



**Safety Data Sheet - GHS**

**1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY**

**PRODUCT NAME:** Fierce® XLT Soybean Herbicide  
**EPA REGISTRATION NUMBER:** 59639-194  
**PRODUCT CODE:** 88709  
**VC NUMBER(S):** 1922, 1956, 2046  
**SYNONYM(S):** V-10364 Herbicide

is a Registered trademark of Valent U.S.A. Corporation

**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 Certain sections of this SDS are superseded by federal law under EPA FIFRA for a registered pesticide.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 - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2B
Reproductive toxicity	Category 2

**Label elements**

**EMERGENCY OVERVIEW**

**WARNING**



**Hazard statements**

Harmful if inhaled  
 Suspected of damaging fertility or the unborn child  
 Causes mild eye irritation

### 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  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area

#### Response

IF exposed or concerned: Get medical advice/attention

**Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin** None.

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

**Ingestion** None.

**FIRE** None.

**Spill** None.

#### Storage

Store locked up

#### 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
- <5% of the mixture consists of ingredient(s) of unknown toxicity

For information on Transportation requirements see Section 14.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	TRADE SECRET
Flumioxazin	103361-09-7	23.5 - 25.9	
Chlorimuron-ethyl, ethyl 2-[[[(4-chloro-6-methoxy-2-pyrimidinyl) amino]carbonyl]amino]sulfonyl]benzoate	90982-32-4	6 - 8	
Pyoxasulfone	447399-55-5	31 - 32	
Ammonium sulfate	7783-20-2	2 - 8	
Other ingredients	NO CAS#	26 - 31	

\* 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:**

None

#### 5. FIRE FIGHTING MEASURES

**Flash point °C**

**FLASH POINT:** Not applicable

**Flash point °F**

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, foam, or water.

**NFPA RATING:**

Health:	1
Flammability:	1
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. Avoid inhalation of smoke and fumes. Prevent extinguishing media run off from entering drains, sewers, and bodies of water.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not determined

#### 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  
**FOR SPILLS OR LEAKS:**

**CONTAINMENT:** Reduce airborne dust. Avoid runoff into storm sewers or other bodies of water. Keep well ventilated. Wear proper personal protective equipment.

**CLEANUP:** Clean up spill immediately. Vacuum or sweep up material and place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container. Prevent wash water from entering surface water or drains. Wear proper personal protective equipment.

## 7. HANDLING AND STORAGE

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

**HANDLING:**

Keep pesticide in original container. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Store in a cool, dry place, out of direct sunlight.

Avoid dust generation. Like most organic powders or crystals, under severe dust conditions, this material may form explosive mixtures in air.

**STORAGE:**

Keep container closed when not in use. Do not store near food or feed. Store in a cool, dry place. Do not reuse empty container. Keep out of reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

**ENGINEERING CONTROLS: Applicators and all other handlers:** Refer to the product label for personal protective clothing and equipment.

**INFORMATION FOR END USERS**

**EYES & FACE:** Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

**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. For aerial application, mixers and loaders must also wear: PF 5 respirator

**SKIN & HAND PROTECTION:** Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of waterproof material such as polyethelen or polyvinyl chloride, socks and shoes.

**EXPOSURE LIMITS**

Chemical Name	ACGIH TLV	8 Hr. TWA:	Manufacturer's Exposure Limits
Flumioxazin	None	None	None
Chlorimuron-ethyl, ethyl 2-[[[(4-chloro-6-methoxy-2-pyrimidinyl) amino]carbonyl]amino]sulfonyl]benzoate	None	None	10 mg/m <sup>3</sup> 8 and 12 hour TWA (total dust); 5 mg/m <sup>3</sup> 8 and 12 hour TWA (respirable dust)

**Emergency Telephone:** (800) 892-0099  
**REVISION NUMBER:** 2

**SDS NO.:** 0442  
**REVISION DATE:** 06/09/2017

Pyoxasulfone	None	None	None
Ammonium sulfate	None	None	None
Other ingredients	None	None	None

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state** Solid  
**Appearance** Granules  
**Color** Brown and Cream  
**Odor** Musty  
**Odor threshold** No information available

<u>PROPERTIES</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	6.7	@ 24° C
<b>Melting point/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	No information available	
<b>Flash point</b>		
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	Product does not contain combustible liquids.	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limits</b>	No information available	
<b>Lower flammability limit</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Specific Gravity</b>	No information available	
<b>Water solubility</b>	Dispersible in water	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity</b>	Not Applicable	
<b>Explosive properties</b>	Product contains no explosive ingredients.	
<b>Oxidizing properties</b>	Product ingredients do not include oxidizing or reducing agents	
<b>Density</b>	No information available	
<b>Bulk density</b>	33.0 lb./ft <sup>3</sup>	

**10. STABILITY AND REACTIVITY**

**Reactivity**  
 No data available

**Chemical stability**  
 Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**  
 None under normal processing.

**Conditions to avoid**  
 Extremes of temperature and direct sunlight.

**Incompatible materials**  
 None known based on information supplied.

**Hazardous Decomposition Products**  
 None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY:

The following information is based on data available for the technical material or a similar formulation if followed by (product).

Oral Toxicity LD <sub>50</sub> (rats)	> 5,000 mg/kg (female)	EPA Tox Category	IV
Dermal Toxicity LD <sub>50</sub> (rats)	> 5,000 mg/kg (product)	EPA Tox Category	IV
Inhalation Toxicity LC <sub>50</sub> (rats)	> 2.06 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Moderately irritating	EPA Tox Category	III
Skin Irritation (rabbits)	Slightly irritating (product)	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Not a contact sensitizer.	EPA Tox Category	Not applicable

### CARCINOGEN CLASSIFICATION

Chemical Name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
Flumioxazin	Not listed	Not listed	Not listed
Chlorimuron-ethyl, ethyl 2-[[[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]benzoate	Not listed	Not listed	Not listed
Pyroxasulfone	Not listed	Not listed	Not listed
Other ingredients	Not listed	Not listed	Not listed
Ammonium sulfate	Not listed	Not listed	Not listed

### TOXICITY OF FLUMIOXAZIN TECHNICAL:

**SUBCHRONIC:** Compound related effects of Flumioxazin Technical noted in rats following subchronic exposures at high dose levels were hematotoxicity including anemia, and increases in liver, spleen, heart, kidney and thyroid weights. In dogs, the effects produced at high dose levels included a slight prolongation in activated partial thromboplastin time, increased cholesterol and phospholipid, elevated alkaline phosphatase, increased liver weights and histological changes in the liver. The lowest no-observable-effect-level (NOEL) in subchronic studies was 30 ppm in the three-month toxicity study in rats.

**CHRONIC/CARCINOGENICITY:** In a one year dog feeding study, Flumioxazin Technical produced treatment-related changes in blood chemistry and increased liver weights at 100 and 1000 mg/kg/day. Minimal treatment-related histological changes were noted in the livers of animals in the 1000 mg/kg/day group. Based on these data the NOEL is 10 mg/kg/day. Dietary administration of Flumioxazin Technical for 18 months produced liver changes in mice of the 3000 and 7000 ppm groups. There was no evidence of any treatment-related oncogenic effect. The NOEL for this study is 300 ppm. Dietary administration of Flumioxazin Technical for 24 months produced anemia and chronic nephropathy in rats of the 500 and 1000 ppm groups. The anemia lasted throughout the treatment period, however, it was not progressive nor aplastic in nature. No evidence of an oncogenic effect was observed. The NOEL for this study is 50 ppm.

**DEVELOPMENTAL TOXICITY:** Flumioxazin Technical produces developmental toxicity in rats in the absence of maternal toxicity at doses of 30 mg/kg/day by the oral route and 300 mg/kg/day by the dermal route. The developmental effects noted consisted primarily of decreased number of live fetuses and fetal weights, cardiovascular abnormalities, wavy ribs and decreased number of ossified sacrococcygeal vertebral bodies. The developmental NOEL in the rat oral and dermal developmental toxicity studies were 10 and 100 mg/kg/day, respectively. The response in rabbits was very different from that in rats. No developmental toxicity was noted in rabbits at doses up to 3000 mg/kg/day, a dose well above the maternal NOEL of 1000 mg/kg/day.

Mechanistic studies indicate that the effects seen in the rat are highly unlikely to occur in the human and that flumioxazin would not be a developmental toxicant in the human.

**REPRODUCTION:** Reproductive toxicity was observed in F1 males, P1 females and F1 females at 300 ppm

Flumioxazin Technical, the highest dose tested and a dose that also produced signs of systemic toxicity. Toxicity was also observed in the F1 and F2 offspring at doses of 200 ppm and greater.

**MUTAGENICITY:** Flumioxazin Technical was not mutagenic in most *in vitro* assays: gene mutation and a chromosome aberration assay in the absence of metabolic activation. In three *in vivo* assays, chromosome aberration, unscheduled DNA synthesis and micronucleus assay, Flumioxazin Technical was not mutagenic. The only positive response was observed in the *in vitro* chromosome aberration assay in the presence of metabolic activation. Overall, Flumioxazin Technical does not present a genetic hazard.

#### **TOXICITY OF PYROXASULFONE TECHNICAL:**

**SUBCHRONIC:** Pyroxasulfone related effects include increased AST, slight liver and kidney weight increases, increased cardiomyopathy, centrilobular hepatocellular hypertrophy and hyperplastic urinary bladder mucosa. The NOAEL in rats was 50 ppm. No neurotoxicity was observed at acute doses to rats as high as 2000 mg/kg.

**CHRONIC/CARCINOGENICITY:** Pyroxasulfone produced an increased incidence of urinary bladder transitional cell papillomas in male rats in a two-year carcinogenicity study.

**REPRODUCTION:** Pyroxasulfone did not produce effects on fertility or the embryo at the dosage of which general toxicity to parental animals was observed.

**MUTAGENICITY:** Pyroxasulfone is not mutagenic according to results for an *in vitro* reverse mutation test, chromosomal aberration test and *in vivo* mouse bone marrow micronucleus test.

#### **TOXICITY OF TOXICITY OF CHLORIMURON-ETHYL**

**CHRONIC/CARCINOGENICITY:** Chlorimuron ethyl technical was administered to rats for 2 years at dietary concentrations of 0, 25, 250 and 2500 ppm. This compound was not oncogenic at any dose. The NOEL was 250 ppm based on transient anemia observed during the first year of the study and slight body weight and organ weight changes. Chlorimuron ethyl technical was administered to mice for 18 months at dietary concentrations of 0, 12.5, 125 and 1250 ppm. There were no oncogenic effects or other effects observed at any dose. The NOEL was 1250 ppm, the highest dose tested. Chlorimuron ethyl technical was fed to dogs at dose levels of 0, 25, 250 or 1500 ppm in the diet. The NOEL was 250 ppm based on increased liver weight, clinical chemistry changes and anemia at the high dose.®

**DEVELOPMENTAL TOXICITY:** Rats were dosed via intubation at 0, 30, 150 or 600 mg/kg/day chlorimuron ethyl technical. The NOEL for maternal and fetotoxicity was 30 mg/kg/day based on reduced food consumption and body weight gain and increased frequency of fetal variations. There was a slight increase in the number of fetal malformations in the presence of overt maternal toxicity at the high dose. Although this was not statistically significant, it was considered to be a weak teratogenic response. In this study chlorimuron ethyl technical was not demonstrated to be a unique hazard to the conceptus. Rabbits were dosed via intubation at 0, 15, 60 or 300 mg/kg/day. There were no teratogenic effects at any dose. The NOELs for maternal and fetotoxicity were 60 and 15 mg/kg/day respectively. These were based on reduced body weight gain and increased frequency of fetal variations due to retarded development.

**REPRODUCTION:** Chlorimuron ethyl technical was administered in the diet at concentrations of 0, 25, 250 or 2500 ppm in a 2-generation rat reproduction study. Reproduction and lactation performance were not affected at any dose. The NOEL for maternal and fetotoxicity was 250 ppm. This was based on reduced maternal and fetal body weights and a compromised nutritional state among offspring at the high dose.

**MUTAGENICITY:** Chlorimuron ethyl technical was negative in the following genotoxicity tests: Ames bacterial assay, *in vitro* mutagenicity test in Chinese hamster ovary cells, *in vivo* cytogenetic assay (rat bone marrow cells), and *in vitro* unscheduled DNA synthesis (rat liver cells).

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

**AVIAN TOXICITY:** This product may be toxic to avian species.

**AQUATIC ORGANISM TOXICITY:** Components of this product may be moderately to highly toxic to aquatic organisms.

**OTHER NON-TARGET ORGANISM TOXICITY:** Based upon EPA designation, Flumioxazin Technical is practically non-toxic to bees. The acute contact LC50 in bees was greater than 105 µg/bee. Pyroxasulfone Technical is practically non-toxic to bees. The acute contact (48-hour) LD50 in bees was greater than 100 µg/bee.

### 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 apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

## 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:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into 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.

**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:** Not Regulated for domestic ground transport by US DOT or Canada TDG  
**EMERGENCY RESPONSE GUIDEBOOK NO.:** Not applicable

**ICAO/IATA SHIPPING NAME:** UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. (Flumioxazin), 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 IATA Special Provision A197
- For US shipping, Emergency Response Guidebook No. 171

**IMDG SHIPPING NAME:** UN 3077, Environmentally Hazardous Substance, Solid, N.O.S. (flumioxazin), Marine pollutant

**REMARKS:**

- Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations – see IMDG 2.10.2.7



EMS NO.: F-A, S-F

**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: CAUTION**

- *May be harmful if swallowed*
- *Minimally irritating to skin and eyes*
- *May be harmful if inhaled in excess.*
- *Avoid contact with eyes, skin and clothing*
- *Keep out of reach of children.*

**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.

<b>Chlorimuron-ethyl, amino]carbonyl]amino]sulfonyl]benzoate</b>	<b>ethyl 2-[[[(4-chloro-6-methoxy-2-pyrimidinyl)</b>
SARA 313 Chemicals	1.0% de minimis concentration
<b>Ammonium sulfate</b>	
TSCA Inventory List -	Present

**SARA (311, 312):**

Immediate Health:	Yes
Chronic Health:	No
Fire:	No
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.

<b>Chlorimuron-ethyl, amino]carbonyl]amino]sulfonyl]benzoate</b>	<b>ethyl 2-[[[(4-chloro-6-methoxy-2-pyrimidinyl)</b>
NJ Right To Know	3229

**Ammonium sulfate**

MA Right To Know	Present
PA Right To Know	Environmental hazard
RI Right To Know	Listed

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

**16. OTHER INFORMATION**

<b>REASON FOR ISSUE:</b>	Add VC numbers.
<b>SDS NO.:</b>	0442
<b>EPA REGISTRATION NUMBER:</b>	59639-194
<b>REVISION NUMBER:</b>	2
<b>REVISION DATE:</b>	06/09/2017
<b>SUPERCEDES DATE:</b>	05/20/2015
<b>RESPONSIBLE PERSON(S):</b>	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 Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (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 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. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. 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. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

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