

METALLIS™ PFX

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

PRODUCT NAME: MetallIS™ PFX
DESCRIPTION: Liquid Herbicide
EPA Reg. No.: 91234-183
COMPANY IDENTIFICATION: Atticus, LLC
 5000 CentreGreen Way, Suite 100
 Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Causes serious eye irritation (H319)
 May be harmful if swallowed and enter airways (H305)
 Suspected of causing cancer (H351)
 Combustible liquid (H227)
 Very toxic to aquatic life (H400)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Serious eye damage / irritation	2A	Flammable liquid	4
Aspiration	2	Environmental Hazards	Category
Carcinogenicity	2	Hazardous to the aquatic environment, short-term (acute)	1

HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow to come in contact with oxidizing agents. Hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

Do not handle until all safety precautions have been read and understood. (P202)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Wear eye protection and other protective clothing as described in Section 8 of this document. (P280)

Wash hands and exposed skin thoroughly after handling. (P264)

IF IN EYES: Rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. (P305+P351+P338+P337+P313)

IF SWALLOWED: Immediately call a POISON CENTER / doctor. Do NOT induce vomiting. (P301+P310+P331)

2. HAZARD IDENTIFICATION (continued)

IF exposed or concerned: Get medical advice / attention. (P308+P313)
 Store locked up. (P405)
 Avoid release to the environment in a manner not in accordance with the product label. (P273)
 Collect spillage. (P391)
 Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
S-Metolachlor	Acetamide, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-, (S)-	87392-12-9	46.4%
Fomesafen	5-[2-chloro-5-(trifluoromethyl)phenoxy]-N-(methylsulphonyl)-2-nitrobenzamide	72178-02-0	10.2%
Naphthalene	-	91-20-3	< 5.0%

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call SafetyCall®: **1-844-685-9173**. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: **1-800-424-9300**.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Do not give **any** liquid to the person. Do not induce vomiting unless told to do so by the poison center or doctor. Do not give anything by mouth to an unconscious person.

Note to Physician: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

5. FIREFIGHTING MEASURES

Flash Point: 77°C (170°F)

Flammability Limits: Not determined.

Fire and Explosion Hazards: None known.

Extinguishing Medium: Water fog, foam, dry chemical, or carbon dioxide (CO₂).

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff. Decontaminate fire fighting gear and personal protective equipment before reuse.

Hazardous Combustion Products: Irritating and possibly toxic gases may be generated through combustion or thermal decomposition.

NFPA Ratings: Health – 2 / Flammability – 2 / Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain.

Spill Cleanup: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g., commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Handling: Do not get in eyes or on clothing. Avoid contact with skin. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Storage: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Applicators, and other handlers must wear: eye protection; chemical resistant gloves; long-sleeved shirt and long pants; shoes plus socks.

General: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	transparent amber liquid
Odor:	aromatic bitter
Melting / Freezing Point:	not applicable
Boiling Point / Range:	not available
Flammability:	not applicable
Flam. Limits (upper/lower):	not available
Flash Point:	77°C (170°F)
Auto-Ignition Temp.:	not determined
Decomposition Temp.:	not available
pH:	6 – 7
Viscosity:	not available
Solubility:	insoluble (Fomesafen) 0.48 g/L (S-Metolachlor)
Partition Coefficient:	not available
Vapor Pressure:	not available
Density:	1.03-1.07 g/cm ³ 8.6-8.9 lbs/gal
Vapor Density:	not available
Particle Char.:	not available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: No data available.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD₅₀): 5000 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 5050 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 2.58 mg/L (4-hour)

EYE IRRITATION: Severely irritating (rabbit)

SKIN IRRITATION: Practically non-irritating (rabbit)

SKIN SENSITIZATION: Not a contact sensitizer (guinea pig)

CARCINOGENICITY:

NTP: Group 2. Reasonably anticipated to be human carcinogen (naphthalene)

IARC: Group 2B. Possible for humans (naphthalene)

EPA: Not listed

MUTAGENIC TOXICITY: Studies indicate not mutagenic.

REPRODUCTIVE TOXICITY: Animal testing showed no reproductive toxicity.

TERATOGENICITY: Animal testing showed effects on embryo-fetal development at all levels equal to or above those causing maternal toxicity.

12. ECOLOGICAL INFORMATION

This pesticide is highly toxic to aquatic plants.

S-metolachlor is known to leach through soil into ground water under certain conditions as a result of label use. Fomesafen is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

The following information is for the active ingredient, S-Metolachlor:

Rainbow Trout (96-hour LC₅₀): 1.23 mg/L

Water Flea (48-hour EC₅₀): 11.24 mg/L

Green Algae (96-hour LC₅₀): 0.077 mg/L

The following information is for the active ingredient, Fomesafen:

Rainbow Trout (96-hour LC₅₀): 680 mg/L

Water Flea (48-hour EC₅₀): 294 mg/L

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used must be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US-DOT:

Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

Containers > 1.3 gal. (5 L) and < 119 gal. (450 L) shipped "ground only":

Not regulated

Containers > 1.3 gal. (5 L) shipped all or in part by vessel:

Shipping Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (S-metolachlor, naphthalene), 9, PG III, Marine Pollutant
Hazardous Substance RQ: 100 lbs. (approximately 225 gallons of product)

Emergency Guide: 171

Containers > 119 gal. (450 L) shipped "ground only":

Shipping Description: NA1993, Combustible liquid, N.O.S. (S-metolachlor, naphthalene), PG III, Marine Pollutant

Hazardous Substance RQ: 100 lbs. (approximately 225 gallons of product)

Emergency Guide: 128

IMDG:

Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

Containers > 1.3 gal. (5 L):

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (S-metolachlor, naphthalene), 9, PG III, Marine Pollutant

14. TRANSPORT INFORMATION (continued)

IATA:

Containers ≤ 1.3 gal. (5 L) in strong outer packaging:

Not regulated

Containers > 1.3 gal. (5 L):

Shipped internationally by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (S-metolachlor, naphthalene), 9, PG III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

FIFRA -

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING/AVISO Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

Ground Water Advisory

Fomesafen and S-metolachlor is known to leach through soil into ground water under certain conditions as a result of label use.

Surface Water Advisory

S-metolachlor may impact surface water quality due to spray drift and runoff of rain water. This product is classified as having high potential for reaching surface water via runoff for several months after application.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow to come in contact with oxidizing agents. Hazardous chemical reaction may occur.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III - Section 302 Extremely Hazardous Substances
Not listed

SARA Title III - Section 311/312 Hazard Categories

Immediate, Delayed, Fire

SARA Title III - Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III - Section 313 Reportable Ingredients

Fomesafen (CAS No. 72178-02-0): 10.2%

Naphthalene (CAS No. 91-20-3): < 5.0%

15. REGULATORY INFORMATION *(continued)*

CERCLA Reportable Quantity (RQ) –

Naphthalene (CAS No. 91-20-3): 100 lbs. (approximately 225 gallons of product)

CALIFORNIA PROP 65 STATUS –

⚠ WARNING: This product can expose you to chemicals including naphthalene, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.1

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Manufactured for:
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