



SAFETY DATA SHEET

Ubertop

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Version 1

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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Ubertop

Synonyms Acetamiprid 218 Emamectin Benzoate 37 DC
Pure substance/mixture Mixture
Formula DC

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Insecticide; Professional use
Uses advised against No information available

Details of the supplier of the safety data sheet

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Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute toxicity - Oral Category 4 - (H302)
Serious eye damage/eye irritation Category 2B - (H320)
Specific target organ toxicity (single exposure) Category 2 - (H371)
Specific target organ toxicity (repeated exposure) Category 2 - (H373)
Acute aquatic toxicity Category 1 - (H400)
Chronic aquatic toxicity Category 1 - (H410)

Label Elements

Hazard pictograms



Signal word

Warning

Hazard Statements

H302 - Harmful if swallowed
 H320 - Causes eye irritation
 H371 - May cause damage to organs
 H373 - May cause damage to organs through prolonged or repeated exposure
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P102 - Keep out of reach of children
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P270 - Do not eat, drink or smoke when using this product
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Chemical Name | Weight-% | CAS No | EC No | GHS Classification | M-Factor |
|--|----------|-------------|-----------|--|--------------------|
| Acetamiprid | 17-21 | 135410-20-7 | 603-921-1 | Acute Tox. 4 (H302) Aquatic Chronic 3 (H412) | |
| Emamectin-benzoate | 2-4 | 155569-91-8 | | Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Eye Dam. 1 (H318) STOT SE 1 (H370)(nervous system) STOT RE 1 (H372)(nervous System) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | M=10000 M=10000 |
| Propylene carbonate | 45-50 | 108-32-7 | 203-572-1 | Eye Irrit. 2 (H319) | |
| Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl)phenyl]-.omega.-hydroxy- | 1-3 | 99734-09-5 | | Aquatic Chronic 3 (H412) | |
| Tristyrylphenol ethoxylate phosphate ester | 1-3 | 114535-82-9 | | Eye Irrit. 2 (H319) | |

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

First aid measures

| | |
|---|---|
| General advice | In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!. |
| Inhalation | Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician. |
| Skin Contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary. |
| Eye contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. |
| Ingestion | Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. |
| Self-protection of the first aider | Use personal protective equipment as required. |

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

No specific hazard known.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus
In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

Exposure controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Hand Protection

Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

Body Protection

Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.

Respiratory protection

Use only with adequate ventilation.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

| <u>Property</u> | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|---|------------------------------|---------------|-------------------------------------|
| Appearance | | | |
| Physical state | : liquid | | |
| Color | : green | | |
| Odor | : No data available | | |
| Odor threshold | : No data available | | |
| pH | : 4.7 - 5.7 | CIPAC MT 75.3 | solution (1%) |
| Melting point/freezing point °C | : ---- | | Not Applicable |
| Boiling point/boiling range °C | : No data available | | |
| Flash point °C | : 98 | CIPAC MT 12 | CC (closed cup) |
| Evaporation rate | : ---- | | No data available |
| Flammability (solid, gas) | : Not applicable for liquids | | |
| Upper/lower flammability or explosive limits | : No data available | | |
| Vapor pressure kPa | : ---- | | Not Applicable |
| Vapor density | : No data available | | |
| Relative density | : 1.1 - 1.2 | OECD 109 | 21 °C |
| Solubility(ies) mg/l | : ---- | | Not Applicable |
| Partition Coefficient (n-octanol/water) Log Pow | : | | See Section 12 for more information |
| Autoignition temperature °C | : ---- | | No data available |
| Decomposition temperature °C | : No data available | | |
| Kinematic viscosity mm ² /s 40 °C | : 46.2 | CIPAC MT 22 | |
| Explosive properties | : Not an explosive | | |
| Oxidizing properties | : No data available | | |
| Other Information | | | |
| Bulk density g/ml | : ---- | | Not Applicable |
| Surface tension mN/m | : ---- | | No data available |

Section 10: STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity

| | <u>Values</u> | <u>Species</u> | <u>Method</u> | <u>Remarks</u> |
|-----------------------------------|------------------------------|----------------|---------------|----------------|
| Oral LD50 mg/kg | : 300-2000 | Rat | OECD 423 | |
| Dermal LD50 mg/kg | : > 2000 | Rat | OECD 402 | |
| Inhalation LC50 mg/l/4h | : > 5.09 | Rat | OECD 403 | |
| Skin corrosion/irritation | : Non-irritating to the skin | Rabbit | OECD 404 | |
| Serious eye damage/eye irritation | : Irritating to eyes | Rabbit | OECD 405 | |
| Respiratory/skin sensitization | : Not a skin sensitizer | Guinea pig | OECD 406 | |

Chronic toxicity

Germ cell mutagenicity

Chemical Name

| | |
|--------------------|------------------|
| Acetamiprid | : Not classified |
| Emamectin-benzoate | : Not classified |

Carcinogenicity

Chemical Name

| | |
|--------------------|--------------------|
| Acetamiprid | : Not Carcinogenic |
| Emamectin-benzoate | : Not Carcinogenic |

Reproductive toxicity

Chemical Name

| | |
|--------------------|---|
| Acetamiprid | : Not toxic for the reproductive system |
| Emamectin-benzoate | : Not toxic for the reproductive system |

STOT - single exposure

Chemical Name

| | |
|--------------------|----------------------------------|
| Acetamiprid | : No data available |
| Emamectin-benzoate | : H370 - Causes damage to organs |

STOT - repeated exposure

Chemical Name

| | |
|--------------------|---|
| Acetamiprid | : No data available |
| Emamectin-benzoate | : H372 - Causes damage to organs through prolonged or repeated exposure |

Aspiration hazard

Chemical Name

| | |
|--------------------|---------------------|
| Acetamiprid | : No data available |
| Emamectin-benzoate | : No data available |

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

| | <u>Values</u> | <u>Species</u> | <u>Method</u> | <u>Remarks</u> |
|-----------------------------|---------------------|----------------|---------------|-------------------|
| Acute toxicity | | | | |
| Fish 96-hour LC50 mg/l | : 9.99 | Rainbow trout | OECD 203 | |
| Crustacea 48-hour EC50 mg/l | : 0.0654 | Daphnia magna | OECD 202 | |
| Algae 72-hour EC50 mg/l | : 115 | P. subcapitata | OECD 201 | |
| Other plants EC50 mg/l | : ---- | | | No data available |
| Chronic aquatic toxicity | | | | |
| Fish NOEC mg/l | : No data available | | | |
| Crustacea NOEC mg/l | : No data available | | | |

Algae NOEC mg/l : No data available
 Other plants NOEC mg/l : No data available

Terrestrial Toxicity

Birds Oral LD50 mg/kg

Chemical Name

Acetamiprid : 98 Mallard duck
 Emamectin-benzoate : 76 A. platyrhynchos No data available

Bees Oral LD50 µg/bee

Chemical Name

Acetamiprid : 14.53 Oral
 Emamectin-benzoate : 0.0036 contact

Persistence and degradability

Abiotic Degradation

Water DT50 days

Chemical Name

| | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|--------------------|---------------|---------------|-------------------|
| Acetamiprid | : 3.6 - 5.8 | | |
| Emamectin-benzoate | : ---- | | No data available |

Soil DT50 days

Chemical Name

| | | | |
|--------------------|--------------|--|-------|
| Acetamiprid | : 2.9 | | Field |
| Emamectin-benzoate | : 25.2 - 414 | | 20 °C |

Biodegradation

Chemical Name

Acetamiprid : No data available
 Emamectin-benzoate : Not readily biodegradable

Bioaccumulative potential

Partition Coefficient

(n-octanol/water) Partition

Coefficient (n-octanol/water) Log

Pow

Chemical Name

| | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|--------------------|---------------|---------------|----------------|
| Acetamiprid | : 0.80 | OECD 117 | pH 5.4 |
| Emamectin-benzoate | : 5.0 | | pH 7 |

Bioconcentration factor (BCF)

Chemical Name

| | | | |
|--------------------|---------------|--|------------------------------|
| Acetamiprid | : ---- | | No bioaccumulation potential |
| Emamectin-benzoate | : 82 L/kg wwt | | No data available |

Mobility in soil

Adsorption/Desorption

Chemical Name

| | <u>Values</u> | <u>Method</u> | <u>Remarks</u> |
|--------------------|----------------|---------------|----------------|
| Acetamiprid | : 71.1 - 138.4 | | KOC |
| Emamectin-benzoate | : 643.01 | | Kf |

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|--|---|
| Waste from residues/unused products | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging | Improper disposal or reuse of this container may be dangerous and illegal. |
| Other Information | Waste codes should be assigned by the user based on the application for which the product was used. |

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

| | |
|-------------------------------------|--|
| UN/ID No * | 3082 |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Emamectin benzoate) |
| Hazard Class | 9 |
| Packing Group | III |
| Marine pollutant | Yes |
| Special precautions for user | |

RID/ADR

| | |
|-------------------------------------|--|
| UN/ID No * | 3082 |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Emamectin benzoate) |
| Hazard Class | 9 |
| Packing Group | III |
| Environmental hazard | Yes |
| Special precautions for user | |

ICAO/IATA

| | |
|---|--|
| UN/ID No * | 3082 |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Emamectin benzoate) |
| Hazard Class | 9 |
| Packing Group | III |
| Environmental hazard | Yes |
| Special precautions for user | |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not Applicable |



* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed
H302 - Harmful if swallowed
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H370 - Causes damage to organs
H371 - May cause damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Revision Note Changes made to the last version are labeled with this sign ***.

List of Acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS Number - Chemical Abstracts Service number
EC Number - EINECS and ELINCS Number
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development
PBT - Persistent, Bioaccumulative and Toxic substance
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
STOT - Specific Target Organ Toxicity
vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

The information provided in this Material 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.

End of Safety Data Sheet