



Safety Data Sheet - GHS

1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

PRODUCT NAME: ASANA® XL Insecticide
EPA REGISTRATION NUMBER: 59639-209
VC NUMBER(S): 1967
SYNONYM(S): DPX-YB656
PRODUCT DESCRIPTION: Insecticide

MANUFACTURER/DISTRIBUTOR
VALENT U.S.A. LLC
P.O. Box 8025
1600 Riviera Avenue, Suite 200
Walnut Creek, CA 94596-8025

EMERGENCY TELEPHONE NUMBERS
HEALTH EMERGENCY OR SPILL (24 hr):
(800) 892-0099
TRANSPORTATION (24 hr.): CHEMTREC
(800) 424-9300 or (202) 483-7616

PRODUCT INFORMATION
AGRICULTURAL PRODUCTS: (800) 682-5368

2. HAZARDS IDENTIFICATION

This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA-required classifications on the product label. Certain sections of this SDS are superseded by federal law under EPA FIFRA for a registered pesticide. Please see Section 15, REGULATORY INFORMATION for an explanation.

Classification - (per U.S. OSHA 29 CFR 1910.1200 (Hazcom 2012))

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 4

Label elements

EMERGENCY OVERVIEW

Danger



Hazard statements

Harmful if swallowed
Harmful if inhaled
May cause an allergic skin reaction
May be fatal if swallowed and enters airways
Flammable liquid and vapor

Precautionary statements**Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required.
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Response

IF EXPOSED OR CONCERNED: Get medical advice/attention

Eyes None.

Skin IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion Rinse mouth. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

FIRE In case of fire: Use CO2, dry chemical, or foam for extinction.

Spill None.

Storage

Store locked up
Store in a well-ventilated place. Keep cool

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other Information**

- Very toxic to aquatic life with long lasting effects.

For information on Transportation requirements, see Section 14.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	TRADE SECRET
Esfenvalerate	66230-04-4	8.4	
Solvent naphtha (petroleum), light aromatic	64742-95-6	12	
Other ingredients	Various CAS#s	80	*

* The chemical name, CAS number and/or exact percentage have been withheld as a trade secret

Other ingredients, which may be maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identities are withheld because they are

considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(800) 892-0099** at any time.

4. FIRST AID MEASURES

EMERGENCY NUMBER (800) 892-0099

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

EYE CONTACT:

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.

SKIN CONTACT:

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.

INGESTION:

Call a poison control center or doctor immediately for treatment advice. Have 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 to an unconscious person.

INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN:

Contains petroleum distillates - vomiting may cause aspiration pneumonia. For skin irritation: dry the skin and apply a vitamin E cream or oil containing a minimum of 15% vitamin E. If vitamin E cream or oil is not available, apply corn or vegetable oil liberally over any painful area of skin.

5. FIRE FIGHTING MEASURES

Flash point °C	66 °C
Flash point °F	151 °F
FLASH POINT METHOD:	Tag closed cup
EXTINGUISHING MEDIA:	Dry chemical, carbon dioxide, alcohol foam or water spray. High volume water jet extinguisher is unsuitable due to contamination risk.
OSHA FLAMMABILITY CLASS:	IIIA

NFPA RATING:

Health:	1
Flammability:	2
Reactivity:	0
Special:	None

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: hydrogen cyanide (HCN),

6. ACCIDENTAL RELEASE MEASURES

VALENT EMERGENCY PHONE NUMBER: (800) 892-0099

CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300

OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the North American Emergency Response Guidebook.

UN/NA NUMBER: Not applicable

EMERGENCY RESPONSE GUIDEBOOK NO.: Not applicable

CONTAINMENT: In case of a spill or leak, soak up with sand, earth or synthetic absorbent. Do not use alkaline absorbent. Large spills should be collected mechanically (remove by pumping). Prevent material from entering sewers, waterways, or low areas.

CLEANUP: All flushing and clean-up residuals should be collected for proper disposal to prevent soil and surface, ground and sewer water contamination. Never return spills in original containers for re-use. Dispose of in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

HANDLING:

Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Remove PPE immediately after handling this product. Wash thoroughly and put on clean clothing. Wash the outside of gloves before removing.

Avoid exposure to skin as product may cause sensitization.

Flammable. Heating can release vapors which can be ignited

STORAGE:

Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Do not store or transport near food or feed. Do not contaminate food or feed. Keep in the original container. Store in a cool, dry, secure place, out of the direct sunlight. Do not store in or around the home. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

Mixers, loaders, applicators and other handlers should refer to the product label before use for detailed information on personal protective equipment (PPE).

EYES & FACE: Do not get this material in your eyes. Eye contact can be avoided by wearing safety goggles or a face shield.

RESPIRATORY PROTECTION: Use this material only in well ventilated areas. If ventilation is not adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

SKIN & HAND PROTECTION: Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including long pants, long-sleeved shirt and shoes plus socks, and chemical-resistant gloves.

Remove contaminated clothing. Wash before reuse.

ENGINEERING CONTROLS: Use in a well ventilated area.

EXPOSURE LIMITS

Chemical name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Esfenvalerate	None	None	None
Solvent naphtha (petroleum), light aromatic	None	None	None
Other ingredients	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Odor	Oily, aromatic
Appearance	Viscous	Odor threshold	No information available
Color	Light amber		

PROPERTIES	Values	Remarks • Method
pH	5.14	
Melting point/freezing point	No information available	
Boiling point/boiling range	No information available	
Flash point	66 °C 151 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limits	No information available	
Lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	No information available	
Water solubility	0.002 mg/L at 25 °C (77 °F)	Dispersible in water
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	
Liquid Density	No information available	
Bulk density	No information available	

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable at normal temperatures and storage conditions.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

Hazardous thermal decomposition products: Hydrogen cyanide (hydrocyanic acid). Decomposes by reaction with alkaline solutions.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

The acute toxicity information is for this product formulation.

Oral Toxicity LD ₅₀ (rats)	458 mg/kg	EPA Tox Category	II
Dermal Toxicity LD ₅₀ (rabbits)	> 2,000	EPA Tox Category	III
Inhalation Toxicity LC ₅₀ (rats)	2.93 mg/L (4 hour)	EPA Tox Category	IV
Eye Irritation (rabbits)	Slightly irritating	EPA Tox Category	IV
Skin Irritation (rabbits)	Non-irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Negative	EPA Tox Category	Not available

CARCINOGEN CLASSIFICATION

Chemical name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
Esfenvalerate	Not Listed	Not listed	Not listed
Solvent naphtha (petroleum), light aromatic	Not listed	Not listed	Not listed
Other ingredients	Not listed	Not Listed	Not listed

TOXICITY OF ESFENVALERATE TECHNICAL

SUBCHRONIC: This product contains a cyano-pyrethroid call esfenvalerate. Esfenvalerate is a nervous system toxin that produced salivation, diarrhea, weakness, ataxia, tremors, and convulsions in test animals exposed to lethal or near lethal single doses. Similar effects are also observed in subchronic tests with laboratory animals. Workers exposed acutely to pyrethroids have experienced temporary skin paresthesia with abnormal sensations including burning, tingling or itching.

CHRONIC/CARCINOGENICITY: Esfenvalerate was not carcinogenic in tests with laboratory animals.

NEUROTOXICITY: Based upon studies conducted on Esfenvalerate, there is no evidence of neuropathology at any dose level.

DEVELOPMENTAL TOXICITY: Esfenvalerate did not produce birth defects in tests with laboratory animals.

REPRODUCTION: Esfenvalerate showed no effects to reproductive performance in a three generation study (rats).

MUTAGENICITY: Tests on bacterial or mammalian cell cultures did not show mutagenic effects

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

12. ECOLOGICAL INFORMATION

AQUATIC ORGANISM TOXICITY: This product is extremely toxic to fish and other aquatic organisms. Tests with Asana XL Insecticide have been conducted in the following species:

LC₅₀ (96 hour), Rainbow Trout: 0.0048 mg/L;
EC₅₀ (48 hour), D.subspicatus/green algae: 0.0215 mg/L

EC₅₀ (48 hour), Daphnia magna: 0.025 mg/L

OTHER NON-TARGET ORGANISM TOXICITY:

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

OTHER ENVIRONMENTAL INFORMATION:

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters. See Directions for Use on product label for additional precautions and restrictions.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Refer to pesticide label for proper container disposal instructions based on container type and size. Some container types and sizes may be refillable.

DISPOSAL METHODS: Check government regulations and local authorities for approved disposal of this material. Dispose of in accordance with applicable laws and regulations.

14. TRANSPORTATION INFORMATION

DOT (ground) SHIPPING NAME: When in non-bulk containers: NOT REGULATED, EXEMPTION REQUIREMENT: 49 CFR 173.150 bulk containers (>119 gal capacity): NA 1993, Combustible liquid, n.o.s. (Xylene), 3, III; In bulk tankers: RQ, NA 1993, Combustible liquid, n.o.s. (Xylene), 3, III (RQ for Xylene = 100 lb.)

EMERGENCY RESPONSE GUIDEBOOK NO.:

128

ICAO/IATA SHIPPING NAME: UN 3082, Environmentally hazardous substance, liquid, n.o.s., (esfenvalerate), 9, III, marine pollutant

REMARKS: •Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations -- see UN Special Provision 375. •For U.S. shipping, Emergency Response Guidebook No. 171.

IMDG SHIPPING NAME: UN 3082, Environmentally hazardous substance, liquid, n.o.s., (esfenvalerate), 9, III, marine pollutant

REMARKS:

EMS# F-A, S-F
Flash point = 66 ° C

15. REGULATORY INFORMATION

EPA-FIFRA LABEL INFORMATION THAT DIFFERS FROM OSHA-GHS REQUIREMENTS:

Pesticide products in the U.S. are registered by the EPA under FIFRA and are subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required by OSHA GHS for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the FIFRA pesticide label:

EPA FIFRA SIGNAL WORD: WARNING

- *May be fatal if swallowed*
- *Harmful if inhaled*
- *Do not get in eyes, on skin or on clothing*
- *Avoid breathing vapors or spray.*

PESTICIDE REGULATIONS: All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

U.S. FEDERAL REGULATIONS: Ingredients in this product are reviewed against an inclusive list of federal regulations. Therefore, the user should consult appropriate authorities. The federal regulations reviewed include: Clean Water Act, SARA, CERCLA, RCRA, DOT, TSCA and OSHA. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

SARA (311, 312):

Immediate Health:	Yes
Chronic Health:	Yes
Fire:	Yes
Sudden Pressure:	No
Reactivity:	No

STATE REGULATIONS: Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list. For Washington State Right to Know, see Section 8 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

For information regarding potential adverse health effects from exposure to this product, refer to Sections 2 and 11.

16. OTHER INFORMATION

REASON FOR ISSUE:	Updated Section 3. Updated SDS with new toxicology data. Edits in Section 2 and 11. Added a VC number.
SDS NO.:	0472
EPA REGISTRATION NUMBER:	59639-209
REVISION NUMBER:	4
REVISION DATE:	10/15/2019
SUPERCEDES DATE:	10/15/2019
RESPONSIBLE PERSON(S):	Valent U.S.A. LLC, Corporate EH&S, (925) 256-2803

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Valent U.S.A. LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law,

neither Valent U.S.A. LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Valent U.S.A. LLC to confirm that you have the most current product label and SDS.

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 as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom").

The product label provides information specifically for product use in the ordinary course. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label.

2019 Valent U.S.A. LLC