



SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Aquesta XL
DESCRIPTION: A solid herbicide
EPA REG. NO.: 91234-42
COMPANY IDENTIFICATION: Atticus, LLC
 5000 CentreGreen Way, Suite 100
 Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Harmful if swallowed (H302)
 Causes eye irritation (H320)
 May cause damage to organs through prolonged or repeated exposure (H373)
 Very toxic to aquatic life (H400)
 Toxic to aquatic life with long lasting effects (H411)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Acute Toxicity, Oral	4	None	--
Serious eye damage/eye irritation	2B		
Specific target organ toxicity – repeated exp.	2	Environmental Hazards	Category
		Hazardous to the aquatic environment, short-term	1
		Hazardous to the aquatic environment, long-term	2

HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur. Dust may form explosive air-dust mixture. May support combustion at elevated temperatures.

PRECAUTIONARY STATEMENTS

Wash hands and exposed skin thoroughly after handling. Do not eat drink or smoke when using this product. (P264+P270)

Do not breathe dust. Get medical advice / attention if you feel unwell. (P260+P314)

IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell. Rinse mouth. (P301+P312+P330)

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2. HAZARD IDENTIFICATION (continued)

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)
 Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)
 Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Sulfentrazone	N-{2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl}methanesulfonamide	122836-35-5	62.2%
Chlorimuron ethyl	Ethyl 2-[[[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]benzoate	90982-32-4	7.8%

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, 24 hours per day, 7 days per week for emergency medical treatment information. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424-9300.

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.

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. Call a poison control center or doctor for treatment advice.

5. FIREFIGHTING MEASURES

Fire and Explosion Hazards: Not flammable. Dust may form explosive air-dust mixture. May support combustion at elevated temperatures.

Extinguishing Medium: Water spray, foam, dry powder, or carbon dioxide (CO₂).

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5. FIREFIGHTING MEASURES (continued)

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: Oxides of carbon and nitrogen. May release irritating and toxic vapors due to thermal decomposition.

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: Keep people and animals away from and upwind of spill/leak. Prevent further spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Under certain conditions this chemical can leach through soil and contaminate ground water. For guidance contact your State Water Board or Regional Office of the EPA.

Spill Cleanup: Contain spilled material if possible. Prevent formation of dust with water mist or moist sweeping compound. Small spills: Pick up by shovel. Collect in suitable and properly labeled containers. Large spills may necessitate the removal of topsoil. See Section 13 for additional information.

7. HANDLING AND STORAGE

Handling: Do not get into eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling before eating, drinking, chewing gum, using tobacco or using the toilet.

Storage: Store product in original container only. Keep container closed when not in use, away from food or feed, fertilizer and other pesticides. Store in a cool dry place and avoid excess heat. Do not store below 30°F.

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: long-sleeved shirt and long pants, protective eyewear, waterproof gloves, and shoes plus socks.

General: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. 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:	solid granules
Odor:	sweet, brown sugar-like
Melting / Freezing point:	not applicable
Boiling Point / Boiling Range:	not determined

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Flammability:	not flammable
Flammability Limits (upper/lower):	not determined
Flash Point:	not applicable
Auto-ignition Temperature:	not determined
Decomposition Temperature:	not determined
pH:	5.0 (1% aq.)
Kinematic Viscosity:	not determined
Water Solubility:	not determined
Partition coefficient:	not determined
Vapor Pressure:	not determined
Bulk Density:	0.62 g/mL
Relative Vapor Density:	not determined
Particle Characteristics:	not determined

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat, sparks and creation of dust. Avoid mixing or contact with oxidizing agents.

CHEMICAL STABILITY: Stable under normal temperatures and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen and sulfur; hydrogen chloride and hydrogen fluoride.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on a substantially similar product: **ORAL TOXICITY (rat LD₅₀):** 1,750 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 5,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 2.07 mg/L 4hr

EYE IRRITATION: moderately irritating

SKIN IRRITATION: moderately irritating

SKIN SENSITIZATION: Not a contact sensitizer

CARCINOGENICITY:

NTP: Not listed **IARC:** Not listed

EPA: Group E – Evidence of non-carcinogenicity for humans (sulfentrazone)

MUTAGENIC TOXICITY: Animal and bacterial testing did not show any mutagenic effects.

REPRODUCTIVE TOXICITY / TERATOGENICITY: No evidence of reproductive effects in animal studies.

Sulfentrazone: Fetal weight decreased; delayed skeletal ossification observed at maternally non-toxic doses are reversible effects and a dose-response is established; malformations observed in fetuses at maternally toxic doses and consistent with the mode of action for protoporphyrone oxidase inhibitors.

Chlorimuron ethyl: Maternal and fetal NOELS were 250 ppm on reduced maternal and fetal body weights. It was weakly teratogenic in rats and non-teratogenic in rabbits.

OTHER TOXICITY: Prolonged exposure to sulfentrazone caused decreased hemoglobin content and hematocrit and increased spleen weight and splenic extramedullary hematopoiesis at high doses in animal studies.

12. ECOLOGICAL INFORMATION

This pesticide is toxic to marine/estuarine invertebrates and very toxic to non-target terrestrial and aquatic plants.

Sulfentrazone and chlorimuron-ethyl are known to leach through soil into groundwater under certain conditions as a result of label use.

The following information is for the active ingredient, sulfentrazone:

AQUATIC TOXICITY

Rainbow Trout (96-hour LC_{50}): > 130 mg/L Bluegill (96-hour LC_{50}): 93.8 mg/L

Daphnia (48-hour LC_{50}): 60.4 mg/L

AVIAN TOXICITY

Bobwhite Quail (8-d LC_{50}): > 5620 mg/kg Mallard Duck (8-d LD_{50}): > 5620 mg/kg

The following information is for the active ingredient, chlorimuron-ethyl:

AQUATIC TOXICITY

Fish (LC_{50}): > 10 ppm Fish (NOAEC): 8.2 ppm Daphnia (EC_{50}): > 10 ppm

Daphnia (NOAEC): 0.106 ppm Green alga (EC_{50}): 0.00077 ppm Duckweed (EC_{50}): 0.00027 ppm

AVIAN TOXICITY

Bird (Acute LD_{50}): > 2510 ppm Bird (Dietary LC_{50}): > 5620 ppm Bird (NOAEC): 180 ppm

OTHER TOXICITY

Bees (contact LD_{50}): 12.5 µg/bee

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product that cannot be used should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures. For more information, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. See container labeling for complete disposal instructions.

14. TRANSPORT INFORMATION

UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S. (contains chloransulam-ethyl and sulfentrazone)

Transport Hazard Class: 9

Packing Group: III

Hazard Zone: A

Marine Pollutant: Yes¹

Hazardous Substance RQ: None

Labels / Placards: US-DOT: Class 9 Environmentally Hazardous Substance²
IMDG, IATA: Class 9 Environmentally Hazardous Substance³

Emergency Guide: 171 (NAERG – North American Emergency Response Guide)

¹ **Marine Pollutant Note:** Ground-only shipments are excluded from Marine Pollutant labeling requirements as per 49CFR§172.101

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14. TRANSPORT INFORMATION (continued)

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).

² **US-DOT Note:**

Not regulated for “ground only” shipments.

³ **IMDG / IATA Note:**

Not regulated when shipped in single or inner packaging ≤ 11 lbs. (5 kg).

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. Harmful if swallowed. Causes moderate eye irritation. Do not get into eyes, on skin, or on clothing. See inside label booklet for additional precautionary statements.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to marine/estuarine invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

SURFACE WATER ADVISORY

Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several too many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

GROUND WATER ADVISORY

This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Do not use on coarse soils classified as sand which have less than 1% organic matter.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

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15. REGULATORY INFORMATION (continued)

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 (Acute), Delayed (Chronic)

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

Not listed

CERCLA Reportable Quantity (RQ)

None

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the state of California to cause cancer or reproductive harm.

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

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