



| Version 2.9 | Revision Date: 30.09.2023 | | S Number: 679-00021 | Date of last issue: 04.04.2023 Date of first issue: 02.05.2016 | |
|----------------|-------------------------------|-------|--------------------------------|---|--|
| | | | | | |
| | | | | | |
| 1. PRODU | ICT AND COMPANY IDE | ΞΝΤ | IFICATION | | |
| Produ | uct name | : | Altrenogest (0.4%) Formulation | | |
| Manu | lfacturer or supplier's d | letai | ils | | |
| Comp | bany | : | MSD | | |
| Addre | ess | : | 50 Tuas Wes Singapore - | st Drive Singapore 638408 | |
| Telep | hone | : | +1-908-740-4 | 4000 | |
| Emer | gency telephone number | : | 65 6697 211 | 1 (24/7/365) | |
| E-ma | E-mail address | | EHSDATAS | reward@msd.com | |
| Reco | mmended use of the ch | nem | ical and restr | ictions on use | |
| | mmended use ictions on use | : | Veterinary pr Not applicab | | |
| | | | | | |
| 2. HAZAR | DS IDENTIFICATION | | | | |

| GHS Classification Reproductive toxicity | : | Category 1B |
|---|---|---|
| Long-term (chronic) aquatic hazard | : | Category 1 |
| GHS label elements Hazard pictograms | : | |
| Signal word | : | Danger |
| Hazard statements | : | H360 May damage fertility or the unborn child. H410 Very toxic to aquatic life with long lasting effects. |
| Precautionary statements | : | Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protec- tion/ face protection. |





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Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

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

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) |
|---------------|----------|-----------------------|
| altrenogest | 850-52-2 | >= 0.3 -< 1 |

4. FIRST AID MEASURES

| General advice | : | In the case of accident or if you feel unwell, seek medical ad- vice 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. Thoroughly clean shoes before reuse. |
| In case of eye contact | : | |
| If swallowed | : | |
| Most important symptoms and effects, both acute and delayed | : | 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. |



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5. FIREFIGHTING MEASURES

| Suitable extinguishing media Unsuitable extinguishing | | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical None known. |
|--|---|---|
| media | • | |
| Specific hazards during fire- fighting | : | Exposure to combustion products may be a hazard to health. |
| Hazardous combustion prod- ucts | : | Carbon oxides |
| Specific extinguishing meth- ods | : | Use extinguishing measures that are appropriate to local cir- cumstances 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. |

6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- : tive equipment and emer- gency procedures | Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective 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- 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 absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

7. HANDLING AND STORAGE



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| | | | | | | | | | |
| Тес | Technical measures | | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. | | | | | | |
| Loc | Local/Total ventilation | | If sufficient ventilation is unavailable, use with local exhaust ventilation. | | | | | | |
| | Advice on safe handling | | Do not swallow. Avoid contact with Handle in accorda practice, based of sessment Keep container tig | apours or spray mist. In eyes. ance with good industrial hygiene and safety In the results of the workplace exposure as- | | | | | |
| Cor | nditions for safe storage | | Store locked up. Keep tightly close | abelled containers. d. ce with the particular national regulations. | | | | | |
| Mat | erials to avoid | : | | the following product types: | | | | | |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|-------------|---------------------------|-------------------------------------|--|----------|
| altrenogest | 850-52-2 | TWA | 1 µg/m3 (OEB 4) | Internal |
| | Further information: Skin | | | |
| | | Wipe limit | 10 µg/100 cm ² | Internal |

| Engineering measures : | 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 poten- tial 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 expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. |
|--------------------------------|---|--|
| Filter type Hand protection | : | Particulates type |
| Material | : | Chemical-resistant gloves |



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| | | | |
| Remarks Eye protection | | If the work env mists or aeroso Wear a facesh | le gloving. asses with side shields or goggles. ironment or activity involves dusty conditions, ols, wear the appropriate goggles. ield or other full face protection if there is a rect contact to the face with dusts, mists, or |
| Skin and body protection | | Additional body task being perf posable suits) | or laboratory coat. y garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. te degowning techniques to remove potentially clothing. |
| Hygiene measures | | : If exposure to e eye flushing sy ing place. When using do Wash contamin The effective o engineering co appropriate de industrial hygie | chemical is likely during typical use, provide vstems and safety showers close to the work- o not eat, drink or smoke. nated clothing before re-use. operation of a facility should include review of introls, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | liquid |
|---|---|-------------------|
| Colour | : | No data available |
| Odour | : | No data available |
| Odour Threshold | : | No data available |
| рН | : | 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 |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower | : | No data available |



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| | | | | |
| flamma | ability limit | | | |
| Vapou | r pressure | : | No data available | 9 |
| Relativ | e vapour density | : | No data available | 9 |
| Relativ | e density | : | No data available | 9 |
| Densit | у | : | No data available | 9 |
| | lity(ies) ter solubility | : | No data available | e |
| | on coefficient: n- I/water | : | No data available | 9 |
| | gnition temperature | : | No data available | Э |
| Decom | nposition temperature | : | No data available | 9 |
| Viscos Vis | ity cosity, kinematic | : | No data available | 9 |
| Explos | ive properties | : | Not explosive | |
| Oxidizi | ng properties | : | The substance o | r mixture is not classified as oxidizing. |
| Molecu | ular weight | : | No data available | 9 |
| Particle | e size | : | No data available | 9 |
| | | | | |

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.



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| Prod Acute | <u>uct:</u> e oral toxicity | | / estimate: > 2,000 mg/kg culation method |
| <u>Com</u> | ponents: | | |
| | nogest: e oral toxicity | : LD50 (Rat): LD50 (Dog): | |
| - | corrosion/irritation | vailable information. | |
| | bus eye damage/eye lassified based on av | | |
| Resp | iratory or skin sens | sitisation | |
| Not c | sensitisation lassified based on av | | |
| - | iratory sensitisatio lassified based on av | | |
| | n cell mutagenicity lassified based on av | vailable information. | |
| <u>Com</u> | ponents: | | |
| altre | nogest: | | |
| Genc | toxicity in vitro | : Test Type: B Result: nega | acterial reverse mutation assay (AMES) tive |
| | | Test Type: C Result: nega | hromosome aberration test in vitro tive |
| | | | NA damage and repair, unscheduled DNA syr nmalian cells (in vitro) tive |
| Not c | i nogenicity lassified based on av | vailable information. | |
| - | oductive toxicity damage fertility or the | e unborn child. | |
| | ponents: | | |
| altre | nogest: | | |
| | ts on fertility | · Test Type· T | wo-generation reproduction toxicity study |





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| | | | | |
| | | | | |
| | | | Application Rout | e: Oral 0.016 mg/kg body weight |
| | | | | n fertility, No effects on mating performance |
| | | | Test Type: Fertil | ity/early embryonic development |
| | | | Species: Monkey | , female |
| | | | Application Rout | |
| | | | Fertility: NOAEL | 0.004 mg/kg body weight |
| Repro sessr | oductive toxicity - As- ment | : | | of adverse effects on sexual function and fertil- velopment, based on animal experiments |
| STOT | C cingle expective | | | |
| | Γ - single exposure lassified based on avai | lahla i | nformation | |
| | | Ianie I | | |
| | F - repeated exposure | | | |
| | lassified based on avai | iable i | nformation. | |
| Com | ponents: | | | |
| altrei | nogest: | | | |
| | sure routes | : | Oral | |
| - | et Organs ssment | : | Immune system, | |
| ASSE | SSMEII | • | exposure. | age to organs through prolonged or repeated |
| _ | | | | |
| | sure routes et Organs | ÷ | Oral Pituitary gland | |
| raige | organs | · | r hundry gland | |
| Repe | eated dose toxicity | | | |
| Com | ponents: | | | |
| altrei | nogest: | | | |
| Spec | ies | : | Rat | |
| NOA | | : | 0.06 mg/kg | |
| | cation Route sure time | ÷ | Oral 13 Weeks | |
| | et Organs | ÷ | | male reproductive organs, female reproduc- |
| • | - | | tive organs, Adre | enal gland |
| Rema | arks | : | Effects on fertility | / |
| Spec | ies | : | Pig | |
| NOA | EL | : | 0.004 mg/kg | |
| | cation Route | : | Oral | |
| | sure time et Organs | : | 13 Weeks | e organs, female reproductive organs |
| Rema | | : | Effects on fertility | |
| Shee | ioo | | Dia | |
| Spec NOAI | | | Pig 0.002 mg/kg | |
| | cation Route | : | Oral | |
| | | | | |



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| | | | | |
| | sure time et Organs arks | : | 1 yr male reproduc Effects on ferti | tive organs, Pituitary gland lity |
| Species LOAEL Application Route Exposure time Remarks | | | Horse 220 mg/kg Oral 86 Days No significant a | adverse effects were reported |
| - | ration toxicity | | | |
| | lassified based on ava rience with human ex | | | |
| - | ponents: | ,post | | |
| | nogest: | | | |
| Inhala Skin (| ation contact | : | Symptoms: res Symptoms: Sk Symptoms: Ey | |
| Eye c | | • | , , , | |
| | | ON | | |
| . ECOL | | ON | | |
| ECOL | OGICAL INFORMATIO | ON | | |
| ECOL Ecoto | OGICAL INFORMATIO | ON | | |
| ECOL Ecoto <u>Com</u> altrer | OGICAL INFORMATIO | | NOEC (Danio Exposure time | rerio (zebra fish)): 0.0004 µg/l |
| Ecoto Ecoto <u>Com</u> altrer Toxic icity) | OGICAL INFORMATIOn oxicity ponents: nogest: ity to fish (Chronic tox- ctor (Chronic aquatic | - : | NOEC (Danio Exposure time | rerio (zebra fish)): 0.0004 µg/l : 32 d |
| Ecoto Com altrer Toxic icity) M-Fa toxici Persi | OGICAL INFORMATIOn oxicity ponents: nogest: ity to fish (Chronic tox- ctor (Chronic aquatic | - : | NOEC (Danio Exposure time Method: OECE | rerio (zebra fish)): 0.0004 µg/l : 32 d |
| Ecoto Ecoto Comp altrer Toxic icity) M-Fa toxici Persi No da | OGICAL INFORMATIO oxicity ponents: nogest: ity to fish (Chronic tox- ctor (Chronic aquatic ty) istence and degradab | - : : pility | NOEC (Danio Exposure time Method: OECE | rerio (zebra fish)): 0.0004 µg/l : 32 d |
| Ecoto Ecoto Comp altrer Toxic icity) M-Fa toxici No da Bioad | OGICAL INFORMATION oxicity ponents: nogest: ity to fish (Chronic tox- ctor (Chronic aquatic ty) istence and degradab ata available | - : : pility | NOEC (Danio Exposure time Method: OECE | rerio (zebra fish)): 0.0004 µg/l : 32 d |
| Ecoto Com altrer Toxic icity) M-Fa toxici Persi No da Bioad Com altrer Partit | OGICAL INFORMATION oxicity ponents: nogest: ity to fish (Chronic tox- ctor (Chronic aquatic ty) istence and degradable ata available ccumulative potential | - : : pility | NOEC (Danio Exposure time Method: OECE | rerio (zebra fish)): 0.0004 µg/l : 32 d |
| ECOL Ecoto Com altrer Toxic icity) M-Fa toxici Persi No da Bioad Com altrer Partit octan | OGICAL INFORMATION oxicity ponents: nogest: ity to fish (Chronic tox- ctor (Chronic aquatic ty) istence and degradable ata available ccumulative potential ponents: nogest: ion coefficient: n- | - : : pility I | NOEC (Danio Exposure time Method: OECE 100,000 | rerio (zebra fish)): 0.0004 µg/l : 32 d |
| ECOL Ecoto Com altrer Toxic icity) M-Fa toxici Persi No da Bioad Com altrer Partit octan Mobi | OGICAL INFORMATION oxicity ponents: nogest: ity to fish (Chronic tox- ctor (Chronic aquatic ty) istence and degradable ata available ccumulative potential ponents: nogest: ion coefficient: n- iol/water | - : : pility I | NOEC (Danio Exposure time Method: OECE 100,000 | rerio (zebra fish)): 0.0004 µg/l : 32 d |
| ECOL Ecoto Com altrer Toxic icity) M-Fa toxici Persi No da Bioad Com altrer Partit octan Mobi <u>Com</u> altrer Distri | OGICAL INFORMATION oxicity ponents: nogest: ity to fish (Chronic tox- ctor (Chronic aquatic ty) istence and degradable ccumulative potential ponents: ion coefficient: n- iol/water lity in soil | - : pility I | NOEC (Danio Exposure time Method: OECE 100,000 | rerio (zebra fish)): 0.0004 µg/l : 32 d |



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| | | | | |
| Other | r adverse effects | | | |
| | ata available | | | |
| 3. DISPC | SAL CONSIDERATION | NS | | |
| Dispo | osal methods | | | |
| Waste | e from residues | : | | e of waste into sewer. Iccordance with local regulations. |
| Conta | aminated packaging | ted packaging : Empt dling | | ers should be taken to an approved waste han- cycling or disposal. e specified: Dispose of as unused product. |
| 4. TRAN | SPORT INFORMATION | I | | |
| Interr | national Regulations | | | |
| UNR | ſDG | | | |
| UN ni | umber | : | UN 3082 | |
| | er shipping name | : | N.O.S. (altrenogest) | ITALLY HAZARDOUS SUBSTANCE, LIQUID, |
| Class | | : | 9 | |
| | ng group | : | III | |
| Label | | : | 9 | |
| Enviro | onmentally hazardous | : | yes | |
| IATA | - | | | |
| UN/IE | | : | UN 3082 | |
| Prope | er shipping name | : | Environmental (altrenogest) | ly hazardous substance, liquid, n.o.s. |
| Class | | : | 9 | |
| | ng group | : | | |
| | ng instruction (cargo | : | Miscellaneous 964 | |
| | ng instruction (passen- | : | 964 | |
| | rcraft) onmentally hazardous | : | yes | |
| IMDG | -Code | | | |
| | umber | : | UN 3082 | |
| Prope | er shipping name | : | ENVIRONMEN N.O.S. (altrenogest) | ITALLY HAZARDOUS SUBSTANCE, LIQUID, |
| Class | ; | : | 9 | |
| | ng group | : | III | |
| Label | | : | 9 | |
| EmS | | : | F-A, S-F | |
| iviarin | e pollutant | | yes | |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.



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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.

15. REGULATORY INFORMATION

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

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

| Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations | : | Not applicable | |
|--|---|----------------|--|
| Fire Safety (Petroleum and Flammable Materials) | : | Not applicable | |

Regulations

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

| AICS | : not determined |
|-------|------------------|
| DSL | : not determined |
| IECSC | : not determined |

16. OTHER INFORMATION

| Revision Date | : | 30.09.2023 |
|---|---|---|
| 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 Agen- cy, http://echa.europa.eu/ |
| Date format | : | dd.mm.yyyy |

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

SAFETY DATA SHEET



Altrenogest (0.4%) Formulation

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- 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.

SG / EN