

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Metallis
DESCRIPTION: Liquid Herbicide
EPA REG. NO.: 91234-52
COMPANY IDENTIFICATION: Atticus, LLC
 940 NW Cary Parkway, Suite 200
 Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Suspected of causing cancer (H351)
 May cause damage to organs through prolonged or repeated exposure. (H373)
 May cause respiratory irritation. (H335)
 May cause an allergic skin reaction (H317)
 Causes eye irritation (H320)
 May be harmful if swallowed (H303)
 Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION

Health Hazards

Acute toxicity, oral
 Serious eye damage / eye irritation
 Skin sensitization
 Carcinogenicity
 Specific target organ toxicity, single exposure
 Specific target organ toxicity, repeated exposure

Category

5
 2B
 1B
 2
 3
 2

Physical Hazards

None

Category

-

Environmental Hazards

Hazardous to the aquatic environment, short-term
 Hazardous to the aquatic environment, long-term

Category

1
 1

HAZARDS NOT REQUIRING CLASSIFICATION

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

PRECAUTIONARY STATEMENTS

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

Wear protective clothing as described in Section 8 of this document. (P280)

Do not breath mist/vapors/sprays. Use only outdoors or in a well-ventilated area. (P260+P271)

Contaminated work clothing should not be allowed out of the workplace. (P272)

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

Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)

IF exposed or concerned: Get medical advice/attention. (P308+P313)

Get medical advice/attention if you feel unwell. (P314)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell (P304+P340+P312)

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. For specific treatment see Section 4 of this document. Take off contaminated clothing and wash it before reuse. (P302+P352+P333+P313+P321+P362+P364)

IF IN EYES: Rinse 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: Call a POISON CENTER/doctor if you feel unwell. (P301+P312)

Store locked up. (P405)

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	(S)-2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide	87392-12-9	83.7%
Naphthalene	Naphthalene	91-20-3	<1.0%
Petroleum Solvent	Petroleum Solvent	64742-94-5	<10.0%

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. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information.

IF INHALED: Move person 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 further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

4. FIRST AID MEASURES *(cont.)*

IF IN 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. If irritation continues, call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

5. FIREFIGHTING MEASURES

Fire and Explosion Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Medium: Foam, dry chemical, or carbon dioxide (CO₂). If water is used to fight fire, dike and collect runoff.

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.

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

NFPA Ratings: Health – 2 / Flammability – 1 / 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, any waterways or low areas. Do not flush to drain or soil. Contain contaminated water.

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: Avoid contact with skin, eyes or clothing. Wear protective eyewear. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: This product may be stored at temperatures down to 30 degrees below 0°F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use effective engineering controls to comply with occupational exposure limits (if applicable). 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: long-sleeved shirt and long pants, chemical-resistance gloves made of barrier laminate or Viton ≥ 14 mils, and shoes plus socks.

General: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	golden brown liquid
Odor:	sweet
Melting/freezing point:	not determined
Boiling point/Boiling range:	not determined
Flammability:	not determined
Flammability limits (upper/lower):	not determined
Flash point:	> 200°F (Setflash)
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	5-7 (1% disp. @ 25°C)
Kinematic viscosity:	not determined
Solubility:	0.48 g/l @ 25°C
Partition coefficient:	not determined
Vapor pressure:	2.8 x 10 ⁻⁵ mmHg @ 25°C
Density:	1.09 g/cm ³ @ 20°C
Relative vapor density:	not determined
Particle characteristics:	not available
Explosive Properties:	not available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

CHEMICAL STABILITY: Stable at normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, irritating and possible toxic gases may be generated by thermal decomposition or combustion.

HAZARDOUS POLYMERIZATION: Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

ORAL TOXICITY (rat LD₅₀): 3,425 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 2,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 2.61 mg/L (4-hour)

EYE IRRITATION: Moderately Irritating (Rabbit)

SKIN IRRITATION: Slightly Irritating (Rabbit)

SKIN SENSITIZATION: Sensitizing (Guinea Pig)

CARCINOGENICITY:

NTP: Anticipated Carcinogen (Naphthalene)

IARC: Group 2B Possible Human Carcinogen (Naphthalene)

EPA: Group C – Possible Human Carcinogen (S-metolachlor)

MUTAGENIC TOXICITY: Not available.

REPRODUCTIVE TOXICITY/TERATOGENICITY: Did not show reproductive effects in animal experiments.

11. TOXICOLOGICAL INFORMATION *(cont.)*

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:

S-Metolachlor: Liver

Inert Ingredients

Naphthalene: Eye, liver, kidney, respiratory tract, blood, central nervous system

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

12. ECOLOGICAL INFORMATION

This pesticide is highly toxic to non-target plants. No significant bioaccumulation is expected. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water.

The following information is for the active ingredient, s-metolachlor:

AQUATIC TOXICITY

Fish (96-hr LC_{50}): 1.23 mg/L

Green Algae (96-hr ErC_{50}): 0.077 mg/L

Invertebrate (48-hr EC_{50}): 11.24 mg/L

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

CONTAINER DISPOSAL: Nonrefillable container. See container labeling for complete disposal instructions.

14. TRANSPORT INFORMATION

UN Number:	UN3082
Proper Shipping Name:	Environmentally hazardous substance, solid, N.O.S. (contains s-metolachlor, naphthalene)
Transport Hazard Class:	9
Packing Group:	III
Hazard Zone:	A
Marine Pollutant:	Yes ¹
Hazardous Substance RQ:	Naphthalene (10,000 gal product)
Labels / Placards:	US-DOT: Class 9 Environmentally Hazardous Substance ² IMDG, IATA: Class 9 Environmentally Hazardous Substance ³
Emergency Guide:	171 (NAERG – North American Emergency Response Guide)

¹Marine Pollutant Note:

Ground-only shipments are excluded from Marine Pollutant labeling requirements as per 49CFR§172.101 Appendix B(4). For any shipments involving all or part of the transport by vessel, the shipment must be classified as a Marine Pollutant unless a limited quantity exemption applies (see note 3 below).

²US-DOT Note:

Not regulated for “ground only” shipments

³IMDG / IATA Note:

Not regulated when shipped in single or inner packaging ≤ 1.3 gal (5L)

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

CAUTION. Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes, skin, or clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

Groundwater advisory:

S-metolachlor 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.

Surface water advisory:

S-metolachlor has the potential to contaminate surface water through ground spray drift. Under some conditions, the active ingredient may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application.

PHYSICAL AND CHEMICAL HAZARDS:

Do not mix or allow 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

15. REGULATORY INFORMATION *(cont.)*

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

Naphthalene <0.2% (CAS No. 91-20-3)

CERCLA Reportable Quantity (RQ) –

Naphthalene <0.2% (CAS No. 91-20-3): RQ 100 lbs. (10,000 gal of product)

CALIFORNIA PROP 65 STATUS –



WARNING: This product can expose you to 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: 1.0

Effective Date: 08/30/2019



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