Sigma-Aldrich

Material Safety Data Sheet

Section 1 - Product and Company Information

Product Name: Corticosterone, minimum 99%
Product Number: C2505
Brand: Sigma Chemical
Company: Sigma-Aldrich
Street Address: 3052 Spruce Street
City, State, Zip, Country: SANT LOUIS, MO 63103 US
Technical Phone: 800-325-6532
Fax: 800-325-5052
Emergency Phone: 314-777-6555

Section 2 - Composition/Information on Ingredient

Substance Name: CORTICOSTERONE
CAS Registry No.: 50-22-6
SARA 313: No
EC No.: 200-019-5

Formula: C21H20O4

Section 3 - Hazards Identification

Emergency Overview: Inflammable. May cause sensitization by skin contact.
HMIS Rating: Flammability: 1 Reactivity: 0
NFPA Rating: Flammability: 1 Reactivity: 0
For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A
Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Firefighting Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precautions(s): Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Methods for Cleaning Up: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling: Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage: Suitable: Keep tightly closed.
Special Requirements: Light sensitive.

Section 8 - Exposure Controls / PPE

Engineering Controls: Mechanical exhaust required.
Personal Protective Equipment: Respiratory Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

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General Hygiene Measures
Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>346.47 AMU</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>BP/IP Range</td>
<td>N/A</td>
</tr>
<tr>
<td>MP/IP Range</td>
<td>179 °C</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Saturated Vapor Conc.</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>N/A</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>N/A</td>
</tr>
<tr>
<td>Volatility</td>
<td>N/A</td>
</tr>
<tr>
<td>VOC Content</td>
<td>N/A</td>
</tr>
<tr>
<td>Water Content</td>
<td>N/A</td>
</tr>
<tr>
<td>Solvent Content</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>N/A</td>
</tr>
<tr>
<td>Decomposition Temp.</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point °F</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point °C</td>
<td>N/A</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>N/A</td>
</tr>
<tr>
<td>Flammability</td>
<td>N/A</td>
</tr>
<tr>
<td>Autoignition Temp</td>
<td>N/A</td>
</tr>
<tr>
<td>Optical Rotation</td>
<td>Degree of Rotation: 271 - 203 (°/2)</td>
</tr>
<tr>
<td>Solubility</td>
<td>N/A</td>
</tr>
<tr>
<td>N/A e not available</td>
<td></td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

<table>
<thead>
<tr>
<th>Stability</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td>Stable</td>
</tr>
<tr>
<td>Stable</td>
<td>Stable</td>
</tr>
<tr>
<td>Conditions of Instability</td>
<td>Light sensitive</td>
</tr>
<tr>
<td>Light sensitive</td>
<td></td>
</tr>
<tr>
<td>Materials to Avoid</td>
<td>Oxidizing agents.</td>
</tr>
<tr>
<td>Oxidizing agents.</td>
<td></td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Carbon monoxide, Carbon dioxide.</td>
</tr>
</tbody>
</table>

Section 11 - Toxicological Information

Hazardous Polymerization
Hazardous Polymerization
Will not occur.

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Skin Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>N/A</td>
</tr>
<tr>
<td>Inhalation</td>
<td>N/A</td>
</tr>
<tr>
<td>Ingestion</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Sensitization
Skin
May cause allergic skin reactions.

Signs and Symptoms of Exposure
Exposure can cause: Nausea, dizziness, and headache.

<table>
<thead>
<tr>
<th>RTECS Number</th>
<th>GM765000D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Exposure - Carcinogen</td>
<td>Result: Some steroids show carcinogenic and teratogenic activity.</td>
</tr>
<tr>
<td>Species</td>
<td>Dose</td>
</tr>
<tr>
<td>Rat</td>
<td>14 MG/KG</td>
</tr>
<tr>
<td>Rat</td>
<td>525 MG/KG</td>
</tr>
<tr>
<td>Rat</td>
<td>500 MG/KG</td>
</tr>
<tr>
<td>Rat</td>
<td>100 MG/KG</td>
</tr>
<tr>
<td>Rat</td>
<td>40 MG/KG</td>
</tr>
<tr>
<td>Rat</td>
<td>80 MG/KG</td>
</tr>
<tr>
<td>Species</td>
<td>Dose</td>
</tr>
<tr>
<td>Human</td>
<td>2 MMOL/L</td>
</tr>
<tr>
<td>Rat</td>
<td>100 NMOL/L</td>
</tr>
<tr>
<td>Chicken</td>
<td>1600 PMOL/L</td>
</tr>
<tr>
<td>Species</td>
<td>Dose</td>
</tr>
<tr>
<td>Rat</td>
<td>2400 USG/KG</td>
</tr>
<tr>
<td>Rat</td>
<td>64 MG/KG</td>
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<tr>
<td>Species</td>
<td>Route of Application</td>
</tr>
<tr>
<td>Rat</td>
<td>11-180 PREG</td>
</tr>
<tr>
<td>Rat</td>
<td>11-180 PREG</td>
</tr>
<tr>
<td>Species</td>
<td>Route of Application</td>
</tr>
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<td>Rat</td>
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Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Contact a licensed professional waste disposal service to dispose of this material. Dispose of or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification
Symbol of Danger: X
Indication of Danger: Irritant.
Risk Statements: R: 43
May cause sensitization by skin contact.
Safety Statements: S: 36
Wear suitable protective clothing.

US Classification and Label Text
Indication of Danger: Irritant.
Risk Statements: May cause sensitization by skin contact.
Safety Statements: Wear suitable protective clothing.

United States Regulatory Information
SARA Listed: No

Canada Regulatory Information
WHIMSS Classification
This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: No
NDSL: No

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