

# **Safety Data Sheet**

# Belay® Insecticide

# 1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

PRODUCT NAME: Belay® Insecticide

**EPA REGISTRATION NUMBER:** 59639-150

**VC NUMBER(S):** 1700, 1707 & 1742

**SYNONYM(S):** V-10170 2.13 SC, Clutch® 2.13 SC

PRODUCT DESCRIPTION: Insecticide

Belay is a registered trademark of Sumitomo Chemical Company, Ltd.

MANUFACTURER/DISTRIBUTOR

VALENT U.S.A. CORPORATION

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

The current SDS is available through our website (www.valent.com), or by calling the product information numbers listed above.

### 2. HAZARDS IDENTIFICATION

#### For EPA FIFRA-specific information see Section 15

Classification

Acute toxicity - Oral Category 4

Label elements

**EMERGENCY OVERVIEW** 

### WARNING

Hazard statements

Harmful if swallowed

### **Precautionary Statements - Prevention**

Read product label prior to using this product. For specific handling instruction refer to Section 7, Handling and Storage

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### **Precautionary Statements - Response**

See Section 4, First Aid Measures

### **Precautionary Statements - Storage**

For information on Storage and Handling see Section 7.

### **Precautionary Statements - Disposal**

For further information on product and container disposal see Section 13.

### Hazards not otherwise classified (HNOC)

#### Other Information

- Very toxic to aquatic life
- Very toxic to aquatic life with long lasting effects

25% 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 Number	Weight/ Percent	TRADE SECRET
Clothianidin	210880-92-5	22.3-23.7	
Inert/Other Ingredients	No CAS#	76.3-77.7	

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.

### 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 by mouth to an unconscious person.

0369 **Emergency Telephone:** (800) 892-0099 SDS NO.: **REVISION NUMBER: REVISION DATE:** 05/11/2015

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#### **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:**

Treatment is supportive and symptomatic.

## 5. FIRE FIGHTING MEASURES

Flash point °C 93.33 °C Flash point °F 200 °F

FLASH POINT METHOD: SetaFlash Closed Cup

**AUTOIGNITION:** > 150° C (302°F) (the technical material decomposes at 150° C)

Self-Ignition temperature: 208° C (406.4°F)

FLAMMABLE LIMITS IN AIR - LOWER (%):

FLAMMABLE LIMITS IN AIR - UPPER (%):

Not applicable

**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:** Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse.

**HAZARDOUS DECOMPOSITION PRODUCTS:** carbon dioxide, May form toxic materials such as: hydrogen chloride oxides of sulfur, oxides of nitrogen, carbon monoxide, various hydrocarbons, etc.

# 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 ON LAND:

**CONTAINMENT:** Avoid runoff into storm sewers and ditches which lead to waterways. Contain spilled liquids with dry sorbents. Reduce airborne dust. Avoid runoff into storm sewers or other bodies of water.

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**CLEANUP:** Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then 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. 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.

### FOR SPILLS IN WATER:

**CONTAINMENT:** This material is miscible in water. Stop or reduce contamination of any water. Isolate contaminated water. This material will disperse or dissolve in water. Stop the source of the release. Contain and isolate to prevent further release into soil, surface water and ground water.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

### 7. HANDLING AND STORAGE

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

#### **HANDLING:**

Do not reuse empty container. Open dumping is prohibited.

Use only in well ventilated area. Avoid contact with skin and eyes. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Keep out of reach of children.

### STORAGE:

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, away from heat, flame and strong acids.

Do not store at temperatures below 32°F. If the product is exposed to temperatures below 32°F, thaw at room temperature to 50°F or warmer and shake gently to unify the product.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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 operating conditions result in airborne concentrations of this material, the use of an approved respirator is recommended.

**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.

#### **EXPOSURE LIMITS**

Chemical Name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Clothianidin	None	None	None
Inert/Other Ingredients	None	None	None

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid

AppearanceFree-flowing viscousOdorFaint characteristic odorColorWhiteOdor thresholdNo information available

PROPERTIES <u>Values</u> <u>Remarks • Method</u>

**pH** 5.6 1% solution

Melting point/freezing point
Boiling point/boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
No information available
No information available
No information available
No information available

Flammability Limits in Air

Upper flammability limitsNot applicableLower flammability limitNot applicable

Vapor pressure
Vapor density
No information available

Decomposition temperature
Viscosity

No information available
23.6-133 cP at 20 °C and shear

rate between 61-1000 s-1

Explosive properties

No information available

Explosive properties

Oxidizing properties

No information available
No information available
1.11 g/cc @ 20° C

Bulk density No information available

#### 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**

Oxidizers.

### **Hazardous Decomposition Products**

May form toxic materials such as:. carbon dioxide (CO2), hydrogen chloride, oxides of sulfur, Nitrogen oxides (NOx), carbon monoxide, various hydrocarbons,. etc.

# 11. TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY:**

There is no toxicology information available for this product. The following information is for a similar product.

Oral Toxicity LD 50 (rats)	3044 mg/kg	EPA Tox Category	Ш
Dermal Toxicity LD 50 (rats)	> 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC 50 (rats)	> 2.13 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Non-irritating	EPA Tox Category	IV
Skin Irritation (rabbits)	Slightly irritating	EPA Tox Category	IV

Skin Sensitization (quinea pigs) Non-sensitizer **EPA Tox Category** Not applicable

#### CARCINOGEN CLASSIFICATION

Chemical Name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
Clothianidin	Not listed	Not Listed	Not listed
Inert/Other Ingredients	Not listed	Not listed	Not listed

#### TOXICITY OF CLOTHIANIDIN TECHNICAL

SUBCHRONIC: The NOEL in a 3-month rat feeding study with Clothianidin Technical was 27.9 mg/kg/day (male) and 34.0 mg/kg/day (female) The NOEL in a 90-day dog feeding study was 19.3 mg/kg/day (male) and 21.2 mg/kg/day (female). In a subchronic dermal study with rats, the NOAEL is > 1,000 mg/kg/day.

CHRONIC/CARCINOGENICITY: The Clothianidin NOEL for a 2-year rat study was 9.7 mg/kg/day (female); for a 18-month mouse study was 47.2 mg/kg/day (male) and for a 12-month dog study was 7.8 mg/kg/day (male). The principal target organs were the glandular stomach, kidney, ovary, and liver. No oncogenic effects were observed in the 2-year rat or 18-month mouse feeding studies.

**NEUROTOXICITY:** Clothianidin is not a neural toxin.

**DEVELOPMENTAL TOXICITY:** No teratogenic effects on rats or rabbits were observed. Transient developmental effects (delayed ossification) were observed in rabbits at maternally toxic doses (100 mg/kg/d). The technical material is fetotoxic in animal studies at maternally toxic doses.

**REPRODUCTION:** No reproductive effects were observed in rats at the highest dose tested (2500 ppm).

**MUTAGENICITY:** In vivo tests have demonstrated that the technical material is not mutagenic. Some in-vitro tests were positive for mutagenicity. The observed effects *in-vitro* were due to cytotoxic effects. The weight-of-evidence from the in vivo whole animal tests suggest that this product does not present a mutagenic hazard.

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:** The following results were obtained from studies with Clothianidin Technical:

LD 50 Japanese quail: = 430 mg/kg LD 50 Northern bobwhite: > 2000 mg/kg LC 50 Northern bobwhite: > 5200 ppm LC 50 Mallard duck: > 5200 ppm

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**REVISION DATE:** 

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AQUATIC ORGANISM TOXICITY: This product is toxic to aquatic invertebrates. The following are results from testing

of Clothianidin Technical:

Bluegill 96 hr. LC  $_{50}$ : > 120 mg/L Rainbow trout 96 hr. LC  $_{50}$ : > 100 mg/L Sheepshead minnow 96 hr. LC  $_{50}$ : > 100 mg/L

Water flea 48 hr. EC  $_{50}$ : 40 mg/L Mysid 96 hr. LC  $_{50}$ : = 0.053 mg/L Algae 72 hr. ErC  $_{50}$ : > 120 mg/L

Partition coefficient: log Pow=0.7 @ 25 C; Degradation in soil: DT 50: >140 days

OTHER NON-TARGET

**ORGANISM TOXICITY:** The following information is based on Clothianidin Technical:

Honeybee 48-hour oral LD 50: = 0.0037ug (microgram)/bee Honeybee 48-hour contact LD 50: = 0.044 ug (microgram)/bee

Earthworm 7-day LC 50: = 19 mg/kg dry soil

### 13. DISPOSAL CONSIDERATIONS

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

**PRODUCT DISPOSAL:** To avoid waste, use all material in the container by application according to label directions. 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 application equipment or a mix tank and drain for 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 2 more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or incineration. If burned, stay out of smoke.

**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 U.S. DOT

**EMERGENCY RESPONSE** 

GUIDEBOOK NO.: Not Applicable

ICAO/IATA SHIPPING NAME: UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Clothianidin), 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 U.S. shipping, Emergency Response Guidebook No. 171.

IMDG SHIPPING NAME: UN 3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Clothianidin), 9,

III, Marine Pollutant

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**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.

For U.S. Shipping, Emergency Response Guidebook No. 171

**EMS NO.:** F-A, S-F

# 15. REGULATORY INFORMATION

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

This material is a pesticide product registered by the EPA under FIFRA and is 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**

- · 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.

SARA (311, 312):

Immediate Health:YesChronic Health:YesFire:NoSudden Pressure:NoReactivity: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 information to meet OSHA Hazcom 2012 (GHS) regulations.

**SDS NO.:** 0369

**EPA REGISTRATION NUMBER:** 59639-150

REVISION NUMBER: 1

REVISION DATE: 05/11/2015 SUPERCEDES DATE: None

RESPONSIBLE PERSON(S): Valent U.S.A. Corporation, Corporate EH&S, (925) 256-2803

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.

Use, storage and disposal of pesticide products is regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling. All necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

The information in this SDS is based on data available to us as of the revision date given herein, and believed to be correct. Contact Valent U.S.A. Corporation to confirm if you have the most current SDS.

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