

SAFETY DATA SHEETS

This SDS packet was issued with item:

078359040

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078354032 078359032 078394343 078394459

SAFETY DATA SHEET

1. Identification

| | |
|---|---|
| Product identifier | Cydetin® Pour-On |
| Other means of identification | None. |
| Recommended use | Indicated for the treatment of infections and infestations due to internal and external parasites of animals |
| Recommended restrictions | None known. |
| Manufacturer/Importer/Supplier/Distributor information | |
| Manufacturer | Boehringer Ingelheim Vetmedica, Inc. |
| Address | 2621 North Belt Hwy St. Joseph, MO 64506-2002 |
| Transportation emergency | For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted) |
| Medical Emergency (24HR): | (866)638-2226 |
| Non-Emergency calls: | (800) 821-7467 |

2. Hazard(s) identification

| | | |
|------------------------------|--|-----------------------------|
| Physical hazards | Flammable liquids | Category 4 |
| Health hazards | Skin corrosion/irritation | Category 2 |
| | Specific target organ toxicity, single exposure | Category 3 narcotic effects |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 2 |
| | Hazardous to the aquatic environment, long-term hazard | Category 2 |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| | |
|--------------------------------|--|
| Signal word | Warning |
| Hazard statement | Combustible liquid. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. |
| Precautionary statement | |
| Prevention | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection. Avoid release to the environment. |
| Response | If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage. |
| Storage | Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep at a temperature at or below 25° C (77° F). Keep out of direct sunlight. Keep from freezing. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |

Hazard(s) not otherwise
classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

| Chemical name | CAS number | % |
|----------------------|-------------|----|
| Aromatic 100 Solvent | 64742-95-6 | 15 |
| Moxidectin | 113507-06-5 | <1 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments Other components in this product are considered non-hazardous under the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First-aid measures

| | |
|---|--|
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Skin contact | Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. May cause allergic skin disorders in sensitive individuals. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. For animal injection only. Not for human use. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Persons developing anaphylactic (life-threatening) reactions, such as difficulty in breathing or unconsciousness, must receive immediate medical attention. If anaphylactoid reactions occur, epinephrine may be used as an antidote. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | Water fog. Dry chemical powder. Carbon dioxide (CO ₂). Foam. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |

6. Accidental release measures

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|--|---|

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions**7. Handling and storage****Precautions for safe handling**

Avoid prolonged exposure. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store at or below room temperature. For maximum product quality, avoid prolonged storage at temperatures above 75°F (25°C). Do not store in direct sunlight. Keep from freezing. Store away from foodstuffs.

8. Exposure controls/personal protection**Occupational exposure limits**

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Not generally required when handling containers. If containers are compromised or exposure to the mixture is likely:

Skin protection**Hand protection**

Not generally required when handling containers. If containers are compromised or exposure to the mixture is likely:

Other

Not generally required when handling containers. If containers are compromised or exposure to the mixture is likely: Use personal protective equipment as required.

Respiratory protection

Not generally required when handling vials or containers. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties**Appearance**

Dark violet oily liquid

Physical state

Liquid.

Form

Liquid.

Color

Dark violet

Odor

Aromatic

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

-0.22 - 13.28 °F (-17.9 - -10.4 °C)

Initial boiling point and boiling range

Not available.

Flash point

150.0 °F (65.6 °C)

| | |
|---|-----------------------|
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | 1.8 % |
| Flammability limit - upper (%) | 12.6 % |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 4 mm Hg at 20° C |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not miscible in water |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | 26 cP (68 °F (20 °C)) |

10. Stability and reactivity

| | |
|---|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Keep from freezing. High temperatures. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | Carbon dioxide, carbon monoxide, nitrogen oxides |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | May cause drowsiness and dizziness. Headache. Nausea, vomiting. |
| Skin contact | Causes skin irritation. May cause skin or membrane irritation in sensitive individuals or animals. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | Ingestion of this product may cause nausea, vomiting and diarrhea. |

| | |
|---|--|
| Symptoms related to the physical, chemical and toxicological characteristics | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain. |
|---|--|

Information on toxicological effects

| | |
|---|--|
| Acute toxicity | Narcotic effects. |
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not a respiratory sensitizer. |
| Skin sensitization | This product is not expected to cause skin sensitization. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) | |
| Not listed. | |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

Ecotoxicity Very toxic to aquatic organisms. Very toxic to aquatic life with long lasting effects.

| Components | | Species | Test Results |
|---------------------------------------|------|---------------------|--------------------|
| Aromatic 100 Solvent (CAS 64742-95-6) | | | |
| Aquatic | | | |
| Acute | | | |
| Crustacea | EL50 | Daphnia | 4.5 mg/l, 48 hours |
| Fish | LL50 | Oncorhynchus mykiss | 10 mg/l, 96 hours |

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil Moxidectin is moderately persistent in soil.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose of by incineration or in accordance with local regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

DOT BULK

BULK

UN number NA1993
UN proper shipping name Combustible liquid, n.o.s (Aromatic 100 Solvent)
Packing group III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

Not regulated as dangerous goods.

IMDG

UN number UN3082
UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Moxidectin)
Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
Packing group III
Environmental hazards
Marine pollutant No.
EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No |

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 04-May-2015
Revision date -
Version # 01
HMIS® ratings Health: 2
Flammability: 2
Physical hazard: 0

NFPA ratings



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SAFETY DATA SHEET

Cydetin Pour-on

Version 1.0

Revision Date 01/19/2017

122000009487
Print Date 01/20/2017

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

Product information

Product Name: Cydetin Pour-on
Synonyms: Cydetin Pour-on 1%
SDS Number: 122000009487

Use : Parasiticide

Company

Bayer HealthCare, LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
UNITED STATES OF AMERICA
(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

Classification of the substance or mixture

Classification according to national GHS implementation:

Flammable liquids, Category 4 (H227)
Skin irritation, Category 2 (H315)
Reproductive toxicity, Category 2 (H361)
Aspiration hazard, Category 1 (H304)

Label elements

Labelling according to national GHS implementation:



Danger

Hazard statements:

H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:

Prevention:
P201 Obtain special instructions before use.



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P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

P281 Use personal protective equipment as required.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

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.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

| Components: | CAS-No. |
|--|-------------|
| Naphtha (petroleum), hydrotreated light | 64742-49-0 |
| Moxidectin | 113507-06-5 |

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Hazardous components

Naphtha (petroleum), hydrotreated light

Concentration [Weight percent] 12.9

CAS-No.: 64742-49-0

CAS name: Naphtha (petroleum), hydrotreated light

GHS Classification:



Flam. Liq. 2 H225

Skin Irrit. 2 H315

STOT SE 3 H336

Asp. Tox. 1 H304

Moxidectin

Concentration [Weight percent] 0.95

CAS-No.: 113507-06-5

CAS name: Milbemycin B, 5-O-demethyl-28-deoxy-25-[(1E)-1,3-dimethyl-1-butenyl]-6,28-epoxy-23-(methoxyimino)-, (6R,23E,25S)-



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GHS Classification:



Acute Tox. 4 H332
Acute Tox. 3 H301
Repr. 2 H361fd

M-Factor: 10,000

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of 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.

Most important acute symptoms/effects

Indication of any immediate medical attention and special treatment needed

5. FIREFIGHTING MEASURES

Extinguishing media

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

Unsuitable extinguishing media: High volume water jet

Special hazards arising from the substance or mixture

Specific hazards during firefighting: Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO₂)

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

Advice for firefighters

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



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Environmental precautions

Methods and materials for containment and cleaning up

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

Reference to other sections

Additional advice: Keep away from/remove sources of ignition.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling:

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

Keep away from open flames, hot surfaces and sources of ignition. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Specific end use(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--|------------|----------------------------------|---|----------|
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | TWA | 500 ppm 2,000 mg/m ³ | OSHA Z-1 |
| | | TWA | 400 ppm 1,600 mg/m ³ | OSHA P0 |

Hazardous components without workplace control parameters

| Components | CAS-No. |
|------------|-------------|
| Moxidectin | 113507-06-5 |

Personal protective equipment

Respiratory protection : Recommended Filter type:
Organic vapor with prefilter

None required for consumer use of this product.

Hand protection



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| | | |
|---------------------|---|--|
| Material | : | Chemically resistant gloves. |
| Remarks | : | None required for consumer use of this product. |
| Eye protection | : | Safety glasses None required for consumer use of this product. |
| Protective measures | : | Wear suitable protective equipment. Please consult label for end-user requirements. |

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|---|--|
| Form: | oily |
| Colour: | dark violet |
| Odour: | characteristic aromatic |
| Melting point/range: | -17.9 - -10.4 °C |
| Boiling point/boiling range: | No statements available. |
| Density: | 0.918 g/cm ³ at 20 °C at 1,013 hPa |
| Bulk density: | Not applicable |
| Vapour pressure: | No statements available. |
| Viscosity, dynamic: | 26 cps at 20 °C |
| Viscosity, kinematic: | No statements available. |
| Flow time: | No statements available. |
| Surface tension: | No statements available. |
| Water solubility: | No statements available. |
| Solubility(ies): | No statements available. |
| pH: | No statements available. |
| Corrosive to metal: | No statements available. |
| Partition coefficient (n-octanol/water): | No statements available. |
| Auto-flammability: | No statements available. |
| Flash point: | 65.5 °C |
| Inflammability (solid, gaseous): | Not applicable |
| Explosion limits: | Naphtha (petroleum), hydrotreated light upper: 8.3 %(V) lower: 0.7 %(V) |

Other information

| | |
|-------------------------|--------------------------|
| Miscibility with water: | No statements available. |
|-------------------------|--------------------------|

10. STABILITY AND REACTIVITY



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Reactivity

No statements available.

Reactions with water / air:

No statements available.

Ignition temperature:

Naphtha (petroleum), hydrotreated light
250 °C

Burning number:

No statements available.

Chemical stability**Thermal decomposition:**

No data available

Dust explosion characteristic number:

Not applicable

Dust explosion class:

Not applicable

Impact sensitivity:

No data available

Hazardous reactions:

None known.

Explosive properties:

No statements available.

Possibility of hazardous reactions**deflagration ability:**

No statements available.

Smoldering combustion:

No statements available.

Conditions to avoid

No data available

Minimum ignition energy:

No data available

Oxidizing properties:

No statements available.

Incompatible materials**Materials to avoid:**

Oxidizing agents

Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂)



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11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate (ATE): > 5,000 mg/kg
Method: Calculation method

Components:

Naphtha (petroleum), hydrotreated light:

Acute oral toxicity : LD50 (Rat): > 5,840 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 23.3 mg/l
Exposure time: 4 h
Acute dermal toxicity : LD50 (Rabbit): > 2,800 mg/kg

Moxidectin:

Acute oral toxicity : LD50 (Rat): 106 mg/kg
Assessment: Toxic if swallowed.
Acute inhalation toxicity : LC50 (Rat): 4.1 mg/l
Exposure time: 4 h
Method: Calculation method
Assessment: Harmful if inhaled.
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Acute toxicity (other routes of administration) : LD50 (Rat): 394 mg/kg
Application Route: intraperitoneal
LD50 (Rat): > 640 mg/kg
Application Route: subcutaneous

Skin corrosion/irritation

Components:

Naphtha (petroleum), hydrotreated light:

Species: Rabbit
Result: Causes skin irritation.
Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

Moxidectin:

Result: Moderate skin irritation



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Serious eye damage/eye irritation

Components:

Naphtha (petroleum), hydrotreated light:

Species: Rabbit

Result: No eye irritation

Method: Draize Test

Moxidectin:

Result: Moderate eye irritation

Respiratory or skin sensitisation

Components:

Naphtha (petroleum), hydrotreated light:

Test Type: Skin sensitisation

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Moxidectin:

Assessment: Toxic if swallowed., Harmful if inhaled.

Germ cell mutagenicity

Components:

Naphtha (petroleum), hydrotreated light:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

: Test Type: Chromosome aberration test in vitro
Species: Hamster ovary-cells
Result: negative

Genotoxicity in vivo : Test Type: In vivo Cytogenetic Test
Species: Rat
Result: Evidence of a genotoxic effect.

Test Type: Micronucleus test
Species: Mouse
Result: negative

Moxidectin:

Genotoxicity in vitro : Result: No evidence of a gene mutagenic effect.

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.



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OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Components:

Moxidectin:

Repeated dose toxicity - Assessment : Toxic if swallowed., Harmful if inhaled.

Further information

Components:

Naphtha (petroleum), hydrotreated light:

Remarks: **Risk of serious damage to the lungs (by aspiration).
May cause lung damage if swallowed.**

Remarks: Risk of cutaneous absorption.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Naphtha (petroleum), hydrotreated light:

Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l

Toxicity to daphnia and other aquatic invertebrates : LC50 (Crangon crangon (shrimp)): 4.3 mg/l
Exposure time: 96 h

Moxidectin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,16 µg/l
Test Type: Acute Fish toxicity

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.00003 mg/l

Toxicity to algae : EC50 (Selenastrum Capricornutum (Green algae)): 0.087 mg/l

M-Factor (Acute aquatic toxicity) : 10,000



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Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

Naphtha (petroleum), hydrotreated light:

Biochemical Oxygen : 70 mg/l
Demand (BOD) Incubation time: 5 d

Chemical Oxygen Demand : 130 mg/g
(COD)

Moxidectin:

Stability in water : Degradation half life: 180 d

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological : Do not allow to enter surface waters or groundwater.
information

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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

Please note that limited quantities, consumer commodity regulations or other exemptions may apply.

Land transport (CFR)

Proper shipping name: COMBUSTIBLE LIQUID, N.O.S. (contains SOLVENT



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| | |
|------------------------------------|--|
| Hazard Class or Division: | NAPHTHA (PETROLEUM), LIGHT AROMATIC) |
| UN/NA Number | Combustible liquid 1993 |
| Packaging group | III |
| Hazard Label(s): | None |
| <u>Sea transport (IMDG)</u> | |
| UN Number | 3082 |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MOXIDECTIN) |
| Class | 9 |
| Packaging group | III |
| IMDG-Labels | 9 |
| EmS Number | F-A |
| Marine pollutant | yes |
| <u>Air transport (IATA)</u> | |
| UN Number | 3082 |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MOXIDECTIN) |
| Class | 9 |
| Packaging group | III |
| Dangerous goods labels | 9 |
| Environmentally hazardous | yes |

15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

US State Regulations

Massachusetts Right To Know

tert-butyl-4-methoxyphenol

25013-16-5

0 - 0.1 %



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Pennsylvania Right To Know

| | | |
|---|------------|-----------|
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | 10 - 20 % |
|---|------------|-----------|

New York City Hazardous Substances

| | | |
|---|------------|-----------|
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | 10 - 20 % |
|---|------------|-----------|

California Prop. 65 WARNING! This product contains a chemical known to the State of California to cause cancer.

| | |
|----------------------------|------------|
| tert-butyl-4-methoxyphenol | 25013-16-5 |
|----------------------------|------------|

California List of Hazardous Substances

| | |
|---|------------|
| Naphtha (petroleum), hydrotreated light | 64742-49-0 |
|---|------------|

California Permissible Exposure Limits for Chemical Contaminants

| | |
|---|------------|
| Naphtha (petroleum), hydrotreated light | 64742-49-0 |
|---|------------|

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Full text of H-Statements mentioned in chapters 2 and 3

| | |
|--------|--|
| H225 | Highly flammable liquid and vapour. |
| H227 | Combustible liquid. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |

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.