

# Safety Data Sheet

Belay<sup>®</sup> 50 WDG

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

PRODUCT NAME:Belay® 50 WDGEPA REGISTRATION NUMBER:59639-152VC NUMBER(S):1265SYNONYM(S):V-10170 50 WDGPRODUCT DESCRIPTION:InsecticideBelay 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

### **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	50	
Kaolin clay	1332-58-7	17.8 - 19.7	
Others	Various CAS#s	30.3 - 32.2	

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 by mouth 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 °F AUTOIGNITION:	Not applicable > 150° C (the technical material decomposes a	at 150° C)
Autolohimon.	Self-Ignition temperature: 208° C	
EXTINGUISHING MEDIA:	Dry chemical powder, carbon dioxide, foam. U none known.	Insuitable extinguishing media -
FLAMMABLE LIMITS IN AIR - LO	DWER (%):	Not applicable
FLAMMABLE LIMITS IN AIR - UI	PPER (%):	Not applicable
NFPA RATING:		
Health:	1	
Flammability:	0	
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:

This material is combustible. 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: May emit toxic gases and irritating fumes under fire conditions.

# 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:** Reduce airborne dust. Avoid runoff into storm sewers or other bodies of water.

**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.

### FOR SPILLS IN WATER:

**CONTAINMENT:** 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:

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.

Keep container tightly closed. Keep container in a cool well ventilated area. Stable at normal temperatures and storage conditions in closed original package.

Use only in well ventilated area. Avoid contact with skin and eyes. Do not breath dust.

### STORAGE:

Do not contaminate water, food, or feed by storage or disposal. Store product in original container in a cool, dry area away from children, pets and direct sunlight. Do not use or store near heat or open flame. Do not store near food or feed.

### 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. In case of dust formation use a dust mask.

**SKIN & HAND PROTECTION:** Avoid contact with skin or clothing. Skin contact can be minimized by wearing protective clothing including gloves.

ENGINEERING CONTROLS: Use in a well ventilated area.

### EXPOSURE LIMITS

Chemical Name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Clothianidin	None	None	None
Kaolin clay	2 mg/m <sup>3</sup> TWA (respirable fraction)	15 mg/m³ TWA 5 mg/m³ TWA	None
Others	None	None	None

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Appearance Color	Solid Granules Light tan	Odor Odor threshold	Odorless No information available
<u>PROPERTIES</u> pH	<u>Values</u> 6.4	<b><u>Remarks</u></b> @26 - 27°	
Melting point/freezing point	nt 176.8° C	(technical)	
Boiling point/boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limits in Air Upper flammability limit Lower flammability limit Vapor pressure	Not applicable No informatior No informatior s Not applicable	e n available n available e	echnical
Vapor density Specific Gravity Water solubility Solubility in other solvent Partition coefficient	No informatior 1.61 Dispersible in s No informatior log Pow=0.7	@ 20°C, To water	
Autoignition temperature	>150° C		
Decomposition temperatu	<b>re</b> 150° C		
Viscosity Explosive properties Oxidizing properties Density Bulk density	No information No information No information No information 3.4 lb/ft <sup>3</sup> @ 20	n available n available n available	

# **10. STABILITY AND REACTIVITY**

Reactivity No data available

<u>Chemical stability</u> Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

<u>Conditions to avoid</u> Extremes of temperature and direct sunlight.

### Incompatible materials

None known based on information supplied.

### **Hazardous Decomposition Products**

May emit toxic fumes under fire conditions.

# **11. TOXICOLOGICAL INFORMATION**

### ACUTE TOXICITY:

Oral Toxicity LD 50 (rats)	3900 mg/kg (male) 4700 mg/kg (female)	EPA Tox Category	III
Dermal Toxicity LD 50 (rats)	> 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC 50 (rats)	> 2.3 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Moderately irritating	EPA Tox Category	III
Skin Irritation (rabbits)	Slightly irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Non-sensitizer	EPA Tox Category	Not available

### **CARCINOGEN CLASSIFICATION**

Chemical Name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
Clothianidin	Not listed	Not Listed	Not listed
Kaolin clay	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.

**DEVELOPMENTAL TOXICITY:** 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. No teratogenic effects on rats or rabbits were observed.

**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

# AQUATIC ORGANISM TOXICITY: This product is toxic to aquatic invertebrates. The following are results from testing<br/>of Clothianidin Technical:<br/>Bluegill 96 hr. $LC_{50}$ : > 120 mg/L<br/>Rainbow trout 96 hr. $LC_{50}$ : > 100 mg/L<br/>Sheepshead minnow 96 hr. $LC_{50}$ : > 100 mg/L<br/>Water flea 48 hr. $EC_{50}$ : 40 mg/L<br/>Mysid 96 hr. $LC_{50}$ : > 120 mg/L<br/>Algae 72 hr. $ErC_{50}$ : > 120 mg/L<br/>Partition coefficient: log Pow=0.7 @ 25 C; Degradation in soil: DT $_{50}$ : >140 daysOTHER NON-TARGET<br/>ORGANISM TOXICITY:The following information is based on Clothianidin Technical:<br/>Honeybee 48-hour oral $LD_{50}$ : = 0.044 ug (microgram)/bee<br/>Honeybee 48-hour contact $LD_{50}$ : = 19 mg/kg dry soil

# 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 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 by 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.

44 TRANSDORTATION INFORMATION

14. TRANSPORTATION INFORMATION		
DOT (ground) SHIPPING NAME: EMERGENCY RESPONSE	Not regulated for domestic ground transport by U.S. DOT	
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	
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**

- May cause moderate eye irritation
- Harmful if inhaled or absorbed through skin.
- Avoid contact with eyes, skin and clothing.
- Avoid breathing dust or spray mist
- 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.

Present

### Kaolin clay

Yes No No	
No	
	No No 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.

### Kaolin clay

MA Right To Know	Present
NJ Right To Know	4016
PA Right To Know	Present
RI Right To Know	Listed
MN Hazardous Substance	Present

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.:	0352
EPA REGISTRATION NUMBER:	59639-152
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.

Judgments as to the suitability of information herein for the individual's own use or purposes are necessarily the individual's own responsibility. Although reasonable care has been taken in the preparation of such information, Valent extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the individual's purposes or the consequences of its use.

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