

**DUAL II MAGNUM**

Version	Revision Date:	SDS Number:	This version replaces all previous versions.
2.0	07/26/2023	S22054250	

**SECTION 1. IDENTIFICATION**

Product name : DUAL II MAGNUM  
Design code : A9558C

Product Registration number : 25729

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 : 1-877-SYNGENTA (1-877-964-3682)  
Telefax : 1-519-823-0504

E-mail address :  
Emergency telephone number : 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**

Skin sensitisation : Sub-category 1A

Carcinogenicity : Category 2

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.

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.

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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 disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
S-metolachlor	S-metolachlor	87392-12-9	82.4324
benoxacor	benoxacor	98730-04-2	$\geq 1 - < 5$ *
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	$\geq 1 - < 5$ *
amines, tallow alkyl, ethoxylated	amines, tallow alkyl, ethoxylated	61791-26-2	$\geq 1 - < 5$ *
Poly(oxy-1,2-ethanediyl), a-sulfo-w-(nonylphenoxy)-	Poly(oxy-1,2-ethanediyl), a-sulfo-w-(nonylphenoxy)-	9081-17-8	$\geq 1 - < 5$ *
naphthalene	naphthalene	91-20-3	$\geq 0.1 - < 1$ *

\* 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 respiration.  
Keep patient warm and at rest.

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|---|---|--|
| In case of skin contact                                     | : | Call a physician or poison control centre immediately.<br>Take off all contaminated clothing immediately.<br>Wash off immediately with plenty of water.<br>If skin irritation persists, call a physician.<br>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.<br>Remove contact lenses.<br>Immediate medical attention is required.   |
| If swallowed  | : | If swallowed, seek medical advice immediately and show this container or label.<br>Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.  |
| Most important symptoms and effects, both acute and delayed | : | Aspiration may cause pulmonary oedema and pneumonitis.   |
| Notes to physician  | : | There is no specific antidote available.<br>Treat symptomatically.<br>Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.   |

### SECTION 5. FIREFIGHTING MEASURES

- |   |   |  |
|---|---|--|
| Suitable extinguishing media                  | : | Extinguishing media - small fires<br>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.<br>Extinguishing media - large fires<br>Alcohol-resistant foam<br>or<br>Water spray                          |
| Unsuitable extinguishing media                | : | 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 products of combustion (see section 10).<br>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.<br>Cool closed containers exposed to fire with water spray.  |
| Special protective equipment for firefighters | : | Wear full protective clothing and self-contained breathing apparatus.  |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |   |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Refer to protective measures listed in sections 7 and 8.  |
| Environmental precautions   | : | Prevent further leakage or spillage if safe to do so.<br>Do not flush into surface water or sanitary sewer system.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for   | : | Contain spillage, and then collect with non-combustible ab-   |

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containment and cleaning up      sorbent 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.  
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.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
S-metolachlor	87392-12-9	TWA	5 mg/m <sup>3</sup>	Syngenta
benoxacor	98730-04-2	TWA	1 mg/m <sup>3</sup>	Syngenta
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	TWA	100 mg/m <sup>3</sup>	Supplier
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	CA AB OEL
		TWAEV	200 mg/m <sup>3</sup>	CA QC OEL
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
naphthalene	91-20-3	TWA	10 ppm 52 mg/m <sup>3</sup>	CA AB OEL
		STEL	15 ppm 79 mg/m <sup>3</sup>	CA AB OEL
		TWA	10 ppm	CA BC OEL
		TWAEV	10 ppm	CA QC OEL
		TWA	10 ppm	ACGIH

**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

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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 required.  
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 : No special protective equipment required.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific 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 appropriate professional advice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: amber
Odour	: No data available
Odour Threshold	: No data available
pH	: 7.2 Concentration: 1 %w/v

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Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	200 °C Method: Pensky-Martens closed cup
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	:	1,102 - 1,122 g/cm <sup>3</sup> (20 °C)
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Particle size	:	No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No decomposition if used as directed.

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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	:	LD50 (Rat, male): 2,675 mg/kg Remarks: Based on data from similar materials
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 3.06 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on data from similar materials
Acute dermal toxicity	:	LD50 (Rabbit, male and female): > 2,020 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on data from similar materials

**Components:****S-metolachlor:**

Acute oral toxicity	:	LD50 (Rat, male and female): 2,672 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.91 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rabbit, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity

**benoxacor:**

Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity

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Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,010 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

**amines, tallow alkyl, ethoxylated:**

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): 0.473 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**Poly(oxy-1,2-ethanediyl), a-sulfo-w-(nonylphenoxy)-:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

**naphthalene:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

**Skin corrosion/irritation****Product:**

Species : Rabbit  
Result : No skin irritation  
Remarks : Based on data from similar materials

**Components:****S-metolachlor:**

Species : Rabbit  
Result : No skin irritation

**benoxacor:**

Species : Rabbit  
Result : No skin irritation

**Poly(oxy-1,2-ethanediyl), a-sulfo-w-(nonylphenoxy)-:**

Result : Corrosive after 3 minutes or less of exposure

**Serious eye damage/eye irritation****Product:**

Species : Rabbit  
Result : No eye irritation  
Remarks : Based on data from similar materials



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**Components:****S-metolachlor:**

Species	:	Rabbit
Result	:	No eye irritation

**benoxacor:**

Species	:	Rabbit
Result	:	No eye irritation

**amines, tallow alkyl, ethoxylated:**

Result	:	Risk of serious damage to eyes.
Remarks	:	Information given is based on data obtained from similar substances.

**Poly(oxy-1,2-ethanediyl), a-sulfo-w-(nonylphenoxy)-:**

Result	:	Risk of serious damage to eyes.
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**Respiratory or skin sensitisation****Product:**

Species	:	Guinea pig
Result	:	The product is a skin sensitiser, sub-category 1A.
Remarks	:	Based on data from similar materials

**Components:****S-metolachlor:**

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

**benoxacor:**

Species	:	Guinea pig
Result	:	May cause sensitisation by skin contact.

**Germ cell mutagenicity****Components:****S-metolachlor:**

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

Germ cell mutagenicity - Assessment	:	Animal testing did not show any mutagenic effects.
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**Carcinogenicity****Components:****S-metolachlor:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**benoxacor:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**naphthalene:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**Reproductive toxicity****Components:****S-metolachlor:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

**benoxacor:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**STOT - repeated exposure****Components:****S-metolachlor:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**benoxacor:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration toxicity****Components:****Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

May be fatal if swallowed and enters airways.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7.6 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 19.8 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.11 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.004 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Remarks: Based on data from similar materials

### Components:

#### **S-metolachlor:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.23 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Americamysis): 1.4 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.077 mg/l  
Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.016 mg/l  
End point: Growth rate  
Exposure time: 96 h

EC50 (Lemna gibba (gibbous duckweed)): 0.023 mg/l  
Exposure time: 14 d

NOEC (Lemna gibba (gibbous duckweed)): 0.0076 mg/l  
Exposure time: 14 d

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.03 mg/l  
Exposure time: 35 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Americamysis): 0.13 mg/l  
Exposure time: 28 d

M-Factor (Chronic aquatic toxicity) : 10

#### **benoxacor:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.9 mg/l  
Exposure time: 96 h

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LC50 (Ictalurus punctatus (channel catfish)): 1.4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 17 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 13.5 mg/l  
Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)): 0.22 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.31 mg/l  
Exposure time: 32 d

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.016 mg/l  
Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.354 mg/l  
Exposure time: 21 d

**Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

**Ecotoxicology Assessment**

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

**amines, tallow alkyl, ethoxylated:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1 - 10 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): > 1 - 10 mg/l  
Exposure time: 72 h

NOEC (algae): 0.05 mg/l  
Exposure time: 72 h

**Poly(oxy-1,2-ethanediyl), a-sulfo-w-(nonylphenoxy)-:****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

**naphthalene:****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

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**Persistence and degradability****Components:****S-metolachlor:**

Biodegradability	:	Result: Not readily biodegradable.
Stability in water	:	Degradation half life: 53 - 147 d Remarks: Product is not persistent.

**benoxacor:**

Biodegradability	:	Result: Not readily biodegradable.
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**amines, tallow alkyl, ethoxylated:**

Biodegradability	:	Result: Readily biodegradable.
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**Bioaccumulative potential****Components:****S-metolachlor:**

Bioaccumulation	:	Remarks: Does not bioaccumulate.
Partition coefficient: n-octanol/water	:	log Pow: 3.05 (25 °C)

**benoxacor:**

Bioaccumulation	:	Remarks: Does not bioaccumulate.
Partition coefficient: n-octanol/water	:	log Pow: 2.6 (25 °C)

**Mobility in soil****Components:****S-metolachlor:**

Distribution among environmental compartments	:	Remarks: Moderately mobile in soils
Stability in soil	:	Dissipation time: 12 - 46 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

**benoxacor:**

Distribution among environmental compartments	:	Remarks: Moderately mobile in soils
Stability in soil	:	Dissipation time: 0.9 - 5.3 d Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

**Other adverse effects****Components:****benoxacor:**

Results of PBT and vPvB	:	This substance is not considered to be persistent, bioaccumu-
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assessment

lating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### naphthalene:

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).

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues

: Refer to the product label for specific disposal/recycling information  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging

: Refer to the product label for specific disposal/recycling information  
Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken to an approved waste handling 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.  
(S-METOLACHLOR, BENOXACOR)

Class

: 9

Packing group

: III

Labels

: 9

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

Proper shipping name

: Environmentally hazardous substance, liquid, n.o.s.  
(S-METOLACHLOR, BENOXACOR)

Class

: 9

Packing group

: III

Labels

: Miscellaneous

Packing instruction (cargo aircraft)

: 964

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Packing instruction (passenger aircraft) : 964  
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.

**IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-METOLACHLOR, BENOXACOR)  
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. (S-METOLACHLOR, BENOXACOR)  
Class : 9  
Packing group : III  
Labels : 9  
ERG Code : 171  
Marine pollutant : yes(S-METOLACHLOR, BENOXACOR)  
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**

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.

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

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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:

Warning

Eye irritant

Potential skin sensitiser

**NPRI Components** : Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified  
naphthalene  
nonylphenol ethoxylate propoxylate  
1,2,4-trimethylbenzene  
toluene

**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.  
S-metolachlor

benoxacor

**Canadian lists**

No substances are subject to a Significant New Activity Notification.

**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 air-borne contaminants
Syngenta	: Syngenta Occupational Exposure Limit
ACGIH / TWA	: 8-hour, time-weighted average
CA AB OEL / TWA	: 8-hour Occupational exposure limit
CA AB OEL / STEL	: 15-minute occupational exposure limit
CA BC OEL / TWA	: 8-hour time weighted average
CA QC OEL / TWAEV	: Time-weighted average exposure value
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



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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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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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