

**DuPont™ EverpreX™ Herbicide**

Version 2.0

Revision Date 03/22/2017

Ref. 130000147185

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ EverpreX™ Herbicide
Tradename/Synonym : S-Metolaclor: Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-[(1S)-2-methoxy-1-methylethyl]-

Product Use : Herbicide

Restrictions on use : Do not use product for anything outside of the above specified uses.
Manufacturer/Supplier : DuPont
974 Centre Road
Wilmington, DE 19805, USA

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887) :

SECTION 2. HAZARDS IDENTIFICATION**Product hazard category**

Acute toxicity (Inhalation)	Category 4
Serious eye damage/eye irritation	Category 2B
Skin sensitisation	Sub-category 1B
Carcinogenicity	Category 1B
Specific target organ toxicity - single exposure	Category 3
Specific target organ toxicity - repeated exposure	Category 2

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Label content

Pictogram

:



Signal word

: Danger

Hazardous warnings

: May cause an allergic skin reaction.
Causes eye irritation.
Harmful if inhaled.
May cause respiratory irritation.
May cause cancer.
May cause damage to organs through prolonged or repeated exposure.


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Hazardous prevention measures

: Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 Wash skin thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 IF ON SKIN: Wash with plenty of soap and water.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTER/doctor if you feel unwell.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF exposed or concerned: Get medical advice/ attention.
 If skin irritation or rash occurs: Get medical advice/ attention.
 If eye irritation persists: Get medical advice/ attention.
 Wash contaminated clothing before reuse.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

No applicable data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
S-Metolachlor	87392-12-9	83.7 %
Naphthalene	91-20-3	<1.0 %
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified	64742-94-5	<10.0 %

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Unspecified Active Agents		<5.3 %
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The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

- General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
For medical emergencies involving this product, call toll free 1-800-441-3637.
See Label for Additional Precautions and Directions for Use.
- Inhalation : If inhaled: Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
- Skin contact : If in contact with skin: Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Eye contact : If in contact with eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Ingestion : If swallowed: Call a poison control center or doctor for treatment advice. Do not give any liquid to the person. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed : May irritate eyes. May cause an allergic skin reaction. May cause irritation of respiratory tract.
- Protection of first-aiders : No applicable data available.

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Notes to physician : There is no specific antidote if this product is ingested.
Treat symptomatically.
Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.
Contains petroleum distillate - vomiting may cause aspiration pneumonia.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry chemical, Foam, Carbon dioxide (CO₂)
If water is used to fight fire, dike and collect runoff.

Unsuitable extinguishing media : No applicable data available.

Specific hazards : In fire conditions, toxic decomposition products may be formed.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Wear full protective clothing and self-contained breathing apparatus.

Further information : Evacuate personnel and keep upwind of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water.

Spill Cleanup : Clean-up methods - small spillage Prevent further leakage or spillage. Soak up with inert absorbent material. Shovel into 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

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liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Handling (Physical Aspects) : Keep away from heat and sources of ignition. Take measures to prevent the buildup of electrostatic charge.

Dust explosion class : No applicable data available.
Storage : Store in a cool, dry, well-ventilated area. Keep out of the reach of children. Keep away from food, drink and animal feedings. Store away from animals. Store locked up. No special restrictions on storage with other products. Stable under recommended storage conditions.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.

Personal protective equipment
Respiratory protection : No personal respiratory protective equipment normally required. Use NIOSH approved respiratory protection.

Hand protection : Material: Chemical-resistant gloves

Eye protection : Wear overall chemical splash goggles.



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Skin and body protection : Applicators and other handlers must wear:
 Chemical resistant footwear plus socks
 Coveralls
 Chemical resistant gloves, such as barrier laminate or Viton
 butyl-rubber
 Nitrile rubber

Protective measures : Eyewash facility and safety shower should be available.

Exposure Guidelines
 Exposure Limit Values

S-Metolachlor
 No applicable data available.

Naphthalene				
Permissible exposure limit:	(OSHA)	10 ppm	50 mg/m3	8 hr. TWA
TLV	(ACGIH)	10 ppm	TWA	
AEL *	(DuPont)	0.1 ppm	8 & 12 hr. TWA	

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified				
Permissible exposure limit:	(OSHA)	100 ppm	400 mg/m3	8 hr. TWA
TLV	(ACGIH)	200 mg/m3	TWA	Non-aerosol. as total hydrocarbon vapor
AEL *	(DuPont)	100 ppm	8 & 12 hr. TWA	Remarks P: Application restricted to conditions in which there are negligible aerosol exposures.

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Biological Exposure Indices

Naphthalene
BEI (ACGIH) 1-Naphthol, with hydrolysis + 2-Naphthol, with hydrolysis/
Sampling time: End of shift.

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : liquid
Form : liquid
Color : goldtobrown

Odor : sweet

Odor threshold : No applicable data available.

pH : 5 - 7 at 1 25 °C (77 °F)
(1% solution in water)

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : >93.3 °C
Method: Setafash closed cup - SCC

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Specific gravity (Relative) : 1.09 at 20 °C (68 °F)

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density)

Water solubility : No applicable data available.

Solubility(ies) : 0.48 g/l at 25 °C (77 °F)

Partition coefficient: n-octanol/water : No applicable data available.

Auto-ignition temperature : No applicable data available.

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazards to be specially mentioned.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerization will not occur.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition products : No applicable data available.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont(TM) EverpreX(TM) Herbicide

Inhalation 4 h LC50 : > 2.61 mg/l , Rat

Dermal LD50 : > 2,000 mg/kg , Rabbit

Oral LD50 : = 3,425 mg/kg , Rat

Skin irritation : slight irritation, Rabbit
Minimal effects that do not meet the threshold for classification.

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Eye irritation : Mild eye irritation, Rabbit

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

S-Metolachlor

Repeated dose toxicity :
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Liver effects

Reproductive toxicity : No toxicity to reproduction

Naphthalene

:
Repeated dose toxicity : Oral
Mouse
-
NOAEL: 133 mg/kg Method: OECD Test Guideline 408
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Respiratory irritationOral
human-
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., altered hematology

multiple species

-
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Kidney effects, Liver effects, lung effects

Mutagenicity : Animal testing did not show any mutagenic effects.

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Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Teratogenicity : Animal testing showed no developmental toxicity.

Carcinogenicity : Possible human carcinogen

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified

Repeated dose toxicity : Oral
Rat

-

No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Dermal
Rabbit

-

No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Inhalation
Rat

-

No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

Mutagenicity : Animal testing did not show any mutagenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Information given is based on data obtained from similar substances.

Reproductive toxicity : No toxicity to reproduction
No effects on or via lactation
Animal testing showed no reproductive toxicity.
Information given is based on data obtained from similar substances.

Teratogenicity : Animal testing showed no developmental toxicity.
Information given is based on data obtained from similar substances.


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Toxicity of Other Components
Naphthalene

Exposure to naphthalene can cause cataracts, liver damage, kidney failure, respiratory failure, hematuria, anemia, damage to red blood cells, leukocytosis, or coma.

Petroleum Solvent

May cause irritation to the eyes, skin and respiratory system. Excessive inhalation causes headache, dizziness, nausea and loss of motor skills.

Target Organs
Active Ingredients

S-Metolachlor: Liver

Inert Ingredients

Naphthalene: Eye, liver, respiratory tract, blood, CNS

Petroleum Solvent: Eye, skin, respiratory system, central nervous system

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

Material	IARC	NTP	OSHA
Naphthalene	2B	X	

SECTION 12. ECOLOGICAL INFORMATION
Aquatic Toxicity
S-Metolachlor

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 1.23 mg/l
96 h EC50	:	Algae 0.077 mg/l
48 h EC50	:	Daphnia magna (Water flea) 11.24 mg/l


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Naphthalene

96 h LC50	:	Fish (unspecified species) 0.96 mg/l
ErC50	:	
8 d NOEC	:	Lemna gibba (duckweed) > 16 mg/l
48 h EC50	:	Daphnia magna (Water flea) 2.19 mg/l OECD Test Guideline 202
40 d	:	NOE Fish (unspecified species) 0.37 mg/l
125 d	:	NOEC Daphnia pulex (Water flea) 0.59 mg/l

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified
: no data available

21 d : NOEC Daphnia magna (Water flea) 0.48 mg/l

Environmental Fate

Naphthalene

Biodegradability	:	not rapidly degradable OECD Test Guideline 302 Not readily biodegradable.
Bioaccumulation	:	Bioaccumulation is unlikely.

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified

Biodegradability : 58.6 % OECD Test Guideline 301
Not readily biodegradable.
Information given is based on data obtained from similar substances.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Dispose of contents/container to an approved waste disposal plant in accordance with local, regional and national legislations.

Waste disposal methods - Container : Container Refilling and Disposal:
Refer to the product label for instructions.
Do not re-use empty containers.
Do not transport if this container is damaged or leaking.



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In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

Contaminated packaging : Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA
Packages < 1700 gal. - Not regulated
Packages > 1700 gal.
Proper Shipping Name: RQ Other Regulated Substances, Liquid, N.O.S. (Naphthalene)
Hazard Class: Class 9
Identification Number: NA 3082
Packing Group: PG III

Comments

Water Transport - International
Proper Shipping Name:
< 1700 gal.
Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metolachlor), Marine Pollutant
> 1700 gal.
RQ Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metolachlor, Naphthalene), Marine Pollutant
Hazard Class: Class 9
Identification Number: UN 3082
Packing Group: PG III

Air Transport
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (s-Metolachlor)
Hazard Class: Class 9
Identification Number: UN 3082
Packing Group: PG III

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US Environmental Protection Agency (USEPA) and various state regulatory

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agencies, and is therefore also subject to certain requirements under US and state pesticide laws, including the Federal Insecticide Fungicide and Rodenticide Act (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is information determined by USEPA, and various states.

Caution

Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes and clothing. May cause skin sensitization reactions in certain individuals.

SARA 313 Regulated Chemical(s) : Naphthalene

CERCLA Reportable Quantity : 10001 lbs
Based on the percentage composition of this chemical in the product.:
Naphthalene

California Prop. 65 : WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer.

SECTION 16. OTHER INFORMATION

™ Trademark of E.I. du Pont de Nemours and Company.

Revision Date : 03/22/2017

Contact person : DuPont Crop Protection, Wilmington, DE, 19805, Phone: 1-888-638-7668

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.

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



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