according to Regulation (EC) No. 1907/2006



## **Etonogestrel Formulation (Nexplanon)**

| Version | Revision Date: | SDS Number: | Date of last issue: 10.10.2020  |
|---------|----------------|-------------|---------------------------------|
| 2.5     | 09.04.2021     | 16625-00020 | Date of first issue: 29.09.2014 |

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

#### 1.1 Product identifier

| Trade name   | : | Etonogestrel Formulation (Nexplanon) |
|--------------|---|--------------------------------------|
| Product code | : | NEXPLANON                            |

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

| Use of the Sub- | : Pharmaceutical |
|-----------------|------------------|
| stance/Mixture  |                  |

#### 1.3 Details of the supplier of the safety data sheet

| Company   | : | Organon & Co.<br>Shotton Lane<br>NE23 3JU Cramlington NU - Great Britain |
|---|---|--|
| Telephone   | : | 44 1 670 59 30 00  |
| E-mail address of person<br>responsible for the SDS | : | EHSSTEWARD@organon.com   |

#### **1.4 Emergency telephone number**

215-631-6999

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 1A Long-term (chronic) aquatic hazard, Category 1 H360F: May damage fertility. H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

| Hazard pictograms :      |   |   |
|--------------------------|---|---|
| Signal word              | : | Danger  |
| Hazard statements        | : | H360F May damage fertility.<br>H410 Very toxic to aquatic life with long lasting effects.   |
| Precautionary statements | : | Prevention:P201Obtain special instructions before use.P273Avoid release to the environment. |

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|         |                |             |                                 |

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

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

#### Storage:

P405 Store locked up.

#### Hazardous components which must be listed on the label:

(17a)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4-en-20-yn-3-one

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

May form explosive dust-air mixture during processing, handling or other means.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Components

| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification   | Concentration<br>(% w/w) |
|--|---|--|--------------------------|
| (17α)-13-Ethyl-17-hydroxy-11-<br>methylene-18,19-dinorpregn-4-en-<br>20-yn-3-one | 54048-10-1<br>258-936-2                               | Repr. 1A; H360F<br>Aquatic Chronic 1;<br>H410<br>M-Factor (Chronic<br>aquatic toxicity):<br>10,000 | >= 30 - < 50             |
| Substances with a workplace expos  | sure limit :  |  |                          |
| Barium sulfate   | 7727-43-7<br>231-784-4                                |  | >= 10 - < 20             |

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice

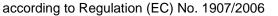
: In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical advice.

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|---|----------------------------|------------------------------|--|---|---|--|
| F   | Protection of first-aiders |                              | and use the rec  |   | ders should pay attention to self-protection,<br>ommended personal protective equipment<br>ial for exposure exists (see section 8). |  |
| lf  | f inhale                   | d                            | :  | If inhaled, remove<br>Get medical atten   |   |  |
| In case of skin contact   |                            | :                            | of water.<br>Remove contamir<br>Get medical atten<br>Wash clothing bet |   |   |  |
| Ir  | n case                     | of eye contact               | :  | If in eyes, rinse w<br>Get medical atten  | ell with water.<br>tion if irritation develops and persists.  |  |
| lf  | If swallowed               |                              | :  | If swallowed, DO NOT induce vomiting.<br>Get medical attention.<br>Rinse mouth thoroughly with water. |   |  |
|   | <b>ost im</b><br>Risks     | portant symptoms ar          | nd e<br>:  | f <b>fects, both acute</b><br>May damage ferti  | -   |  |
|   |                            |                              |  | the skin.   | can cause mechanical irritation or drying of the eyes can lead to mechanical irritation.  |  |
|   | <b>dicatic</b><br>reatme   | -                            | mec  |   | I special treatment needed cally and supportively.  |  |
|   |                            | 5: Firefighting meas         | sur  |   |   |  |
|   |                            | shing media                  |  |   |   |  |
|   | -                          | e extinguishing media        | :  | Water spray<br>Alcohol-resistant f<br>Carbon dioxide (C<br>Dry chemical                               |   |  |
|   | Jnsuita<br>nedia           | ble extinguishing            | :  | : None known.   |   |  |
| 5.2 Sp  | pecial                     | hazards arising from         | the  | substance or mix  | xture   |  |
|   | Specific<br>ighting        | hazards during fire-         | :  | Exposure to comb  | pustion products may be a hazard to health.   |  |
| Hazardous combustion prod- : Metal oxides<br>ucts Sulphur oxides<br>Carbon oxides |                            |                              |  |   |   |  |





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|----------------|--|---|--|---|
| 5 3 Advice     | for firefighters                                 |   |  |   |
|                | -  |   | In the avent of fire   | wear calf contained breathing apparatus   |
|                | Special protective equipment<br>for firefighters |   |  | <ul> <li>e, wear self-contained breathing apparatus.</li> <li>tective equipment.</li> </ul> |
| Specifi<br>ods | Specific extinguishing meth-<br>ods              |   | <ul> <li>Use extinguishing measures that are appropriate to local of<br/>cumstances and the surrounding environment.</li> <li>Use water spray to cool unopened containers.</li> <li>Remove undamaged containers from fire area if it is safe to<br/>so.</li> <li>Evacuate area.</li> </ul> |   |

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions          | : | Use personal protective equipment.<br>Follow safe handling advice (see section 7) and personal pro-<br>tective equipment recommendations (see section 8).  |
|-------------------------------|---|--|
| 6.2 Environmental precautions |   |  |
| Environmental precautions     | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages<br>cannot be contained. |
|                               |   |  |

#### 6.3 Methods and material for containment and cleaning up

:

| Methods for cleaning up | <ul> <li>Sweep up or vacuum up spillage and collect in suitable con-<br/>tainer for disposal.</li> </ul>   |
|-------------------------|--|
|                         | Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).   |
|                         | Dust deposits should not be allowed to accumulate on surfac-<br>es, as these may form an explosive mixture if they are re-<br>leased into the atmosphere in sufficient concentration.        |
|                         | Local or national regulations may apply to releases and dis-<br>posal of this material, as well as those materials and items<br>employed in the cleanup of releases. You will need to deter- |
|                         | mine which regulations are applicable.<br>Sections 13 and 15 of this SDS provide information regarding<br>certain local or national requirements.  |

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Technical measures

Static electricity may accumulate and ignite suspended dust causing an explosion.

Provide adequate precautions, such as electrical grounding

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|--|--|-----|--|--|
| Local/Total ventilation<br>Advice on safe handling<br>Hygiene measures |  | : : | If sufficient ventila<br>ventilation.<br>Do not get on skin<br>Do not breathe du<br>Do not breathe du<br>Do not breathe va<br>Do not swallow.<br>Avoid contact with<br>Handle in accorda<br>practice, based o<br>sessment<br>Keep container tig<br>Minimize dust get<br>Keep away from<br>Take precautiona<br>Take precautiona<br>Take care to prev<br>environment.<br>If exposure to che<br>flushing systems<br>place. When usin<br>nated clothing be | ust.<br>apours.<br>In eyes.<br>ance with good industrial hygiene and safety<br>in the results of the workplace exposure as-<br>ghtly closed.<br>Ineration and accumulation.<br>losed when not in use.<br>Ineat and sources of ignition.<br>Iry measures against static discharges.<br>Yent spills, waste and minimize release to the<br>emical is likely during typical use, provide eye<br>and safety showers close to the working<br>g do not eat, drink or smoke. Wash contami- |
|  |  |     | appropriate dego   | ols, proper personal protective equipment,<br>wning and decontamination procedures,<br>monitoring, medical surveillance and the<br>tive controls.  |
| 7.2 Cond   | litions for safe storage,                  | inc | luding any incom   | patibilities   |
|  | uirements for storage<br>is and containers | :   |  | labelled containers. Store locked up. Keep<br>ore in accordance with the particular national   |
| Adv  | ice on common storage                      | :   | Do not store with<br>Strong oxidizing a<br>Organic peroxide<br>Explosives<br>Gases   |  |
| -  | ific end use(s)                            |     | No doto essellativ   |  |
| Spe  | cific use(s)                               | :   | No data available  |  |

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

| Components  | CAS-No.    | Value type (Form of exposure) | Control parameters | Basis    |
|---|------------|-------------------------------|--------------------|----------|
| (17α)-13-Ethyl-17-<br>hydroxy-11-<br>methylene-18,19- | 54048-10-1 | TWA                           | 0.05 μg/m3 (OEB 5) | Internal |

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| dinorpregn-4-en-<br>20-yn-3-one |  |  |  |   |  |  |
|---------------------------------|--|--|--|---|--|--|
|                                 |  | Wipe limit   | 0.5 µg/100 cm <sup>2</sup>   | Internal  |  |  |
| Barium sulfate                  | 7727-43-7  | TWA (inhalable dust)   | 10 mg/m3   | GB EH40   |  |  |
|                                 | Further information: For the purposes of these limits, respirable dust and in-<br>halable dust are those fractions of airborne dust which will be collected when<br>sampling is undertaken in accordance with the methods described in<br>MDHS14/4 General methods for sampling and gravimetric analysis or respira-<br>ble, thoracic and inhalable aerosols., The COSHH definition of a substance<br>hazardous to health includes dust of any kind when present at a concentration<br>in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4<br>mg.m-3 8-hour TWA of respirable dust. This means that any dust will be sub-<br>ject to COSHH if people are exposed to dust above these levels. Some dusts<br>have been assigned specific WELs and exposure to these must comply with<br>the appropriate limits., Most industrial dusts contain particles of a wide range<br>of sizes. The behaviour, deposition and fate of any particular particle after<br>entry into the human respiratory system, and the body response that it elicits,<br>depend on the nature and size of the particle. HSE distinguishes two size<br>fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhala-<br>ble dust approximates to the fraction of airborne material that enters the nose<br>and mouth during breathing and is therefore available for deposition in the<br>respiratory tract. Respirable dust approximates to the fraction that penetrates<br>to the gas exchange region of the lung. Fuller definitions and explanatory<br>material are given in MDHS14/4., Where dusts contain components that have<br>their own assigned WEL, all the relevant limits should be complied with., |  |  |   |  |  |
|                                 | long-term exp  | osure limit should be<br>TWA (Respirable<br>dust)  | e used.<br>4 mg/m3   | GB EH40   |  |  |
|                                 | halable dust a<br>sampling is ur<br>MDHS14/4 Ge<br>ble, thoracic a<br>hazardous to<br>in air equal to<br>mg.m-3 8-hou<br>ject to COSHF<br>have been as<br>the appropriat<br>of sizes. The I<br>entry into the<br>depend on the<br>fractions for lin<br>ble dust appro-<br>and mouth du<br>respiratory tra<br>to the gas exc<br>material are g<br>their own assi  | hation: For the purpo<br>are those fractions of<br>indertaken in accorda<br>eneral methods for s<br>and inhalable aeroso<br>health includes dust<br>or greater than 10 n<br>ir TWA of respirable<br>H if people are exposision<br>signed specific WEL<br>te limits., Most indus<br>behaviour, deposition<br>human respiratory s<br>e nature and size of<br>mit-setting purposes<br>oximates to the fraction<br>ring breathing and is<br>act. Respirable dust a<br>change region of the<br>iven in MDHS14/4., | ses of these limits, respi<br>airborne dust which will<br>ance with the methods de<br>ampling and gravimetric<br>ls., The COSHH definition<br>of any kind when preser<br>ng.m-3 8-hour TWA of in<br>dust. This means that ar<br>sed to dust above these<br>s and exposure to these<br>trial dusts contain particul<br>ystem, and the body resp<br>the particle. HSE disting<br>termed 'inhalable' and 'r<br>on of airborne material the<br>s therefore available for of<br>approximates to the fract<br>lung. Fuller definitions a<br>Where dusts contain cor- | be collected wh<br>escribed in<br>analysis or resp<br>on of a substance<br>that a concentra-<br>halable dust or<br>hy dust will be su<br>levels. Some du<br>must comply wi<br>es of a wide ran<br>lar particle after<br>ponse that it elic<br>uishes two size<br>respirable'., Inha<br>hat enters the no<br>deposition in the<br>ion that penetra<br>nd explanatory<br>mponents that has<br>complied with., |  |  |



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|-------------|--------------------------------|-------------------------------|-----------|--|
|             |                                |                               | (Barium)  |  |
| ſ           |                                | Further information: In       | ndicative |  |

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use   | Exposure routes | Potential health ef-<br>fects | Value                 |
|----------------|-----------|-----------------|-------------------------------|-----------------------|
| Barium sulfate | Workers   | Inhalation      | Long-term local ef-<br>fects  | 10 mg/m3              |
|                | Workers   | Inhalation      | Long-term systemic<br>effects | 10 mg/m3              |
|                | Consumers | Inhalation      | Long-term systemic<br>effects | 10 mg/m3              |
|                | Consumers | Ingestion       | Long-term systemic<br>effects | 13000 mg/kg<br>bw/day |

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value                            |
|----------------|---------------------------|----------------------------------|
| Barium sulfate | Fresh water               | 0.115 mg/l                       |
|                | Sewage treatment plant    | 62.2 mg/l                        |
|                | Fresh water sediment      | 600.4 mg/kg dry<br>weight (d.w.) |
|                | Soil                      | 207.7 mg/kg dry<br>weight (d.w.) |

#### 8.2 Exposure controls

#### **Engineering measures**

Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace.

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

No open handling permitted.

Totally enclosed processes and materials transport systems are required.

Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace.

#### Personal protective equipment

| Eye protection                      | : | Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions,<br>mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a<br>potential for direct contact to the face with dusts, mists, or<br>aerosols.            |
|-------------------------------------|---|--|
| Hand protection                     |   |  |
| Material                            | : | Chemical-resistant gloves  |
| Remarks<br>Skin and body protection | : | Consider double gloving.<br>Work uniform or laboratory coat.<br>Additional body garments should be used based upon the<br>task being performed (e.g., sleevelets, apron, gauntlets, dis-<br>posable suits) to avoid exposed skin surfaces.<br>Use appropriate degowning techniques to remove potentially<br>contaminated clothing. |

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|----------------|---------------------------|------------------------------|---|
| Respi          | ratory protection         | sure assessme<br>ommended gu | al exhaust ventilation is not available or expo-<br>ent demonstrates exposures outside the rec-<br>idelines, use respiratory protection.<br>puld conform to BS EN 143 |
|                | 920                       |                              |   |

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

| Appearance<br>Colour<br>Odour<br>Odour Threshold   | : : : | Solid form<br>No data available<br>No data available<br>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)  | :     | May form explosive dust-air mixture during processing, han-<br>dling or other means. |
| Flammability (liquids)   | :     | No data available  |
| Upper explosion limit / Upper<br>flammability limit  | :     | No data available  |
| Lower explosion limit / Lower<br>flammability limit  | :     | No data available  |
| Vapour pressure  | :     | No data available  |
| Relative vapour density  | :     | No data available  |
| Relative density   | :     | No data available  |
| Density  | :     | 1 g/cm <sup>3</sup>  |
| Solubility(ies)<br>Water solubility<br>Partition coefficient: n-<br>octanol/water<br>Auto-ignition temperature | :     | No data available<br>No data available<br>No data available                          |
| Decomposition temperature  |       | No data available  |
| Viscosity<br>Viscosity, dynamic  | :     | No data available  |

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|---|------------------------------|----------------------------|--|---|--|
| Vi  | scosity, kinematic           | :                          | No data available  | 9   |  |
| Explosive properties                      |                              | : Not explosive            |  |   |  |
| Oxidizing properties                      |                              | :                          | : The substance or mixture is not classified as oxidizing. |   |  |
| 9.2 Other information<br>Molecular weight |                              | :                          | No data available  | e   |  |
| Partic                                    | cle size                     | : No data available        |  |   |  |

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

| Hazardous reactions         | : | May form explosive dust-air mixture during processing, han-<br>dling or other means.<br>Can react with strong oxidizing agents. |
|-----------------------------|---|---|
| 10.4 Conditions to avoid    |   |   |
| Conditions to avoid         | : | Heat, flames and sparks.<br>Avoid dust formation.   |
| 10.5 Incompatible materials |   |   |
| Materials to avoid          | : | Oxidizing agents  |

#### **10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

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

#### Acute toxicity

Not classified based on available information.

#### **Components:**

#### (17α)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4-en-20-yn-3-one:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

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|----------------|--|---------|------------------------------------|---|
|                |  |         | LD50 (Mouse): :                    | > 2,000 mg/kg   |
|                | ium sulfate:                                       |         |                                    |   |
| Acu            | ite oral toxicity                                  | :       | LD50 (Rat): > 5,                   | 000 mg/kg   |
|                | n corrosion/irritation<br>classified based on ava  | ailable | information.                       |   |
| <u>Co</u>      | mponents:  |         |                                    |   |
| (17)           | α)-13-Ethyl-17-hydroxy                             | y-11-m  | ethylene-18,19-0                   | dinorpregn-4-en-20-yn-3-one:                                      |
| Spe<br>Res     | ecies<br>sult                                      | :       | Mouse<br>No skin irritation        | 1   |
| Spe<br>Res     | ecies<br>sult                                      | :       | Guinea pig<br>No skin irritation   | 1   |
| Bar            | ium sulfate:                                       |         |                                    |   |
|                | ecies  | :       |                                    | uman epidermis (RhE)  |
|                | thod<br>narks                                      | :       | OECD Test Gui<br>Based on data f   | deline 439<br>rom similar materials                               |
| Res            | sult   | :       | No skin irritation                 | ı   |
|                | ious eye damage/eye<br>classified based on ava     |         |                                    |   |
| <u>Co</u>      | mponents:  |         |                                    |   |
| Bar            | ium sulfate:                                       |         |                                    |   |
| •              | ecies  | :       | Rabbit                             |   |
| Res            | thod<br>sult                                       | :       | OECD Test Gui<br>No eye irritation |   |
| Res            | spiratory or skin sensi                            | tisatio | n                                  |   |
| Ski            | n sensitisation                                    |         |                                    |   |
| Not            | classified based on ava                            | ailable | information.                       |   |
|                | spiratory sensitisation<br>classified based on ava |         | information.                       |   |
| <u>Co</u>      | mponents:  |         |                                    |   |
| Bar            | ium sulfate:                                       |         |                                    |   |
|                | st Type  | :       |                                    | de assay (LLNA)   |
|                | oosure routes<br>ecies                             | :       | Skin contact<br>Mouse              |   |
| Met            | thod   | :       | OECD Test Gui                      | deline 429  |
| Res<br>Rer     | sult<br>narks                                      | :       | negative<br>Based on data f        | rom similar materials   |
|                |  |         |                                    |   |

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|----------------|--|---|---|--|--|--|
|                | n cell mutagenicity<br>classified based on avail   | able information.                               |   |  |  |  |
| Com            | ponents:   |   |   |  |  |  |
| (17α           | )-13-Ethyl-17-hydroxy-   | 11-methylene-18,1                               | 9-dinorpregn-4-en-20-yn-3-one:  |  |  |  |
| Geno           | otoxicity in vitro   |   | verse mutation assay<br>Salmonella typhimurium<br>ive                               |  |  |  |
|                |  | Test Type: in<br>Test system:<br>Result: negati | Chinese hamster ovary cells   |  |  |  |
| Geno           | Genotoxicity in vivo : Test Type: In vivo micronucleus test<br>Species: Mouse<br>Application Route: Oral<br>Result: negative |   |   |  |  |  |
|                | n cell mutagenicity- As-<br>ment   | : Weight of evic cell mutagen.                  | Weight of evidence does not support classification as a germ cell mutagen.          |  |  |  |
| Bari           | um sulfate:  |   |   |  |  |  |
| Geno           | otoxicity in vitro   | Result: negat                                   | acterial reverse mutation assay (AMES)<br>ive<br>sed on data from similar materials |  |  |  |
|                |  | Result: negat                                   | nromosome aberration test in vitro<br>ive<br>sed on data from similar materials     |  |  |  |
|                |  | Method: OEC<br>Result: negati                   |   |  |  |  |
|                |  | Remarks: Bas                                    | sed on data from similar materials  |  |  |  |
|                | <b>inogenicity</b><br>classified based on avail  | able information.                               |   |  |  |  |
| Com            | ponents:   |   |   |  |  |  |
| (17α           | )-13-Ethyl-17-hydroxy-   | 11-methylene-18,1                               | 9-dinorpregn-4-en-20-yn-3-one:  |  |  |  |
| Spec           | cies   | : Rat   |   |  |  |  |
|                | ication Route<br>ity duration  | : Oral<br>: 2 yr                                |   |  |  |  |
|                |  | : 0.5 mg/kg boo                                 | dy weight   |  |  |  |
| Resu           | ılt  | : negative                                      |   |  |  |  |

|                   | -                        |
|-------------------|--------------------------|
| Species           | : Rat                    |
| Application Route | : Subcutaneous           |
| Activity duration | : 2 yr                   |
|                   | : 0.02 mg/kg body weight |
| Result            | : negative               |
|                   |                          |

according to Regulation (EC) No. 1907/2006



| Vers<br>2.5 | sion   | Revision Date:         SDS Number:           09.04.2021         16625-00020 |       |   | Date of last issue: 10.10.2020<br>Date of first issue: 29.09.2014  |  |
|-------------|--|---|-------|---|--|--|
|             | Carcin   | ogenicity - Assess-   |       | Weight of evi   | dence does not support classification as a car-  |  |
|             | ment   | Sychietty Assess  |       | : Weight of evidence does not support classification as<br>cinogen  |  |  |
|             | Bariun   | n sulfate:  |       |   |  |  |
|             | Species<br>Application Route<br>Exposure time<br>Result<br>Remarks |   | :     | <ul> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> <li>Based on data from similar materials</li> </ul>   |  |  |
|             | May da   | ductive toxicity<br>amage fertility.<br>onents:                             |       |   |  |  |
|             |  |   | .11-m | ethvlene-18 1   | 9-dinorpregn-4-en-20-yn-3-one:   |  |
|             | • •  | on fertility  | :     | Test Type: Fe<br>Species: Rat<br>Application R  | ertility<br>female<br>oute: Oral<br>EL: 0.012 mg/kg body weight  |  |
|             |  |   |       | Test Type: Fe<br>Species: Rab<br>Application R<br>Dose: 0.05 m<br>Result: Effect  | bit, female<br>oute: Oral<br>illigram per kilogram   |  |
|             | Effects<br>ment  | on foetal develop-  | :     | General Toxi  | female<br>ingle Treatment: 14 d<br>city Maternal: NOAEL: 1.8 mg/kg body weight<br>ratogenic effects              |  |
|             | Reproc<br>sessme   | luctive toxicity - As-<br>ent   | :     | : Positive evidence of adverse effects on sexual function and fertility from human epidemiological studies.   |  |  |
|             | Bariun   | n sulfate:  |       |   |  |  |
|             | 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 foetal develop- : ment                                  |   |       | Species: Rat<br>Application R<br>Method: OEC<br>Result: negat   | mbryo-foetal development<br>oute: Ingestion<br>D Test Guideline 414<br>ive<br>sed on data from similar materials |  |

according to Regulation (EC) No. 1907/2006



## **Etonogestrel Formulation (Nexplanon)**

| Version<br>2.5 | Revision Date: 09.04.2021                            | SDS Number:<br>16625-00020 | Date of last issue: 10.10.2020<br>Date of first issue: 29.09.2014           |
|----------------|--|----------------------------|---|
| eto-           |  |                            |   |
|                | T - single exposure<br>classified based on available | ailable information        |   |
|                |  |                            |   |
| STO            | T - repeated exposur                                 | e                          |   |
| Not c          | lassified based on av                                | ailable information.       |   |
| <u>Com</u>     | ponents:   |                            |   |
| Bariu          | um sulfate:  |                            |   |
| Asse           | ssment   | 5                          | ant health effects observed in animals at concentra-<br>) mg/kg bw or less. |
| Repe           | eated dose toxicity                                  |                            |   |
| <u>Com</u>     | ponents:   |                            |   |
| (17α)          | -13-Ethyl-17-hydrox                                  | y-11-methylene-18          | 3,19-dinorpregn-4-en-20-yn-3-one:   |
| Spec           |  | : Rat                      |   |

| stem |
|------|
|      |
|      |
|      |
|      |
|      |
|      |

#### Barium sulfate:

| ••••••            | • | Rat<br>61.1 mg/kg                               |
|-------------------|---|---|
| Application Route | : | Ingestion                                       |
| •                 |   | 90 Days<br>Based on data from similar materials |

#### Aspiration toxicity

Not classified based on available information.

#### Experience with human exposure

#### Components:

| (17α)-13-Ethyl-17-hydroxy-11-methylene-18,19-dinorpregn-4-en-20-yn-3-one: |  |  |  |
|---|--|--|--|
|   | Symptoms: Headache, Dizziness, Abdominal pain, Nausea,<br>Skin disorders, effects on menstruation, vaginitis, breast ten-<br>derness, mood swings, male reproductive effects, Sweating |  |  |

according to Regulation (EC) No. 1907/2006



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| Version | Revision Date: | SDS Number: | Date of last issue: 10.10.2020  |
|---------|----------------|-------------|---------------------------------|
| 2.5     | 09.04.2021     | 16625-00020 | Date of first issue: 29.09.2014 |

### **SECTION 12: Ecological information**

### 12.1 Toxicity

#### Components:

| (17α)-13-Ethyl-17-hydroxy-1   | 1-n | nethylene-18,19-dinorpregn-4-en-20-yn-3-one:   |
|---|-----|--|
| Toxicity to fish  |     | LC50 (Oncorhynchus mykiss (rainbow trout)): 4.0 mg/l<br>Exposure time: 96 h<br>Method: FDA 4.11  |
|   |     | LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1.3 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: No toxicity at the limit of solubility |
| Toxicity to daphnia and other aquatic invertebrates                         | :   | EC50 (Daphnia magna (Water flea)): > 3.9 mg/l<br>Exposure time: 48 h<br>Method: FDA 4.08<br>Remarks: No toxicity at the limit of solubility                            |
| Toxicity to microorganisms  | :   | NOEC : 70.8 mg/l<br>Exposure time: 3 h<br>Test Type: Respiration inhibition<br>Method: OECD Test Guideline 209   |
|   |     | EC50 : > 1,000 mg/l<br>Exposure time: 3 h<br>Test Type: Respiration inhibition<br>Method: OECD Test Guideline 209  |
| Toxicity to fish (Chronic tox-<br>icity)                                    | :   | NOEC: 0.059 mg/l<br>Exposure time: 32 d<br>Species: Pimephales promelas (fathead minnow)<br>Method: OECD Test Guideline 210  |
|   |     | NOEC: 0.0000027 mg/l<br>Exposure time: 183 d<br>Species: Oryzias latipes (Japanese medaka)<br>Method: OECD Test Guideline 229  |
| Toxicity to daphnia and other aquatic invertebrates (Chron-<br>ic toxicity) | :   | NOEC: 1.2 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)   |
| M-Factor (Chronic aquatic toxicity)   | :   | 10,000   |
| Barium sulfate:   |     |  |
| Toxicity to fish  | :   | LC50 (Danio rerio (zebra fish)): > 100 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials                 |

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|-------------|---|--|-----|---|---|
|             | Toxicity to daphnia and other aquatic invertebrates |  | :   | EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l<br>Exposure time: 48 h<br>Remarks: Based on data from similar materials  |   |
|             | Toxicity to algae/aquatic plants                    |  | :   | mg/l<br>Exposure time: 72<br>Method: OECD Te  |   |
|             |   |  |     | mg/l<br>Exposure time: 72<br>Method: OECD Te  |   |
|             | Toxicity to microorganisms                          |  | :   | EC50 : > 600 mg/<br>Exposure time: 3<br>Method: OECD Te<br>Remarks: Based of  | h   |
|             |   |  |     | NOEC : > 600 mg<br>Exposure time: 3<br>Method: OECD Te<br>Remarks: Based o  | h   |
|             | Toxicity<br>icity)                                  | to fish (Chronic tox-                                | :   | <ul> <li>NOEC: &gt; 1 mg/l</li> <li>Exposure time: 33 d</li> <li>Species: Danio rerio (zebra fish)</li> <li>Method: OECD Test Guideline 210</li> <li>Remarks: Based on data from similar materials</li> </ul> |   |
|             |   | to daphnia and other<br>invertebrates (Chron-<br>ty) | :   | <ul> <li>NOEC: &gt; 1 mg/l<br/>Exposure time: 21 d<br/>Species: Daphnia magna (Water flea)<br/>Remarks: Based on data from similar materials</li> </ul>   |   |
| 12.2        | Persist   | ence and degradabil                                  | ity |   |   |

#### Components:

| $(17\alpha) \text{-} 13\text{-} Ethyl \text{-} 17\text{-} hydroxy \text{-} 11\text{-} methylene \text{-} 18\text{,} 19\text{-} dinorpregn \text{-} 4\text{-} en \text{-} 20\text{-} yn \text{-} 3\text{-} one:$ |  |  |  |  |
|---|--|--|--|--|
| Hydrolysis: < 10 %(5 d)<br>Method: FDA 3.09   |  |  |  |  |
|   |  |  |  |  |

### 12.3 Bioaccumulative potential

**Components:** 

| (17α)-13-Ethyl-17-hydroxy-11- | methylene-18,19-dinorpregn-4-en-20-yn-3-one:   |
|-------------------------------|--|
| Bioaccumulation :             | Species: Lepomis macrochirus (Bluegill sunfish)<br>Bioconcentration factor (BCF): 128<br>Method: OECD Test Guideline 305 |

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|----------------|--|------|--|--|
|                |  |      |  |  |
|                | ion coefficient: n-<br>ol/water          | :    | log Pow: 3.5   |  |
| Bariu          | ım sulfate:                              |      |  |  |
| Bioad          | ccumulation                              | :    | : Species: Lepomis macrochirus (Bluegill sunfish)<br>Bioconcentration factor (BCF): < 500        |  |
|                | ion coefficient: n-<br>ol/water          | :    | log Pow: -1.03<br>Remarks: Calculation   |  |
| 12.4 Mob       | ility in soil                            |      |  |  |
| <u>Com</u>     | ponents:                                 |      |  |  |
| (17α)          | -13-Ethyl-17-hydroxy-                    | 11-n | nethylene-18,19-c  | linorpregn-4-en-20-yn-3-one:   |
|                | bution among environ-<br>al compartments | :    |  |  |
| 12.5 Resu      | Ilts of PBT and vPvB a                   | isse | ssment   |  |
| Prod           | uct:                                     |      |  |  |
| Asse           | ssment                                   | :    | to be either persi   | nixture contains no components considered<br>istent, bioaccumulative and toxic (PBT), or<br>nd very bioaccumulative (vPvB) at levels of  |
| 12.6 Othe      | r adverse effects                        |      |  |  |
| Prod           | uct:                                     |      |  |  |
| Endo<br>tial   | crine disrupting poten-                  | :    | ered to have end<br>REACH Article 5  | nixture does not contain components consid-<br>docrine disrupting properties according to<br>i7(f) or Commission Delegated regulation<br>or Commission Regulation (EU) 2018/605 at<br>higher.  |
| SECTIO         | N 13: Disposal consi                     | der  | ations   |  |
| 13.1 Wast      | te treatment methods                     |      |  |  |
| Prod           |  | :    | According to the<br>are not product s<br>Waste codes sho<br>discussion with t<br>Empty container | cordance with local regulations.<br>European Waste Catalogue, Waste Codes<br>specific, but application specific.<br>buld be assigned by the user, preferably in<br>he waste disposal authorities.<br>s should be taken to an approved waste han- |
|                |  |      |  | /cling or disposal.<br>specified: Dispose of as unused product.  |

### **SECTION 14: Transport information**

#### 14.1 UN number

according to Regulation (EC) No. 1907/2006



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|--|--|----------------------------|---|
|  |  |                            |   |
| ADN  |  | : UN 3077                  |   |
| ADR  |  | : UN 3077                  |   |
| RID  |  | : UN 3077                  |   |
| IMDG   |  | : UN 3077                  |   |
| ΙΑΤΑ   |  | : UN 3077                  |   |
| 14.2 UN pr   | oper shipping name                                   |                            |   |
| ADN  |  | N.O.S.                     | NTALLY HAZARDOUS SUBSTANCE, SOLID,<br>yl-17-hydroxy-11-methylene-18,19-dinorpregn-4-<br>ie)     |
| ADR  |  | N.O.S.                     | NTALLY HAZARDOUS SUBSTANCE, SOLID,<br>yl-17-hydroxy-11-methylene-18,19-dinorpregn-4-<br>ne)     |
| RID  |  | N.O.S.                     | NTALLY HAZARDOUS SUBSTANCE, SOLID,<br>yl-17-hydroxy-11-methylene-18,19-dinorpregn-4-<br>ne)     |
| IMDG   |  | N.O.S.                     | NTALLY HAZARDOUS SUBSTANCE, SOLID,<br>yl-17-hydroxy-11-methylene-18,19-dinorpregn-4-<br>ne)     |
| ΙΑΤΑ   |  |                            | lly hazardous substance, solid, n.o.s.<br>yl-17-hydroxy-11-methylene-18,19-dinorpregn-4-<br>ie) |
| 14.3 Trans   | port hazard class(es)                                |                            |   |
| ADN  |  | : 9                        |   |
| ADR  |  | : 9                        |   |
| RID  |  | : 9                        |   |
| IMDG   |  | : 9                        |   |
| ΙΑΤΑ   |  | : 9                        |   |
| 14.4 Packi   | ng group   |                            |   |
| Classii<br>Hazard<br>Labels<br><b>ADR</b><br>Packin<br>Classii<br>Hazard<br>Labels | ng group<br>fication Code<br>d Identification Number | : 9<br>: III<br>: M7       |   |

according to Regulation (EC) No. 1907/2006



## **Etonogestrel Formulation (Nexplanon)**

| Ver<br>2.5 | sion                               | Revision Date:<br>09.04.2021  | -   | DS Number:<br>625-00020             | Date of last issue: 10.10.2020<br>Date of first issue: 29.09.2014 |
|------------|------------------------------------|---|-----|-------------------------------------|---|
|            | Classif                            | g group<br>ication Code<br>I Identification Number                              | : : | III<br>M7<br>90<br>9                |   |
|            | IMDG<br>Packing<br>Labels<br>EmS C | g group<br>ode  | : : | III<br>9<br>F-A, S-F                |   |
|            | aircraft<br>Packing                | g instruction (cargo  | :   | 956<br>Y956<br>III<br>Miscellaneous |   |
|            | Packing<br>ger airc<br>Packing     | Passenger)<br>g instruction (passen-<br>craft)<br>g instruction (LQ)<br>g group | :   | 956<br>Y956<br>III<br>Miscellaneous |   |
| 14.5       | 5 Enviro                           | nmental hazards   |     |                                     |   |
|            | <b>ADN</b><br>Enviror              | nmentally hazardous   | :   | yes                                 |   |
|            | <b>ADR</b><br>Enviror              | nmentally hazardous   | :   | yes                                 |   |
|            | <b>RID</b><br>Enviror              | nmentally hazardous   | :   | yes                                 |   |
|            | <b>IMDG</b><br>Marine              | pollutant   | :   | yes                                 |   |
|            |                                    | Passenger)  | :   | yes                                 |   |
|            | <b>IATA (</b><br>Enviror           | Cargo)<br>nmentally hazardous   | :   | yes                                 |   |
| 14.6       | -                                  | al precautions for use  |     | wided berein are fo                 | n informational nurnoses only, and solely                         |

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.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture according to Regulation (EC) No. 1907/2006



## **Etonogestrel Formulation (Nexplanon)**

| Version<br>2.5 | Revision Date: 09.04.2021   | SDS Number:<br>16625-00020 |                | last issue: 10.10.2<br>first issue: 29.09.2 |                     |
|----------------|---|----------------------------|----------------|---|---------------------|
| the r          | CH - Restrictions on the<br>narket and use of certai<br>arations and articles (A                              | n dangerous substan        | 0              | Not applicable                              |                     |
| REA            | CH - Candidate List of  | Substances of Very H       | igh :          | Not applicable                              |                     |
| REA            | Concern for Authorisation (Article 59).<br>REACH - List of substances subject to authorisation<br>(Annex XIV) |                            |                |   |                     |
| Reg            | ulation (EC) No 1005/20   | 009 on substances that     | at de- :       | Not applicable                              |                     |
| Reg            | ulation (EU) 2019/1021<br>s (recast)  | pollu- :                   | Not applicable |   |                     |
| Reg<br>men     | ulation (EC) No 649/201<br>t and the Council conce<br>angerous chemicals                                      | •                          |                | Not applicable                              |                     |
| Seve           | eso III: Directive 2012/1<br>pr-accident hazards invo   |                            |                | t and of the Counci                         | l on the control of |
|                |   | 3 · · · 3 · · · · · · · ·  |                | Quantity 1                                  | Quantity 2          |

|    |               | Quantity 1 | Quantity 2 |
|----|---------------|------------|------------|
| E1 | ENVIRONMENTAL | 100 t      | 200 t      |
|    | HAZARDS       |            |            |

#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

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

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

| Other information :  | Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.  |  |
|--|---|--|
| Full text of H-Statements  |   |  |
| H360F :<br>H410 :  | May damage fertility.<br>Very toxic to aquatic life with long lasting effects.  |  |
| Full text of other abbreviation  | i   |  |
| Aquatic Chronic<br>Repr.<br>2006/15/EC<br>GB EH40<br>2006/15/EC / TWA<br>GB EH40 / TWA | Long-term (chronic) aquatic hazard<br>Reproductive toxicity<br>Europe. Indicative occupational exposure limit values<br>UK. EH40 WEL - Workplace Exposure Limits<br>Limit Value - eight hours<br>Long-term exposure limit (8-hour TWA reference period) |  |



## Etonogestrel Formulation (Nexplanon)

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|---------|----------------|-------------|---------------------------------|
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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS -Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

| Classification of the mixture: |       | Classification procedure: |
|--------------------------------|-------|---------------------------|
| Repr. 1A                       | H360F | Calculation method        |
| Aquatic Chronic 1              | H410  | Calculation method        |

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.

according to Regulation (EC) No. 1907/2006



# **Etonogestrel Formulation (Nexplanon)**

| Version | Revision Date: | SDS Number: | Date of last issue: 10.10.2020  |
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