# Regiment® Herbicide



# Safety Data Sheet - GHS

### 1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

PRODUCT NAME: Regiment® Herbicide

**EPA REGISTRATION NUMBER:** 59639-105 **VC NUMBER(S):** 1177

SYNONYM(S): V-10029 80 S Herbicide; NOMINEE®

**PRODUCT DESCRIPTION:** Rice herbicide

Regiment is a registered trademark of Kumiai Chemical Industry Co., Ltd.

#### MANUFACTURER/DISTRIBUTOR

VALENT U.S.A. LLC P.O. Box 5075 4600 Norris Canyon Road San Ramon, CA 94583

#### **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

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 Certain sections of this SDS are superseded by federal law under EPA FIFRA for a registered pesticide.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))

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

Label elements

**EMERGENCY OVERVIEW** 

**Precautionary statements** 

**Prevention** None

Response

 Emergency Telephone:
 (800) 892-0099
 SDS NO.:
 0139

 REVISION NUMBER:
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 09/02/2020

Eyes None. Skin None. Inhalation None. Ingestion None. FIRE None. Spill None.

Storage

None

**Disposal** 

None

## Hazards not otherwise classified (HNOC)

### Other Information

20 % 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
Bispyribac-sodium	125401-92-5	77 - 83	
Others (including particulates not otherwise classified)	No CAS#	17 - 23	

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 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

### FIRE FIGHTING MEASURES

Flash point °C

Flash point °F Not applicable

**EXTINGUISHING MEDIA:** Water fog, carbon dioxide, foam, dry chemical

FLAMMABLE LIMITS IN AIR - LOWER (%): Not applicable FLAMMABLE LIMITS IN AIR - UPPER (%): Not applicable

NFPA RATING:

1 Health: 1 Flammability: 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. Read the entire document.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce: oxides of nitrogen,. Incomplete combustion can produce carbon monoxide.

### **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 on to soil or into surface water.

**Emergency Telephone:** (800) 892-0099 SDS NO.: 0139

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**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. Keep container closed when not in use. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 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.

#### STORAGE:

Keep pesticide in original container only. Keep container closed when not in use. Do not store near food or feed. Do not contaminate water, food or feed by storage or disposal. Not for use or storage in or around the home.

### **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 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 can be minimized by wearing protective clothing including gloves.

#### **EXPOSURE LIMITS**

Chemical name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Bispyribac-sodium	None	None	None
Others (including particulates not otherwise classified)	None	None	None

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid

Powder Odorless **Appearance** Odor

No information available No information available Color **Odor threshold** 

Remarks • Method **PROPERTIES** Values

1% (w/v) dilution in water all Solvent Solubility 8.84 Hq

values are @ 20° C

Melting point/freezing point (technical) 223-224° C

Boiling point/boiling range No information available

No information available Not Flash point

applicable

No information available **Evaporation rate** No information available Flammability (solid, gas)

Flammability Limits in Air

Upper flammability limits Not applicable Lower flammability limit Not applicable

Vapor pressure No information available Vapor density No information available **Specific Gravity** No information available

6.75 g/100 mL water (Technical) Water solubility

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available No information available **Viscosity Explosive properties** No information available **Oxidizing properties** No information available **Liquid Density** No information available

**Bulk density** 15.6 lb/ft3

### 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:**

Oral Toxicity LD 50 (rats) No data available **EPA Tox Category** Ш Dermal Toxicity LD 50 (rabbits) No data available **EPA Tox Category** Ш Inhalation Toxicity LC 50 (rats) No data available **EPA Tox Category** IV Eye Irritation (rabbits) Brief and/or minor irritation **EPA Tox Category** Ш Brief and/or minor irritation **EPA Tox Category** IV Skin Irritation (rabbits)

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

### **CARCINOGEN CLASSIFICATION**

IARC Group 1 or 2	OSHA - Select Carcinogens	NTP Carcinogen List
Not listed	Not listed	Not listed
Not listed	Not listed	Not listed
	Not listed	Not listed Not listed

#### TOXICTY OF BISPYRIBAC-SODIUM TECHNICAL

SUBCHRONIC: Bispyribac-sodium technical was tested in rats at dose levels of 0, 100, 1000, 10000, and 20000 ppm for 13 weeks. The NOEL was 100 ppm (7.2 mg/kg/day) in males and 1000 ppm (79.9 mg/kg/day) in female rats. Effects observed at higher doses included histopathological changes in the liver, urinary bladder and the bile duct; increased serum GOT, GPT and ALP; and reduced body weight gain. Bispyribac-sodium technical was also tested in dogs for 13 weeks at doses of 0, 30, 100 and 600 mg/kg/day. The NOEL was 100 mg/kg/day. Vomiting, salivation and loose stools were observed in animals exposed to 600 mg/kg/day. Histopathological changes in the liver were also noted in males at 600 mg/kg/day.

CHRONIC/CARCINOGENICITY: Bispyribac-sodium technical was tested in rats for 2 years at doses of 0, 20, 200, 3,500, and 7,000 ppm in males and 0, 20, 200, 5,000, and 10,000 ppm in females. The NOEL was 20 ppm (male 1.1 mg/kg/day, female 1.4 mg/kg/day). Effects observed at higher doses included decreased body weight gain; changes in hematological and blood biochemistry values; and histopathological lesions of the liver and bile duct. No neoplastic lesions were observed. Bispyribac-sodium technical was tested in mice for 18 months at doses of 0, 10, 100, 2,500, and 5,000 ppm. The NOEL was 100 ppm (14.1 mg/kg/day) in males and 10 ppm (1.7 mg/kg/day) in females. Effects observed at higher doses included reduced body weight gain; decreased liver weight; increased kidney weight; and histopathological changes in the liver. No neoplastic lesions were observed. A 52-week chronic toxicity study of bispyribac-sodium technical was conducted in dogs at doses of 0, 10, 100, and 750 mg/kg/day. The NOEL was 10 mg/kg/day. Effects observed at higher doses included salivation, vomiting and loose stools; increased liver weight; and histopathological changes in the bile duct.

**DEVELOPMENTAL TOXICITY:** Bispyribac-sodium technical was tested in a developmental toxicity study with rabbits at doses of 0, 30, 100 and 300 mg/kg/day. The NOEL for maternal toxicity was 100 mg/kg/day; and for developmental toxicity the NOEL was 300 mg/kg/day. Maternal toxicity included one death and premature delivery and slight depression of body weight gain.

Bispyribac-sodium technical was tested in a developmental toxicity study in rats at dose levels of 0, 100, 300 and 1000 mg/kg/day. The maternal NOEL was 300 mg/kg/day and the developmental NOEL was 1000 mg/kg/day. The maternal toxicity observed at 1000 mg/kg/day consisted of anogenital staining.

**REPRODUCTION:** A two-generation rat reproduction study was conducted with bispyribac-sodium technical at doses of 0, 20, 1000, and 10,000 ppm. The NOELs for systemic adult toxicity, offspring developmental parameters and reproductive toxicity were 20, 1000, and 10,000 ppm, respectively. Systemic adult toxicity included decreased body weight gain and food consumption; increased liver weight; and histopathological changes in the liver and bile duct. The growth of the F1 and F2 offspring was inhibited at 10,000 ppm.

**MUTAGENICITY:** Bispyribac-sodium technical was negative in the following assays: reverse mutation (Ames); CHO, chromosomal aberration (in vitro); unscheduled DNA synthesis; and micronucleus in mice (in vivo).

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:** Bispyribac-sodium technical is considered to be practically non-toxic to birds

based on tests in the following avian species:

Oral LD<sub>50</sub>, bobwhite quail: greater than 2250 mg/kg greater than 5620 ppm Dietary LC<sub>50</sub>, bobwhite quail: Dietary LC<sub>50</sub>, mallard duck: greater than 5620 ppm

**AQUATIC ORGANISM TOXICITY:** Bispyribac-sodium technical is considered practically non-toxic to fish and aquatic

invertebrates based on results in the following tests:

Blueaill sunfish 96 hr. LC50: greater than 100 ppm greater than 100 ppm Rainbow trout 96 hr. LC<sub>50</sub>: Daphnia magna 48 hr. LC<sub>50</sub>: greater than 100 ppm Sheepshead minnow 96 hr. LC<sub>50</sub>: greater than 100 ppm Mysid shrimp 96 hr. LC<sub>50</sub>: greater than 100 ppm Oyster shell deposition 96 hr. EC<sub>50</sub>: greater than 100 ppm

**OTHER NON-TARGET** 

The LC<sub>50</sub> of bispyribac-sodium technical in earthworms is greater than 1000 ppm. **ORGANISM TOXICITY:** 

The LD<sub>50</sub> (48h) of bispyribac-sodium technical on Honeybee is greater than >200

ug/bee.

#### OTHER ENVIRONMENTAL INFORMATION:

This product is toxic to non-target plants. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

#### **DISPOSAL CONSIDERATIONS** 13.

### 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: Non-refillable outer bag. Do not reuse or refill the outer bag. Completely empty bag into application equipment. Offer bag for recycling if available. If recycling is not available, then dispose of empty bag in a sanitary landfill or by incinerations, or, if allowed by State and local authorities, by burning. 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

**EMERGENCY RESPONSE** 

DOT (ground) SHIPPING NAME: Not regulated for domestic ground transport by U.S. DOT

**GUIDEBOOK NO.:** Not applicable

UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. **ICAO/IATA SHIPPING NAME:** (Bispyribac-sodium), 9, III, Marine Pollutant

•Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from **REMARKS:** 

> 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.

(Bispyribac-sodium), 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 US 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:

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**

- · Causes moderate eye irritation
- · Harmful if swallowed
- · Harmful if absorbed through skin
- Avoid contact with eyes or 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.

SARA (311, 312):

Immediate Health: Yes Chronic Health: Yes 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.

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.

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## Regiment® Herbicide

**EPA REGISTRATION NUMBER:** 59639-105

REVISION NUMBER: 2

**REVISION DATE**: 09/02/2020 **SUPERCEDES DATE**: 05/14/2015

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

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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.

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Emergency Telephone: (800) 892-0099 SDS NO.: REVISION NUMBER: 2 REVISION DATE: