

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** Cyd-X HP  
**EPA Registration No.** 70051-112  
**Product Type:** Bio-insecticide  
**Active Ingredient:** *Cydia pomonella* granulosus virus  
**CAS No.:** Not applicable

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses:** Bio-insecticide  
**Uses advised against:** Any use not listed on the label

**1.3. Details of the supplier of the safety data sheet**

**Name:** Certis U.S.A., LLC  
**Address:** 9145 Guilford Road, Suite 175  
Columbia, Maryland 21046  
U.S.A.  
**Phone Number:** +01 (800) 255-3924  
**Website:** <http://www.certisusa.com>

**1.4. Emergency telephone number**

**Emergency number:** +1 800 255-3924

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Hazard Classification:** Not classified as hazardous by OSHA  
**EPA Signal Word:** Caution (see section15)  
**Hazard Statements:** None  
**Pictogram:** None  
**Precautionary Statements:** Harmful if inhaled. Avoid breathing spray mist. Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**2.2 Other Hazards:** None Known

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Component	CAS#	% by weight
<i>Cydia pomonella</i> granulosis virus	Not applicable	0.06

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

- Generic measures** Call poison control center or doctor for treatment advice. Have the product container with you when calling or going to a treatment center.
- Eye Contact:** Immediately flush with water holding eye open for 15-20 minutes. Remove contact lenses after 5 minutes if present and continue rinsing eye.
- Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
- Inhalation:** Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible.
- Ingestion:** Call poison control center or doctor for treatment advice. Have the product container with you when calling or going to a treatment center

**4.2. Most important symptoms and effects, both acute and delayed**

Eye irritation

**4.3. Indication of any immediate medical attention and special treatment needed**

None known

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media:** Water mist, alcohol resistant foam, dry powder, carbon dioxide

**Unsuitable Extinguishing Media:** None known

**5.2. Special hazards arising from the substance or mixture**

**Hazardous combustion products:** None known

**5.3. Advice for firefighters**

**Protection of Firefighters:** None specified

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel:** Use personal protection as indicated in Section 8.

**For emergency responders:** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

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

**6.3. Methods and material for containment and cleaning up**

**Methods for Containment:** Recover free product. Use absorbent material to minimize runoff of product.

**Methods for Clean-Up:** Do not allow wash water to contaminate water supplies. Dispose of in accordance with local regulations for disposal of non-hazardous waste

**Other Information:** None

**6.4. Reference to other sections**

See Section 8 for occupational exposure limits and risk management measures. Refer to Section 13 for disposal considerations.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

- After handling wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove contaminated clothing promptly and wash separately before reuse.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in original sealed containers only. Store in a cool dry area that is inaccessible to children and pets. Store at temperatures below 86°F. Bioactivity may be impaired by storage above 86°F. Storing the product in freezer or refrigerator will extend shelf life.

**7.3. Specific end use(s)**

Those uses listed on the label.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**OSHA Permissible Exposure Limits (PELs):** Not determined

ACGIH Threshold Limit Values: Not determined

Other Exposure Limits: None known

**8.2. Exposure controls**

**Engineering Controls:** When handlers use closed systems or enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6), the handler PPE requirements may be reduced or modified as specified in the WPS. **IMPORTANT:** when reduced PPE is worn because closed system is being used, handlers must be provided all PPE specified above for “applicators and other handlers” and have such PPE immediately available for use in case of an emergency, such as a spill or equipment break-down.

**Personal Protective Equipment** Applicators and other handlers:

**Eye/Face Protection:** Protective eyewear, safety glasses or goggles

**Skin Protection** Long sleeved shirt and long pants

**Hand Protection:** Waterproof gloves

**Body Protection:** Shoes plus socks

**Respiratory Protection:** Applicators must wear a dust/mist respirator meeting NIOSH standards of at least N-95, R- 95, or P-95.

**Thermal Hazards:** None

**General Hygiene Considerations:** Wash clothing and PPE immediately after use and before reuse.

**Environmental exposure controls:** Follow manufacturer’s instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance:** Brown liquid  
**Odour:** Mild earthy  
**Odour Threshold:** Not determined  
**pH:** 6.0-7.0  
**Melting Point / Freezing Point:** Not determined  
**Initial Boiling Point:** Not determined

<b>Boiling Range:</b>	Not determined
<b>Flash Point:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not applicable
<b>Lower &amp; Upper Flammability Limits:</b>	Not applicable
<b>Vapour Pressure:</b>	Not determined
<b>Vapour Density:</b>	Not determined
<b>Density:</b>	1.05 -1.15 g/ml
<b>Solubility:</b>	99%
<b>Partition Coefficient (n-octanol/water):</b>	Not known
<b>Auto-ignition Temperature:</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined
<b>Viscosity:</b>	Not determined
<b>Explosive Properties:</b>	None known
<b>Oxidising Properties:</b>	None known

**9.2. Other information**

Not available.

**SECTION 10: Stability and reactivity**

<b><u>10.1. Reactivity</u></b>	Not reactive
<b><u>10.2. Chemical stability</u></b>	Stable
<b><u>10.3. Possibility of hazardous reactions</u></b>	None known
<b><u>10.4. Conditions to avoid</u></b>	Elevated temperatures
<b><u>10.5. Incompatible materials</u></b>	None known
<b><u>10.6. Hazardous decomposition products</u></b>	None known

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute Toxicity**

**Toxicological information on the substance or mixture:**

<b>LD<sub>50</sub> (oral)</b>	Toxicity not expected based on published literature.
<b>LD<sub>50</sub> (dermal)</b>	Toxicity not expected based on published literature.
<b>LC<sub>50</sub> (inhalation)</b>	Toxicity not expected based on published literature.

**Skin corrosion / irritation:** Non-irritating, Toxicity Category IV  
**Eye irritation:** Non-irritating, Toxicity Category IV  
**Respiratory or skin sensitization:** No data available.

**Other information on adverse health effects:**

**Carcinogenicity**

**NTP Listed:** Not applicable  
**IARC Listed:** Not applicable  
**OSHA:** Not applicable

**11.2 Reference to other sections**

See Section 4 for symptoms and acute and delayed effects.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Toxicity to non-target organisms not expected based on published literature and the known specificity of CpGV.

**12.2. Persistence and degradability**

Rapid degradation, in part due to inactivation from exposure to UV light.

**12.3. Bioaccumulative potential**

Bioaccumulation not expected. Do not apply directly to water.

**12.4. Mobility in soil**

Granuloviruses have the ability to leach through soil but risk of reaching groundwater is low.

**12.5. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal Instructions:** Do not contaminate water, food, or feed by storage and disposal

*Pesticide Storage:* Store this product in original sealed container in a cool, dry place inaccessible to children and pets. Store at temperatures below 86°F. Bioactivity may be impaired by storage above 86°F. Storing the product in a freezer or refrigerator will extend its shelf life.

*Pesticide Disposal:* To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local government, or by industry.)

*Container Handling:* Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain 10

seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by State and local ordinances.

**SECTION 14: Transportation information**

**14.1. UN number**

Not regulated.

**14.2. UN proper shipping name**

Not regulated.

**14.3. Transport hazard class(es)**

Not regulated.

**14.4. Packing group**

Not regulated.

**14.5. Environmental hazards**

Not regulated.

**14.6. Special precautions for user**

Not regulated.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not regulated.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EPA:** This product is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticidal chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION, KEEP OUT OF REACH OF CHILDREN

Harmful if inhaled. Harmful if absorbed through skin. Causes moderate eye irritation.

Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

<b>OSHA:</b>	N/A
<b>TSCA Status:</b>	Exempt
<b>CERCLA Reportable Quantity:</b>	N/A
<b>SARA Title III:</b>	
Section 302:	N/A
Section 311/312:	N/A
Section 313:	N/A
<b>RCRA Status:</b>	N/A

**SECTION 16: Other information**

**Disclaimer:**

To the best of our knowledge, the information contained herein is accurate. However, neither Certis USA nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

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**SDS Prepared by:** Certis U.S.A. L.L.C.