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

Product information

Product Name: Catosal Sterile Injectable Solution
MSDS Number: 122000007152

Use: veterinary medicine

Company
BAYER HEALTHCARE LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
USA
(800) 633-3796

In case of emergency: (800) 422-9874
Chemtrec: (800) 424-9300
BAYER INFORMATION PHONE:(800) 633-3796
INTERNATIONAL:(703) 527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview


GHS Classification:

- Flammable liquids: Category 3
- Serious eye damage: Category 1

GHS Label element:

- Hazard pictograms:

- Signal word: Danger

- Hazard statements: H226 Flammable liquid and vapour.
  H318 Causes serious eye damage.
Precautionary statements:

**Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**Response:**
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**
P403 + P235 Store in a well-ventilated place. Keep cool.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Ingredients:**

<table>
<thead>
<tr>
<th>Weight percent</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 5%</td>
<td>n-butanol</td>
<td>71-36-3</td>
</tr>
</tbody>
</table>

**Other Ingredients**

<table>
<thead>
<tr>
<th>Weight percent</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td>Butafosfan</td>
<td>17316-67-5</td>
</tr>
</tbody>
</table>

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4. FIRST AID MEASURES

**General advice:** Take off all contaminated clothing immediately.

**If inhaled:** Remove to fresh air. Call a physician immediately.

**In case of skin contact:** After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If swallowed:** If swallowed, seek medical advice immediately and show this container or label.

**Contact Number:** Use the Bayer Emergency Number in Section 1
5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Fire may cause evolution of: Hydrogen cyanide (hydrocyanic acid) Oxides of phosphorus Nitrogen oxides (NOx) Carbon oxides

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Methods for cleaning up: Cover spilt product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labelled, closable containers.

Additional advice: No special precautions required.

Further Accidental Release Notes: No special precautions required.

7. HANDLING AND STORAGE

Handling:
Industrial uses: Avoid formation of aerosol. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

Storage:
Storage temperature: 86 °F (30 °C)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

n-butanol (71-36-3)
US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 20 ppm
US. NIOSH: Pocket Guide to Chemical Hazards
Ceiling Limit Value and Time Period (if specified): 50 ppm, 150 mg/m3
US. NIOSH: Pocket Guide to Chemical Hazards
Skin designation: Can be absorbed through the skin.
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
PEL: 100 ppm, 300 mg/m3

**Respiratory protection:**
Recommended Filter type: Organic vapor with prefilter

**Hand protection:**
Chemically resistant gloves.

**Eye protection:**
Safety glasses

**Other protective measures:**
Wear suitable protective equipment.
Please consult label for end-user requirements.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

- **Form:** liquid
- **Colour:** pink
- **Odour:** weak, characteristic
- **Odour Threshold:** No applicable information is available
- **Melting point:** No applicable information is available
- **Boiling point/boiling range:** 96 °C
- **Density:** 1.011 g/cm³ at 68 °F (20 °C) at 1,013 hPa
- **Bulk density:** No applicable information is available
- **Vapour pressure:** 25 hPa at 68 °F (20 °C)
- **Viscosity, dynamic:** No applicable information is available
- **Viscosity, kinematic:** No applicable information is available
- **Flow time:** No applicable information is available
- **Surface tension:** No applicable information is available
- **Miscibility with water:** in all proportions
- **Water solubility:** No applicable information is available
- **pH:** No applicable information is available
- **Relative density:** No applicable information is available
- **Partition coefficient:** No applicable information is available
- **Solubility(ies):** No applicable information is available
- **Flash point:** 132.8 °F (56 °C)

**Flammability (solid, gas):** No applicable information is available
**Ignition temperature:** No applicable information is available
**Explosion limits:** No applicable information is available
10. STABILITY AND REACTIVITY

**Conditions to avoid:** Do not allow product to come in contact with:
- Protect from frost.
- Exposure to light.

**Materials to avoid:** Oxidizing agents

**Hazardous reactions:** None known.

**Thermal decomposition:**
No data available

**Hazardous decomposition products:**
Hydrogen cyanide (hydrocyanic acid), Oxides of phosphorus, Nitrogen oxides (NOx), Carbon oxides

**Auto-flammability:** > 500 °C

**Oxidizing properties:**
No statements available.

**Impact sensitivity:**
No data available

11. TOXICOLOGICAL INFORMATION

**Other information on toxicity:**
n-butanol
Liver and kidney injuries may occur.

After absorption of large quantities Dizziness, Liver disorders, drowsiness, headaches, Weakness

**Acute oral toxicity:**
n-butanol
LD50 Rat: 790 mg/kg

**Acute inhalation toxicity:**
n-butanol
LC50 Rat: 8000 ppm, 4 h

**Acute dermal toxicity:**
n-butanol
LD50 Rabbit: 3,400 mg/kg

**Skin irritation:**
n-butanol
Rabbit
Result: Mild skin irritation
Method: OECD 404

Eye irritation:
n-butanol
Rabbit
Result: Causes serious eye damage.
Method: OECD 405

Sensitisation:
n-butanol
Skin sensitization guinea pig
Result: Did not cause sensitisation on laboratory animals.
Method: OECD 406

Genotoxicity in vitro:
n-butanol
Ames test
Result: negative
Micronucleus test
Result: negative

In vitro gene mutation study in mammalian cells  Hamster V79-cells
Result: No evidence of a genotoxic effect.
Method: OECD 476

Genotoxicity in vivo:
n-butanol
Micronucleus test, Mouse
Result: No evidence of a genotoxic effect.
Method: OECD 474

Reproductive toxicity:
n-butanol
NOAEL: 2000 ppm
Result: Animal testing did not show any effects on fertility.
Method: OECD Test Guideline 416

Carcinogenicity:
No Carcinogenic substances as defined by IARC, NTP and/or OSHA

Experience with human exposure:
**Components:**
71-36-3 :  
May cause skin irritation and/or dermatitis.

**STOT - single exposure:**
**Components:**
71-36-3 :
Assessment: May cause drowsiness or dizziness.
STOT - repeated exposure:
No data available

12. ECOLOGICAL INFORMATION

General advice:
Do not allow to enter surface waters or groundwater.

Toxicity to fish:
n-butanol
Acute Fish toxicity: LC50 1,730 mg/l
Test species: Pimephales promelas (fathead minnow) Duration of test: 96 h

Toxicity to daphnia and other aquatic invertebrates:
n-butanol
EC50 1,983 mg/l
Test species: Daphnia magna (Water flea) Duration of test: 48 h

Biodegradability:
n-butanol
98 %, 28 d rapidly biodegradable
Method: OECD 301 E

Bioaccumulation:
No data available

13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

14. TRANSPORT INFORMATION

Land transport (CFR)
non-regulated

US Sea transport (IMDG)
non-regulated

US Air transport (ICAO / IATA cargo aircraft only)
non-regulated

US Air transport (ICAO / IATA passenger and cargo aircraft)
15. REGULATORY INFORMATION

US. Toxic Substances Control Act

This product is excluded from TSCA regulation by Section 3 (2)(B)(vi) when used for FDA application.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

Components

None

SARA Section 311/312 Hazard Categories

Exempt from SARA Section 311/312

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Components

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components

n-butanol

Reportable quantity: 5000 lbs

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

Weight percent Components CAS-No.
1 - 5% n-butanol 71-36-3

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists

Weight percent Components CAS-No.
1 - 5% n-butanol 71-36-3

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

OSHA Hazcom Standard Rating

Hazardous

16. OTHER INFORMATION

NFPA 704M Rating

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>10</td>
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</table>
Reactivity | 00
---|---
Other

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

<table>
<thead>
<tr>
<th>HMIS Rating</th>
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</thead>
<tbody>
<tr>
<td>Health</td>
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<tr>
<td>Flammability</td>
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</tr>
<tr>
<td>Physical Hazard</td>
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</tr>
</tbody>
</table>

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

* = Chronic Health Hazard

Further information

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.