

# Cryptoid<sup>TM</sup> XL

## SAFETY DATA SHEET

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

### 1. IDENTIFICATION

**PRODUCT NAME:** Cryptoid XL  
**DESCRIPTION:** Liquid insecticide  
**EPA REG. NO.:** 91234-295  
**COMPANY IDENTIFICATION:** Atticus, LLC  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513

### 2. HAZARD IDENTIFICATION

#### DANGER

May be fatal if swallowed and enters airways (H304)  
May cause an allergic skin reaction (H317)  
Causes serious eye irritation (H319)  
Causes skin irritation (H315)  
May cause damage to organs (H371)  
May cause damage to organs through prolonged or repeated exposure (H373)  
Suspected of causing cancer (H351)  
Toxic if inhaled (H331)  
Harmful if swallowed (H302)  
Very toxic to aquatic life with long lasting effects (H400+H410)



#### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Aspiration hazard	1	Flammable liquids	4
Skin sensitization	1B		
Serious eye damage / eye irritation	2A	<b>Environmental Hazards</b>	<b>Category</b>
Skin corrosion / irritation	2	Hazardous to the aquatic environment, short-term	1
Specific target organ toxicity – single exposure	2	Hazardous to the aquatic environment, long-term	1
Specific target organ toxicity – repeated exposure	2		
Carcinogenicity	2		
Acute toxicity, inhalation	3		
Acute toxicity, oral	4		

#### HAZARDS NOT REQUIRING CLASSIFICATION

None

#### PRECAUTIONARY STATEMENTS

Obtain, read and follow all safety instructions before use. (P203)

Do not breathe mist/spray. Wash hands and exposed skin thoroughly after handling. Do not touch eyes. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective clothing as described in Section 8 of this document. (P260+P264+P265+P270+P271+P272+P280)

**IF ON SKIN:** Wash with plenty of water. If skin irritation or rash occurs: Get medical help. Specific treatment (See Section 4 for additional medical information). Take off contaminated clothing and wash it before reuse. (P302+P352+P333+P317+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 help. (P305+P351+P338+P337+P317)

**IF SWALLOWED:** Get emergency medical help immediately. Rinse mouth. Do NOT induce vomiting. (P301+P316+P330+P331)

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately. Specific treatment is urgent (See Section 4 for additional medical information). (P304+P340+P316+P321)

**IF exposed or concerned:** Get emergency medical help immediately. (P308+P316)  
Avoid release to the environment not in accordance with the product label.  
Collect spillage. (P273+P391)

Store locked up. (405)

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
Beta-Cyfluthrin	Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (R)-cyano(4-fluoro-3-phenoxyphenyl) methyl ester, (1S)	1820573-27-0	12.70%
Cyclohexanone		108-94-1	20.0%
Naphthalene		91-20-3	< 8.0%

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

### 4. FIRST AID MEASURES

**IF SWALLOWED:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. 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.

**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.

**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.

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**.

**NOTE TO PHYSICIAN: ANTIDOTE** – No specific antidote is available. Treat symptomatically. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

## 5. FIREFIGHTING MEASURES

**Flash Point:** 67°C

**Fire and Explosion Hazards:** None known.

**Extinguishing Medium:** Foam, dry chemical, and water spray.

**Fire Fighting Equipment:** Firefighters should wear full protective clothing and self-contained breathing apparatus.

**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. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**Hazardous Combustion Products:** Not available.

**NFPA Ratings:** Health – 3 / 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. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

**Spill Cleanup:** Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Do not get in eyes or on clothing. Remove and wash contaminated clothing before reuse. Avoid breathing dust, vapor or spray mist. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**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

**Control parameters:**

Chemical Name	CAS No.	Control parameters	Update	Basis
Beta-Cyfluthrin	68359-37-5	50 µg/m³ (ST ESL)	10 2003	TX ESL
Beta-Cyfluthrin (Particulate.)	68359-37-5	50 µg/m³ (ST ESL)	10 2003	TX ESL
Beta-Cyfluthrin (Particulate.)	68359-37-5	5 µg/m³ (AN ESL)	10 2003	TX ESL
Beta-Cyfluthrin	68359-37-5	5 µg/m³ (AN ESL)	10 2003	TX ESL
Cyclohexanone	108-94-1	20 ppm (TWA)	02 2012	ACGIH
Cyclohexanone	108-94-1	50 ppm (STEL)	02 2012	ACGIH
Cyclohexanone	108-94-1	100 mg/m³ / 25 ppm (REL)	2010	NIOSH
Cyclohexanone	108-94-1	200 mg/m³ / 50 ppm (PEL)	02 2006	OSHA Z1
Cyclohexanone	108-94-1	100 mg/m³ / 25 ppm (TWA)	1989	OSHA Z1A
Cyclohexanone	108-94-1	100 mg/m³ / 25 ppm (TWA)	06 2008	TN OEL
Cyclohexanone	108-94-1	20 ppb (AN ESL)	07 2011	TX ESL
Cyclohexanone	108-94-1	80 µg/m³ (ST ESL)	07 2011	TX ESL
Cyclohexanone	108-94-1	480 µg/m³ (ST ESL)	07 2011	TX ESL

Chemical Name	CAS No.	Control parameters	Update	Basis
Cyclohexanone	108-94-1	120 ppb (ST ESL)	07 2011	ESL
Cyclohexanone	108-94-1	100 mg/m³ / 25 ppm (TWA PEL)	08 2010	US CA OEL
Naphthalene	91-20-3	10 ppm (TWA)	02 2012	ACGIH
Naphthalene	91-20-3	15 ppm (STEL)	02 2012	ACGIH
Naphthalene	91-20-3	10 ppm (TWA)	02 2013	ACGIH NIC
Naphthalene	91-20-3	50 mg/m³ / 10 ppm (REL)	2010	NIOSH
Naphthalene	91-20-3	75 mg/m³ / 10 ppm (REL)	2010	NIOSH
Naphthalene	91-20-3	50 mg/m³ / 10 ppm (PEL)	02 2006	OSHA Z1
Naphthalene	91-20-3	75 mg/m³ / 15 ppm (STEL)	1989	OSHA Z1A
Naphthalene	91-20-3	50 mg/m³ / 10 ppm (TWA)	1989	OSHA Z1A
Naphthalene	91-20-3	75 mg/m³ / 15 ppm (STEL)	06 2008	TN OEL
Naphthalene	91-20-3	50 mg/m³ / 10 ppm (TWA)	06 2008	TN OEL
Naphthalene	91-20-3	10 ppb (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	38 ppb (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	50 µg/m³ (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	200 µg/m³ (ST ESL)	07 2011	TX ESL
Naphthalene	91-20-3	75 mg/m³ / 15 ppm (STEL)	08 2010	US CA OEL
Naphthalene	91-20-3	50 mg/m³ / 10 ppm (TWA PEL)	08 2010	US CA OEL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5		10 2003	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5		10 2003	TX ESL

**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, chemical-resistant gloves made of barrier laminate or viton ≥ 14mils, shoes plus socks, and protective eyewear.

**General:** 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

<b>Appearance:</b>	straw yellow liquid
<b>Odor:</b>	moderately aromatic
<b>Melting/freezing point:</b>	not available
<b>Boiling point/Boiling range:</b>	not available
<b>Flammability:</b>	not available
<b>Flammability limits (upper/lower):</b>	not available
<b>Flash point:</b>	67°C; 152°F
<b>Auto-ignition temperature:</b>	not available
<b>Decomposition temperature:</b>	not available
<b>pH:</b>	4.5-5.5
<b>Capillary viscosity:</b>	7.02 cP @ 24°C 4.70 cP @ 39°C
<b>Solubility:</b>	not available
<b>Vapor pressure:</b>	not available
<b>Density:</b>	7.87 lb/gal (0943 g/cm³)
<b>Relative vapor density:</b>	not available
<b>Particle characteristics:</b>	not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Heat, flames, and sparks.

**CHEMICAL STABILITY:** Stable under all normal use and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** No data available.

**HAZARDOUS DECOMPOSITION PRODUCTS:** No data available.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

The following data is from a substantially similar product:

**ORAL TOXICITY (rat LD<sub>50</sub>):** 647-695 mg/kg

**DERMAL TOXICITY (rabbit LD<sub>50</sub>):** > 2,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** 0.7 mg/L (4-hr)

**EYE IRRITATION:** Severe eye irritation (Rabbit)

**SKIN IRRITATION:** Moderate skin irritation (Rabbit)

**SKIN SENSITIZATION:** Sensitizing (Guinea pig)

**CARCINOGENICITY:**

**EPA:** Not likely to be carcinogenic to humans (beta-cyfluthrin)

**ACGIH:** Cyclohexanone (Group A3) **NTP:** Naphthalene

Naphthalene (Group A4)

**IARC:** Cyclohexanone (Group 3) **OSHA:** Not Listed

Naphthalene (Group 2B)

**SPECIFIC TARGET ORGAN TOXICITY-SINGLE OR REPEATED EXPOSURE:** Neurotoxic effects were seen in both general animal toxicology studies and studies specially designed to measure neurotoxicity for beta-cyfluthrin. Neurotoxic effects were generally the most sensitive effects for beta-cyfluthrin, as seen in all species, routes, and exposure durations tested.

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

**DEVELOPMENTAL / REPRODUCTIVE TOXICITY:** Developmental effects have been observed in some animal studies.

## 12. ECOLOGICAL INFORMATION

This pesticide is toxic to birds, fish, and aquatic invertebrates.

The following information is for the active ingredient, Beta-cyfluthrin:

**AQUATIC TOXICITY**

Rainbow trout (LC<sub>50</sub> 96-hour): 0.089 mg/L

Bluegill sunfish (96-hour LC<sub>50</sub>): 0.028 mg/L

Daphnia (48-hour LC<sub>50</sub>): 0.00029-0.0018 mg/L

**AVIAN TOXICITY**

Japanese quail (Acute Oral LD<sub>50</sub>): >2,000 mg/kg-bw

**MOBILITY IN SOIL**

Beta-Cyfluthrin is classified as immobile compound in soils.

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should 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:**

Container ≤ 119 Gal. (450 Liters): Not regulated

Container ≥ 119 Gal. (450 Liters): NA1993, Combustible liquid, N.O.S.  
(Contains beta-cyfluthrin, cyclohexanone, naphthalene)

RQ: 150 Gal. of product

**IMDG:**

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (beta-cyfluthrin, cyclohexanone solution), 9, PG III, Marine Pollutant

**IATA:**

Shipped by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (beta-cyfluthrin, cyclohexanone solution), 9, PG III, Marine Pollutant

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.** May be fatal if swallowed. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Harmful if inhaled. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Do not get in eyes or on clothing. Remove and wash contaminated clothing before reuse. Avoid breathing (dust, vapor or spray mist). Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic invertebrates.

This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds.

**PHYSICAL OR CHEMICAL HAZARDS**

DO NOT use or store near heat or open flame. Do not mix or allow to come in contact with any oxidizing agent. 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 (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**

Naphthalene (CAS No. 91-20-3): 0.1%

**CERCLA Reportable Quantity (RQ) –**

Cyclohexanone (CAS No. 108-94-1): 5,000 lbs.

Naphthalene (CAS No. 91-20-3): 100 lbs.

**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](http://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

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