

SAFETY DATA SHEET


According to Regulation (EC) No1272/2008

Effective date: Dec.23, 2019 Version: 00

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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| 1.1 Product identifiers |
| Product name: Prednisolone |
| Chemical name: Prednisolone |
| Product Number: P01 |
| Brand : JEK |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against |
| Identified uses: Intermediate Use Only |
| 1.3 Details of the supplier of the safety data sheet |
| Company: JIAERKE BIOTECHNOLOGY NANTONG CO.,LTD |
| Address: No.10 Haibin 2 nd Road, Coastal Economic Development Zone, Rudong Nantong , Jiangsu Prov.,226407, China |
| E-mail: ehs@jiaerke.com |
| 1.4 Emergency telephone number |
| Emergency Phone #: 0086-513-84811935 |

SECTION 2 HAZARDS IDENTIFICATION

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| 2.1 Classification of the substance or mixture |
| According to Regulation (EC) No1272/2008 |
| Acute toxicity, Oral (Category 4), H302 |
| 2.2 Label elements |
| Pictogram  |
| Signal word Warning |
| Hazard statement(s) H302 Harmful if swallowed. |
| Precautionary statement(s) Prevention P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. Response P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth. Disposal |

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| P501 Dispose of contents/ container to an approved waste disposal plant. |
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| 2.3 Other hazards |
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| None. |
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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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| 3.1 Substances |
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| Synonyms : 1-Dehydrocortisol; |
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| 1-Dehydrohydrocortisone; |
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| 1,4-Pregnadiene-11 β ,17 α ,21-triol-3,20-dione; |
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| 11 β ,17 α ,21-Trihydroxy-1,4-pregnadiene-3,20-dione |
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| Formula : C ₂₁ H ₂₈ O ₅ |
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| Molecular Weight : 360.45g/mol |
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| CAS No.: 50-24-8 |
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| EC No.: 200-021-7 |
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For the full text of the H-Statements mentioned in this Section, see Section 2.

SECTION 4 FIRST AID MEASURES

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| 4.1 Description of first aid measures |
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| General advice |
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| Consult a physician. Show this safety data sheet to the doctor in attendance. |
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| If inhaled |
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| If breathed in, move person into fresh air. If not breathing give artificial respiration |
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| Consult a physician. |
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| In case of skin contact |
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| Wash off with soap and plenty of water. Consult a physician. |
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| In case of eye contact |
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| Flush eyes with water as a precaution. |
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| If swallowed |
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| Never give anything by mouth to an unconscious person. Rinse mouth with water. |
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| Consult a physician. |
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| 4.2 Most important symptoms and effects, both acute and delayed |
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| The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11 |
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| 4.3 Indication of any immediate medical attention and special treatment needed |
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| No data available |
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SECTION 5 FIRE-FIGHTING MEASURES

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| 5.1 Extinguishing media |
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| Suitable extinguishing media |
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| Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
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| 5.2 Special hazards arising from the substance or mixture |
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| No data available. |
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| 5.3 Advice for firefighters |
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| Special protective equipment for fire-fighters |
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Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store locked up.

7.3 Specific end uses

No data available.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No data available.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection

Safety glasses with side-shields conforming to EN166.

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties****Appearance**

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| Form: | solid |
| pH: | no data available |
| Melting point: | 240°C |
| Boiling point: | no data available |
| Flash point: | no data available |
| Ignition temperature: | no data available |
| Lower explosion limit: | no data available |
| Upper explosion limit: | no data available |
| Solubility(ies): | no data available |
| | Water: insoluble |
| | Soluble: Methanol,Ethanol |
| | Slightly soluble: Acetone, Dioxane |
| | Very slightly soluble: Chloroform,Ethyl acetate |
| | Insoluble: Ether |

9.2 Other Information

None.

SECTION 10 STABILITY AND REACTIVITY**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

SECTION 11 TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

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| LD50 Oral - Rat - male - 3,857 mg/kg LD50 Oral - Rat - female - 3,879 mg/kg Inhalation: No data available Dermal: No data available |
| Skin corrosion/irritation no data available |
| Serious eye damage/eye irritation no data available |
| Respiratory or skin sensitization - Mouse Result: Does not cause skin sensitisation. (OECD Test Guideline 429) |
| Germ cell mutagenicity Ames test S. typhimurium Result: negative |
| Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| Reproductive toxicity Presumed human reproductive toxicant |
| Specific target organ toxicity - single exposure no data available |
| Specific target organ toxicity - repeated exposure no data available |
| Aspiration hazard no data available |
| Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |
| Additional Information RTECS: TU4152000 |

SECTION 12 ECOLOGICAL INFORMATION

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| 12.1 Toxicity Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - > 85 mg/l - 24 h(OECD Test Guideline 202) Toxicity to algae Growth inhibition NOEC - Pseudokirchneriella subcapitata (green algae) - 160 mg/l - 72 h(OECD Test Guideline 201) |
| 12.2 Persistence and degradability no data available |
| 12.3 Bioaccumulative potential no data available |

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| 12.4 Mobility in soil no data available |
| 12.5 Results of PBT and vPvB assessment no data available |
| 12.6 Other adverse effects no data available |

SECTION 13 DISPOSAL CONSIDERATIONS

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| 13.1 Waste treatment methods |
| Product Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. |
| Contaminated packaging Dispose of as unused product. |

SECTION 14 TRANSPORT INFORMATION

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| 14.1 UN number ADR/RID: - IMDG: - IATA: - |
| 14.2 UN proper shipping name ADR/RID/ADN: Not dangerous goods IMDG: Not dangerous goods IATA/ICAO: Not dangerous goods |
| 14.3 Transport hazard class(es) ADR/RID: - IMDG: - IATA: - |
| 14.4 Packaging group ADR/RID:- IMDG: - IATA:- |
| 14.5 Environmental hazards ADR/RID/ADN: No IMDG: No IATA/ICAO: No |
| 14.6 Special precautions for user no data available |

SECTION 15 REGULATORY INFORMATION

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| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture |
| This safety datasheet complies with the requirements of Regulation (EC) No. 1272/2008. |
| SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

SECTION 16 OTHER INFORMATION**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. JIAERKE BIOTECHNOLOGY NANTONG CO.,LTD, shall not be held liable for any damage resulting from handling or from contact with the above product.