

# **GESAGARD 480SC**

Version Revision Date: 1.0 05/08/2019

Date: SDS Number: 19 S172641074 This version replaces all previous versions.

#### **SECTION 1. IDENTIFICATION**

Product name : GESAGARD 480SC

Design code : A8564A

Product Registration number : 24771

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

Emergency telephone num-

bei

1-800-327-8633 (FAST MED)

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the Hazardous Products Regulations

Eye irritation : Category 2A

Specific target organ toxicity

- repeated exposure

Category 2 (Kidney)

**GHS** label elements

Hazard pictograms :





Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

H373 May cause damage to organs (Kidney) through prolonged

or repeated exposure.

Precautionary statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.



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P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

#### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

#### Disposal:

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

#### Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

## Components

Chemical name	CAS-No.	Concentration (% w/w)
prometryn	7287-19-6	44.3996
ethanediol	107-21-1	>= 5 - < 10
propane-1,2,3-triol	56-81-5	>= 1 - < 5
benzenesulfonic acid, C10-16-alkyl	68584-25-8	>= 1 - < 5
derivs., compds. with triethanolamine		
sodium 2-[methyloleoylamino]ethane-	137-20-2	>= 1 - < 5
1-sulphonate		

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.



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If swallowed :

If swallowed, seek medical advice immediately and show this

container or label.

Do NOT induce vomiting.

Most important symptoms

and effects, both acute and

delayed

Nonspecific

No symptoms known or expected.

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.

Extinguishing media - large fires

Alcohol-resistant foam

or

Water spray

Unsuitable extinguishing me- :

dia

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

fire.

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.

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

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, vermicu-

lite) and place in container for disposal according to local / na-

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



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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. 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-venti-

lated place.

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
prometryn	7287-19-6	TWA	5 mg/m3	Syngenta
		TWA	2 mg/m3	ACGIH
		(Inhalable		
		fraction)		
ethanediol	107-21-1	(c)	100 mg/m3	CA AB OEL
		TWA (partic-	10 mg/m3	CA BC OEL
		ulate)		
		STEL (partic-	20 mg/m3	CA BC OEL
		ulate)		
		C (aerosol)	100 mg/m3	CA BC OEL
		C (Vapour)	50 ppm	CA BC OEL
		C (Vapour	50 ppm	CA QC OEL
		and mist)	127 mg/m3	
		TWA	25 ppm	ACGIH
		(Vapour)		
		STEL	50 ppm	ACGIH
		(Vapour)		
		STEL	10 mg/m3	ACGIH
		(Inhalable		
		fraction, Aer-		
		osol only)		
propane-1,2,3-triol	56-81-5	TWA (Mist)	10 mg/m3	CA AB OEL
		TWA (Mist)	10 mg/m3	CA BC OEL
		TWA (Res-	3 mg/m3	CA BC OEL
		pirable mist)		
		TWAEV	10 mg/m3	CA QC OEL
		(Mist)		

**Engineering measures** : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE

CONTROLS/PERSONAL PROTECTION ARE INTENDED

FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL



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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 advice.

### Personal protective equipment

Respiratory protection

No personal respiratory protective equipment normally re-

quired.

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 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

: Tightly fitting safety goggles

Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

Skin and body protection

Choose body protection in relation to its type, to the concentration 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.



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Appearance : liquid

Colour : No data available

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : 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 : 1.066 g/cm3

Solubility(ies)

Solubility in other solvents : No data available

Partition coefficient: n-oc-

tanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : None reasonably foreseeable.



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Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

: 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**

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

# **Components:**

prometryn:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.17 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): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

ethanediol:

Acute oral toxicity : LD50 (Rat): 4,700 mg/kg

Acute toxicity estimate (Humans): 786 mg/kg

Assessment: The component/mixture is moderately toxic after

single ingestion.



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#### Skin corrosion/irritation

# **Components:**

prometryn:

Species : Rabbit

Result : No skin irritation

### benzenesulfonic acid, C10-16-alkyl derivs., compds. with triethanolamine:

Result : Irritating to skin.

## Serious eye damage/eye irritation

## **Components:**

prometryn:

Species : Rabbit

Result : No eye irritation

### benzenesulfonic acid, C10-16-alkyl derivs., compds. with triethanolamine:

Result : Risk of serious damage to eyes.

# sodium 2-[methyloleoylamino]ethane-1-sulphonate:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

## Respiratory or skin sensitisation

## **Components:**

#### prometryn:

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

# **Components:**

## prometryn:

Germ cell mutagenicity - As-

: Animal testing did not show any mutagenic effects.

sessment

# sodium 2-[methyloleoylamino]ethane-1-sulphonate:

Germ cell mutagenicity - As- : In vitro tests did not show mutagenic effects

sessment



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Carcinogenicity

Components:

**prometryn:**Carcinogenicity - Assess-

ment

: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

prometryn:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

sodium 2-[methyloleoylamino]ethane-1-sulphonate:

Reproductive toxicity - As-

sessment

: No toxicity to reproduction

STOT - repeated exposure

**Components:** 

ethanediol:

Target Organs : Kidney

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

Repeated dose toxicity

**Components:** 

prometryn:

Remarks : No adverse effect has been observed in chronic toxicity tests.

**SECTION 12. ECOLOGICAL INFORMATION** 

**Ecotoxicity** 

**Components:** 

prometryn:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.46 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 12.7 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.035

mg/l

Exposure time: 72 h



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NOEC (Pseudokirchneriella subcapitata (green algae)):

0.0057 mg/l

End point: Growth rate Exposure time: 72 h

EC50 (Navicula pelliculosa (Freshwater diatom)): 0.0014 mg/l

Exposure time: 120 h

NOEC (Navicula pelliculosa (Freshwater diatom)): 0.00056

mg/l

Exposure time: 120 h

M-Factor (Acute aquatic tox-

icity)

100

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 0.62 mg/l

Exposure time: 32 d

Toxicity to daphnia and other : aquatic invertebrates

(Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 1 mg/l

Exposure time: 21 d

M-Factor (Chronic aquatic

toxicity)

100

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

Exposure time: 3 h

ethanediol:

Toxicity to microorganisms EC50 (Pseudomonas putida): > 10,000 mg/l

Exposure time: 16 h

benzenesulfonic acid, C10-16-alkyl derivs., compds. with triethanolamine:

**Ecotoxicology Assessment** 

Acute aquatic toxicity Toxic to aquatic life.

Chronic aquatic toxicity Toxic to aquatic life with long lasting effects.

sodium 2-[methyloleoylamino]ethane-1-sulphonate:

Toxicity to fish LC50 (Danio rerio (zebra fish)): 1.32 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Daphnia magna (Water flea)): 5.76 mg/l

EC50 (Desmodesmus subspicatus (green algae)): 197 mg/l

Exposure time: 72 h

Toxicity to daphnia and other :

aquatic invertebrates

(Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 2 mg/l

Exposure time: 21 d



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Persistence and degradability

Components:

prometryn:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 70 d

Remarks: Product is not persistent.

sodium 2-[methyloleoylamino]ethane-1-sulphonate:

Biodegradability : Result: Readily biodegradable.

**Bioaccumulative potential** 

**Components:** 

prometryn:

Bioaccumulation : Remarks: Does not bioaccumulate.

Mobility in soil

**Components:** 

prometryn:

Distribution among environ-

mental compartments

Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 64 d

Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

Other adverse effects

**Components:** 

prometryn:

Results of PBT and vPvB as- :

sessment

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).

ethanediol:

Results of PBT and vPvB as- :

sessment

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).

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

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

mation



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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-

tion.

If recycling is not practicable, dispose of in compliance with lo-

cal regulations.

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

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.

(PROMETRYN)

Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082

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

(PROMETRYN)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

964

Packing instruction (passen-

ger aircraft)

: 964

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PROMETRYN)

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

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

Not applicable for product as supplied.



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### **National Regulations**

**TDG** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PROMETRYN)

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

Marine pollutant : yes(PROMETRYN)

#### 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**

Warning, contains the allergen 1,2-benzisothiazolin-3-one

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

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

Caution

Eye irritant

Canadian PBT Chemicals : This product contains the following components on the DSL

that are classified as Persistent, Bioaccumulative and/or Toxic

(PBT) under CEPA:

octamethylcyclotetrasiloxaneCyclopentasiloxane, 2,2,4,4,6,6,

8,8,10,10-decamethyl-

NPRI Components : ethanediol

propan-2-ol

## 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.

prometryn

#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.



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#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table

2: OEL

CA BC OEL : Canada. British Columbia OEL

CA QC OEL : Québec. Regulation respecting occupational health and

safety, Schedule 1, Part 1: Permissible exposure values for

airborne contaminants

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

CA AB OEL / TWA : 8-hour Occupational exposure limit
CA AB OEL / (c) : ceiling occupational exposure limit
CA BC OEL / TWA : 8-hour time weighted average
CA BC OEL / STEL : short-term exposure limit

CA BC OEL / C : ceiling limit

CA QC OEL / TWAEV : Time-weighted average exposure value

CA QC OEL / C : Ceiling

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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: 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