure

#### Components:

##### **Altrenogest:**

|              |  |
|--------------|--|
| Inhalation   | : Symptoms: respiratory tract irritation |
| Skin contact | : Symptoms: Skin irritation              |
| Eye contact  | : Symptoms: Eye irritation               |

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

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

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

##### **Altrenogest:**

|                                     |  |
|-------------------------------------|--|
| Toxicity to fish (Chronic toxicity) | : NOEC (Danio rerio (zebra fish)): 0.0004 µg/l<br>Exposure time: 32 d<br>Method: OECD Test Guideline 210 |
|-------------------------------------|--|

### Persistence and degradability

#### Components:

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

|                  |  |
|------------------|--|
| Biodegradability | : Result: Readily biodegradable.<br>Biodegradation: 92 - 96 %<br>Exposure time: 14 d |
|------------------|--|

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### Bioaccumulative potential

#### Components:

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

Partition coefficient: n-octanol/water : log Pow: 1.05

##### **Altrenogest:**

Partition coefficient: n-octanol/water : log Pow: 3.78

### **Mobility in soil**

#### Components:

##### **Altrenogest:**

Distribution among environmental compartments : log Koc: 3.3

### **Other adverse effects**

No data available

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## 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.

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## SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

#### **UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(altrenogest)  
Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

#### **IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Altrenogest)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger) : 964

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ger aircraft)

Environmentally hazardous : yes

### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Altrenogest)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

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

Not applicable for product as supplied.

### Domestic regulation

#### NOM-002-SCT

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Altrenogest)  
Class : 9  
Packing group : III  
Labels : 9

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable  
essential chemical products and machinery for producing capsules, tablets and pills.

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

AICS : not determined  
DSL : not determined  
IECSC : not determined

## SECTION 16. OTHER INFORMATION

Revision Date : 14.04.2025  
Date format : dd.mm.yyyy

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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); EC<sub>x</sub> - Concentration associated with x% response; EL<sub>x</sub> - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErC<sub>x</sub> - 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; IC<sub>50</sub> - 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; LC<sub>50</sub> - Lethal Concentration to 50 % of a test population; LD<sub>50</sub> - 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

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.

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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