



PREVATHON™ 5 SC

Version 2.0

Revision Date 22.09.2015

Ref. 130000033971

This Safety Data Sheet adheres to the standards and regulatory requirements of the European Union and may not meet the regulatory requirements in other countries.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : PREVATHON™ 5 SC

Synonyms : B12527036
DPX-E2Y45 5 SC

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

Use of the Substance/Mixture : Insecticide

1.3. Details of the supplier of the safety data sheet

Company : DuPont de Nemours South Africa (Pty) Ltd
34 Whiteley Road
Block B, 1st Floor
Melrose Arch
South Africa

Telephone : +27 (0) 11 218 8600

Telefax : +27 (0) 11 218 8664

E-mail address : sds-support@che.dupont.com

1.4. Emergency telephone number

Emergency telephone number : 0-800-983-611 (Toll free in-country) or +(44)-870-8200418
: +27 (0) 83 123 3911
: Poison Centres may only possess information required for products in
accordance with Regulation (EC) No 1272/2008 and national legislation.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008 (CLP)

Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EU) 1272/2008 (CLP)



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Warning

H410 Very toxic to aquatic life with long lasting effects.

Special labelling of certain substances and mixtures EUH401: To avoid risks to human health and the environment, comply with the instructions for use.,

P391 Collect spillage.
P501 Dispose of contents to an approved incineration plant in accordance with local, regional and national legislations.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Classification according to Directive 67/548/EEC | Classification according to Regulation (EU) 1272/2008 (CLP) | Concentration |
|--|---|---------------|
| Chlorantraniliprole (CAS-No.500008-45-7) | | |
| N;R50/53 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | 5 % |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Never give anything by mouth to an unconscious person.
Inhalation : No hazards which require special first aid measures. Consult a physician after



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significant exposure.

- Skin contact : No hazards which require special first aid measures. If on skin, rinse well with water. Wash contaminated clothing before reuse.
- Eye contact : No hazards which require special first aid measures. If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Consult a physician if necessary.
- Ingestion : No hazards which require special first aid measures. Consult a physician if necessary.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms : No cases of human intoxication are known and the symptoms of experimental intoxication are not known.

4.3. Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)
- Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk)

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO₂) Nitrogen oxides (NO_x)

5.3. Advice for firefighters

- 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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Control Runoff.
- : (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Control access to area. Keep people away from and upwind of spill/leak. Ventilate spill area. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Clean-up methods - small spillage Soak up with inert absorbent material. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean-up methods - large spillage Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

Other information : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

6.4. Reference to other sections

For personal protection see section 8., For disposal instructions see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Use only according to our recommendations. Wear personal protective equipment. For personal protection see section 8. Use only clean equipment. Provide adequate ventilation. Do not breathe vapours or spray mist. When opening containers, avoid breathing vapours that may be emanating. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. To avoid spills during handling keep bottle on a metal tray. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Never return unused material to storage receptacle. Avoid exceeding the given occupational exposure limits (see section 8).

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep away from food, drink and animal feedingstuffs. Store in a place accessible by authorized persons only. Store in original container. Keep in



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properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Advice on common storage : No special restrictions on storage with other products.

Other data : Stable under recommended storage conditions.

7.3. Specific end use(s)

Plant protection products subject to Regulation (EC) No 1107/2009.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

If sub-section is empty then no values are applicable.

8.2. Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection : Material: Nitrile rubber
Glove thickness: 0,3 mm
Glove length: Gauntlets of 35 cm long or longer.
Protection index: Class 6
Wearing time: 8 h
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gauntlets shorter than 35 cm long shall be worn under the combination sleeve. Gauntlets of 35 cm long or longer shall be worn over the combination sleeve. Before removing gloves clean them with soap and water.

Skin and body protection : Manufacturing and processing work: Full protective clothing Type 6 (EN 13034)

Mixer and loaders must wear: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Spray application - outdoor:

Tractor / sprayer with hood: No personal body protection normally required.

Tractor / sprayer without hood: Full protective clothing Type 6 (EN 13034) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Backpack / knapsack sprayer: Full protective clothing Type 6 (EN 13034) Nitrile



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rubber boots (EN 13832-3 / EN ISO 20345).

When exceptional circumstances would require an access to the treated area before the end of re-entry periods, wear full protective clothing Type 6 (EN 13034), nitrile rubber gloves class 2 (EN 374) and nitrile rubber boots (EN 13832-3 / EN ISO 20345).

To optimize the ergonomics it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.

Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.

The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during application.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. For environmental protection remove and wash all contaminated protective equipment before re-use. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Dispose of rinse water in accordance with local and national regulations. Wash hands before breaks and at the end of workday.

Respiratory protection : Manufacturing and processing work: Half mask with vapour filter A1 (EN 141)

Mixer and loaders must wear: Half mask with vapour filter A1 (EN 141)

Spray application - outdoor:

Tractor / sprayer with hood: No personal respiratory protective equipment normally required.

Tractor / sprayer without hood: Half mask with a particle filter FFP1 (EN149)

Backpack / knapsack sprayer: Half mask with a particle filter FFP1 (EN149)

Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : semi-viscous liquid



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| | |
|---|---|
| Colour | : white |
| Odour | : mild, alcohol-like |
| Odour Threshold | : not determined |
| pH | : 5 - 9 at 10 g/l |
| Boiling point/boiling range | : Not available for this mixture. |
| Flash point | : No flash up to boiling point. |
| Flammability (solid, gas) | : Does not sustain combustion. |
| Ignition temperature | : |
| Thermal decomposition | : Not available for this mixture. |
| Auto-ignition temperature | : Test Type :Auto-ignition temperatureNot available for this mixture. |
| Explosive properties | : Not explosive |
| Lower explosion limit/ lower flammability limit | : Not available for this mixture. |
| Upper explosion limit/ upper flammability limit | : Not available for this mixture. |
| Vapour pressure | : Not available for this mixture. |
| Relative density | : 1,02 - 1,04 |
| Water solubility | : dispersible |
| Partition coefficient: n-octanol/water | : Not applicable |
| Relative vapour density | : Not available for this mixture. |
| Evaporation rate | : Not available for this mixture. |

9.2. Other information

Phys.-chem./other information : No other data to be specially mentioned.

SECTION 10: Stability and reactivity

10.1. Reactivity : No hazards to be specially mentioned.

10.2. Chemical stability : The product is chemically stable under recommended conditions of storage, use and temperature.



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- 10.3. Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use. Polymerization will not occur. Stable at normal temperatures and storage conditions.
- 10.4. Conditions to avoid** : To avoid thermal decomposition, do not overheat. Protect from frost.
- 10.5. Incompatible materials** : None reasonably foreseeable.
: No materials to be especially mentioned.
- 10.6. Hazardous decomposition products** : No materials to be especially mentioned.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD50 / Rat : > 5 000 mg/kg
Method: OECD Test Guideline 425
(Data on the product itself)

Acute inhalation toxicity

LC50 / 4 h Rat : > 2,1 mg/l
Method: OECD Test Guideline 403
(Data on the product itself)

Acute dermal toxicity

LD50 / Rat : > 5 000 mg/kg
Method: OECD Test Guideline 402
(Data on the product itself)

Skin irritation

Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404
(Data on the product itself)

Eye irritation

Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
(Data on the product itself)

Sensitisation

Guinea pig Maximisation Test (GPMT)
Result: Animal test did not cause sensitization by skin contact.
Method: OECD Test Guideline 406
(Data on the product itself)



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Repeated dose toxicity

- Chlorantraniliprole
Oral multiple species
No toxicologically significant effects were found.

Dermal Rat
No toxicologically significant effects were found.

Mutagenicity assessment

- Chlorantraniliprole
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

- Chlorantraniliprole
Animal testing did not show any carcinogenic effects. Not classifiable as a human carcinogen.

Toxicity to reproduction assessment

- Chlorantraniliprole
No toxicity to reproduction Animal testing showed no reproductive toxicity.

Assessment teratogenicity

- Chlorantraniliprole
Animal testing showed no developmental toxicity.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish

- Chlorantraniliprole
static test / LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): > 13,8 mg/l
Method: OECD Test Guideline 203
Information source: Internal study report

Toxicity to aquatic plants

- Chlorantraniliprole
ErC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae): > 2 mg/l
Method: US EPA Test Guideline OPP 122-2 & 123-2
Information source: Internal study report

EbC50 / 14 d / *Lemna gibba* (duckweed): > 2 mg/l
Method: US EPA Test Guideline OPP 122-2 & 123-2
Information source: Internal study report



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Toxicity to aquatic invertebrates

- Chlorantraniliprole
static test / EC50 / 48 h / Daphnia magna (Water flea): 0,0116 mg/l
Method: OECD Test Guideline 202
Information source: Internal study report

Toxicity to other organisms

- Chlorantraniliprole
LD50 / 48 h / Apis mellifera (bees): 0.0274 µg/b
Method: OECD Test Guideline 213
Oral Information source: Internal study report

LD50 / 48 h / Apis mellifera (bees): 0.005 µg/b

Method: OECD Test Guideline 214

Contact Information source: Internal study report

Chronic toxicity to fish

- Chlorantraniliprole
NOEC / 28 d / Oncorhynchus mykiss (rainbow trout): 0,110 mg/l
Method: OECD Test Guideline 210
Information source: Internal study report

Chronic toxicity to aquatic Invertebrates

- Chlorantraniliprole
NOEC / 21 d / Daphnia magna (Water flea): 0,00447 mg/l
Method: US EPA Test Guideline OPPTS 850.1300
Information source: Internal study report

12.2. Persistence and degradability

Biodegradability

Not readily biodegradable. Estimation based on data obtained on active ingredient.

12.3. Bioaccumulative potential

Bioaccumulation

Does not bioaccumulate. Estimation based on data obtained on active ingredient.

12.4. Mobility in soil

Mobility in soil

Under actual use conditions, there is no reasonable expectation of any movement of the product from the top soil layer.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment



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This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). / This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

Additional ecological information

See product label for additional application instructions relating to environmental precautions.

No other ecological effects to be specially mentioned

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.

SECTION 14: Transport information

ADR

14.1. UN number: 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
14.5. Environmental hazards: Environmentally hazardous
14.6. Special precautions for user:
Tunnel restriction code: (E)

IATA_C

14.1. UN number: 3082
14.2. UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Chlorantraniliprole)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
14.5. Environmental hazards : For further information see Section 12.
14.6. Special precautions for user:
DuPont internal recommendations and transport guidance: ICAO / IATA cargo aircraft only

IMDG

14.1. UN number: 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole, Chlorantraniliprole)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
14.5. Environmental hazards : Marine pollutant
14.6. Special precautions for user:
no data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable



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SECTION 15: Regulatory information

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

Other regulations : The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008. Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 96/82/EC on the control of major-accident hazards involving dangerous substances. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

SECTION 16: Other information

Text of R-phrases mentioned in Section 3

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under section 3.

H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE Acute toxicity estimate
CAS-No. Chemical Abstracts Service number
CLP Classification, Labelling and Packaging
EbC50 Concentration at which 50% reduction of biomass is observed
EC50 Median effective concentration
EN European Norm
EPA Environmental Protection Agency
ErC50 Concentration at which a 50% inhibition of growth rate is observed
EyC50 Concentration at which 50 % inhibition of yield is observed
IATA_C International Air Transport Association (Cargo)
IBC International Bulk Chemical Code
ICAO International Civil Aviation Organization
ISO International Standard Organization
IMDG International Maritime Dangerous Goods
LC50 Median Lethal Concentration
LD50 Median Lethal Dose
LOEC Lowest Observed Effect Concentration
LOEL Lowest observed effect level
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.o.s. Not Otherwise Specified
NOAEC No Observed Adverse Effect Concentration
NOAEL No observed adverse effect level
NOEC No Observed Effect Concentration
NOEL No Observed Effect Level
OECD Organisation for Economic Co-operation and Development



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| | |
|-------|---|
| OPPTS | Office of Prevention, Pesticides and Toxic Substances |
| PBT | Persistent, Bioaccumulative and Toxic |
| STEL | Short term exposure limit |
| TWA | Time Weighted Average (TWA): |
| vPvB | very Persistent and very Bioaccumulative |

Further information

Take notice of the directions of use on the label.

Significant change from previous version is denoted with a double bar.

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.