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

Product information

Product Name: Advantage® Treatment Shampoo for Cats and Kittens NF
MSDS Number: 122000012505

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

| Colour: yellowish | Form: liquid | Odour: Flowery |

GHS Classification:

Skin irritation : Category 2
Eye irritation : Category 2

GHS Label element:

Hazard pictograms : 

Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.
Precautionary statements:

**Prevention:**
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P391 Collect spillage.

**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

<table>
<thead>
<tr>
<th>Weight percent</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 - 50%</td>
<td>Ammonium lauryl sulfate</td>
<td>2235-54-3</td>
</tr>
<tr>
<td>&lt;2.5%</td>
<td>N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide</td>
<td>113-48-4</td>
</tr>
<tr>
<td>0.25 - 2.5%</td>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
</tr>
<tr>
<td>0.15%</td>
<td>Pyrethrum Extract</td>
<td>8003-34-7</td>
</tr>
</tbody>
</table>

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: Carbon monoxide (CO) Carbon dioxide (CO2)

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

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:
Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid
Colour: yellowish
Odour: Flowery
Odour Threshold: No applicable information is available
Melting point: No applicable information is available
Boiling point/boiling range: No applicable information is available
Density: 1.07 g/cm³ at 68 °F (20 °C)
Bulk density: No applicable information is available
Viscosity, dynamic: 1,100 cps
Viscosity, kinematic: No applicable information is available
Flow time: No applicable information is available
Surface tension: No applicable information is available
Miscibility with water: No applicable information is available
Water solubility: miscible
pH: 6.2
Relative density: No applicable information is available
Partition coefficient: No applicable information is available
Solubility(ies): No applicable information is available
Flash point: 159.8 °F (71 °C) closed cup
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: No data available

Materials to avoid: Oxidizing agents

Hazardous reactions: No data available

Thermal decomposition:

No data available
Hazardous decomposition products:
Carbon monoxide (CO), Carbon dioxide (CO2)

Oxidizing properties:
No statements available.

Impact sensitivity:
No data available

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:
Acute toxicity estimate (ATE) > 2,000 mg/kg
Method: Calculation method
Calculated for GHS Classification and Labelling.

Acute inhalation toxicity:
Acute toxicity estimate (ATE) > 20 mg/l
Method: Calculation method
Calculated for GHS Classification and Labelling.

Acute dermal toxicity:
Acute toxicity estimate (ATE) > 2,000 mg/kg
Method: Calculation method
Calculated for GHS Classification and Labelling.

Skin irritation:
N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide
Rabbit
Result: Mild skin irritation

Eye irritation:
N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide
Rabbit
slight irritation According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Sensitisation:
N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide
guinea pig
Result: Does not cause skin sensitisation.

Subacute, subchronic and prolonged toxicity:
N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide
NOEL 50 mg/kg, Rat, Exposure time 24 month
Chronic

NOEL 250 ppm, Dog, Exposure time 12 month
Chronic
11. TOXICOLOGICAL INFORMATION

Oncogenicity:
NOEL 450 mg/kg, Rat, Exposure time 24 month

NOEL 50 mg/kg, Mouse, Exposure time 18 month

NOEL 400 mg/kg, Rat, Exposure time 3 month

Subchronic toxicity

Reproductive toxicity:
N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide
Rat: NOAEL: > 10000 mg/kg

Teratogenicity:
N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide
Rat: NOAEL: 1000 mg/kg

Rabbit: NOAEL: 100 mg/kg

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

12. ECOLOGICAL INFORMATION

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

Toxicity to fish:
N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide
LC50  1.4 mg/l
Test species: Oncorhynchus mykiss (rainbow trout)  Duration of test: 96 h

LC50  2.3 mg/l
Test species: Lepomis macrochirus (Bluegill)  Duration of test: 96 h

Toxicity to daphnia and other aquatic invertebrates:
N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide
LC50  2.3 mg/l

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)
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)**
- non-regulated

**International IATA**
- **UN Number**: 3082
- **Description of the goods**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRETHRINS)
- **Class**: 9
- **Packaging group**: III
- **Dangerous goods labels**: 9
- **Environmentally hazardous**: yes

**International IMDG**
- **UN Number**: 3082
- **Description of the goods**: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PYRETHRINS)
- **Class**: 9
- **Packaging group**: III
- **IMDG-Labels**: 9
- **EmS Number**: F-A
- **Marine pollutant**: yes

15. REGULATORY INFORMATION

**Other regulations**: No statements available.

**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
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
None

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components
None

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

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<td>0.1 - 1%</td>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
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</table>

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

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.