according to the Hazardous Products Regulations



BANNER MAXX

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SECTION 1. IDENTIFICATION

Product name : BANNER MAXX

Design code : A6780D

Product Registration number : 27003

Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : Syngenta Canada Inc.

Address : 140 Research Lane, Research Park

Guelph ON N1G 4Z3

Canada

Telephone : 1-87-SYNGENTA (1-877-964-3682)

Telefax : 1-519-823-0504

E-mail address

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Skin sensitisation : Sub-category 1B

Reproductive toxicity : Category 1B

GHS label elements

Hazard pictograms :





Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P261 Avoid breathing mist or vapours.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection/ hearing protection.

according to the Hazardous Products Regulations



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Response:

P302 + P352 IF ON SKIN: Wash with plenty of water. P308 + P313 IF exposed or concerned: Get medical advice/

attention

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common	CAS-No.	Concentration (% w/w)
	Name/Synonym		
tetrahydro-2-furyl-	tetrahydro-2-	97-99-4	>= 30 - < 60 *
methanol	furyl-methanol		>= 30 - < 60
propiconazole (ISO)	propiconazole	60207-90-1	14.3
	(ISO)		14.5

^{*} Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Have the product container, label or Safety Data Sheet with

you when calling the emergency number, a poison control

center or physician, or going for treatment.

If inhaled : Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial respira-

tion.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

If swallowed : If swallowed, seek medical advice immediately and show this

container or label.

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Do NOT induce vomiting.

Most important symptoms

and effects, both acute and

delayed

Nonspecific No symptoms known or expected.

May cause an allergic skin reaction. May damage fertility or the unborn child.

Notes to physician There is no specific antidote available.

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Water spray

Extinguishing media - large fires

Alcohol-resistant foam

or

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread

Specific hazards during fire-

fighting

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod-

ucts of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

Further information Do not allow run-off from fire fighting to enter drains or water

courses.

Cool closed containers exposed to fire with water spray.

Special protective equipment :

for firefighters

Wear full protective clothing and self-contained breathing ap-

paratus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Refer to protective measures listed in sections 7 and 8.

Prevent further leakage or spillage if safe to do so. **Environmental precautions**

> Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling No special protective measures against fire required.

Avoid contact with skin and eyes.

according to the Hazardous Products Regulations



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When using do not eat, drink or smoke.

For personal protection see section 8.

Conditions for safe storage : No special storage conditions required.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

Further information on stor-

age stability

Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient

temperatures.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters / Permissible	Basis
		exposure)	concentration	
propiconazole (ISO)	60207-90-1	TWA	5 mg/m3	Syngenta

Engineering measures

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene ad-

vice.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

auired.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

Remarks : Wear protective gloves. The choice of an appropriate glove

does not only depend on its material but also on other quality features and is different from one producer to the other. 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 break through time depends amongst other things on the material, the thickness

according to the Hazardous Products Regulations



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and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there

is any indication of degradation or chemical breakthrough.

Eye protection : No special protective equipment required.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Remove and wash contaminated clothing before re-use.

Wear as appropriate: Impervious clothing

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek appro-

priate professional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : yellowish to orange

Odour : aromatic, like solvent

Odour Threshold : No data available

pH : 5-9

Concentration: 1 %w/v

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Method: Pensky-Martens closed cup

does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.09 g/cm3 (20 °C)

Solubility(ies)

according to the Hazardous Products Regulations



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Water solubility No data available

Solubility in other solvents No data available

Partition coefficient: n-

octanol/water

No data available

280 °C Auto-ignition temperature

Decomposition temperature No data available

Viscosity

Viscosity, dynamic 25.6 mPa.s (40 °C)

59.8 mPa.s (20 °C)

Viscosity, kinematic No data available

Explosive properties Not explosive

Oxidizing properties The substance or mixture is not classified as oxidizing.

Surface tension 38.3 mN/m, 1.000 %, 20 °C

Particle size No data available

SECTION 10. STABILITY AND REACTIVITY

None reasonably foreseeable. Reactivity Stable under normal conditions. Chemical stability

Possibility of hazardous reac-

: No dangerous reaction known under conditions of normal use.

Conditions to avoid No decomposition if used as directed. Incompatible materials : None known.

Hazardous decomposition

products

: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion

Inhalation

Skin contact

Eye contact

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity LD50 (Mouse, male): 2,330 mg/kg

Acute inhalation toxicity LC50 (Rat, male and female): > 1.08 mg/l

Exposure time: 4 h

according to the Hazardous Products Regulations



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Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,020 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Components:

propiconazole (ISO):

Acute oral toxicity : LD50 (Rat, female): 550 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.8 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit

Result : No skin irritation

Components:

propiconazole (ISO):

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit

Result : No eye irritation

Components:

tetrahydro-2-furyl-methanol:

Result : Eye irritation

propiconazole (ISO):

Species : Rabbit

Result : No eye irritation

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Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Test Type : Buehler Test Species : Guinea pig

Result : The product is a skin sensitiser, sub-category 1B.

Components:

propiconazole (ISO):

Species : Guinea pig

Result : The product is a skin sensitiser, sub-category 1B.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

propiconazole (ISO):

Germ cell mutagenicity - : Animal testing did not show any mutagenic effects.

Assessment

Carcinogenicity

Not classified due to lack of data.

Components:

propiconazole (ISO):

Carcinogenicity - Assess- : Weight of evidence does not support classification as a car-

ment cinogen

Reproductive toxicity

May damage fertility or the unborn child.

Components:

tetrahydro-2-furyl-methanol:

Reproductive toxicity - As-

sessment

Clear evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on

sexual function and fertility, based on animal experiments.

propiconazole (ISO):

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on development, based on

animal experiments.

STOT - single exposure

Not classified due to lack of data.

according to the Hazardous Products Regulations



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Components:

propiconazole (ISO):

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Not classified due to lack of data.

Components:

propiconazole (ISO):

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity

Not classified due to lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 25 mg/l

Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 36 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna Straus): 8.5 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 44

mg/l

Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):

0.46 mg/l

End point: Growth rate Exposure time: 96 h

Components:

propiconazole (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.3 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Americamysis): 0.51 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 8.9

mg/l

Exposure time: 96 h

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EC10 (Raphidocelis subcapitata (freshwater green alga)):

0.96 mg/l

End point: Growth rate Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Cyprinodon variegatus (sheepshead minnow)): 0.068

mg/

Exposure time: 95 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Americamysis): 0.11 mg/l

Exposure time: 28 d

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

Exposure time: 3 h

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Persistence and degradability

Components:

propiconazole (ISO):

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

Components:

propiconazole (ISO):

Bioaccumulation : Remarks: Medium bioaccumulation potential.

Partition coefficient: n-

octanol/water

log Pow: 3.72 (25 °C)

Mobility in soil

Components:

propiconazole (ISO):

Distribution among environ-

mental compartments

: Dissipation time: 66 - 170 d

Remarks: Low mobility in soil.

Stability in soil :

Percentage dissipation: 50 % (DT50)

Remarks: Product is not persistent.

Other adverse effects

Components:

propiconazole (ISO):

Results of PBT and vPvB

assessment

: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues Refer to the product label for specific disposal/recycling infor-

mation

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incinera-

If recycling is not practicable, dispose of in compliance with

local regulations.

Refer to the product label for specific disposal/recycling infor-Contaminated packaging

mation

Empty remaining contents. Triple rinse containers.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PROPICONAZOLE)

Class 9 Ш Packing group 9 Labels Environmentally hazardous yes

Remarks This product can be subject to exemptions when packaged in

single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a

net mass of 5 kg or less for solids.

IATA-DGR

UN/ID No. UN 3082

Environmentally hazardous substance, liquid, n.o.s. Proper shipping name

964

yes

(PROPICONAZOLE)

Class 9 Packing group Ш

Labels Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen-964

ger aircraft)

Environmentally hazardous

This product can be subject to exemptions when packaged in Remarks

> single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a

according to the Hazardous Products Regulations



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net mass of 5 kg or less for solids.

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PROPICONAZOLE)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Remarks : This product can be subject to exemptions when packaged in

single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a

net mass of 5 kg or less for solids.

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

Not applicable for product as supplied.

National Regulations

TDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PROPICONAZOLE)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171

Marine pollutant : yes(PROPICONAZOLE)

Remarks : Class 9 Exemption from Part 3, Documentation, and Part 4,

Dangerous Goods Safety Marks, if transported solely on land

by road vehicle or railway vehicle.

1.45.1. SOR/2008-34

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

Read the label, authorised under the Pest Control Products Act, prior to using or handling the pest control product

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label: Caution

Skull and crossbones

poison

Eye irritant

according to the Hazardous Products Regulations



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The components of this product are reported in the following inventories:

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

propiconazole (ISO)

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

Syngenta : Syngenta Occupational Exposure Limit

Syngenta / TWA : Time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response: ELx - Loading rate associated with x% response: EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals: SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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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.

CA / EN