

# **Safety Data Sheet**

### RESOURCE® Herbicide

### 1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

PRODUCT NAME: RESOURCE® Herbicide

**EPA REGISTRATION NUMBER**: 59639-82 **VC NUMBER(S)**: 1747

**SYNONYM(S):** S-23031 Herbicide; V-23031 Herbicide

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 - Inhalation (Vapors) | Category 3  |
|--------------------------------------|-------------|
| Germ cell mutagenicity               | Category 1B |
| Carcinogenicity                      | Category 1B |
| Aspiration toxicity                  | Category 1  |

### Label elements

#### **EMERGENCY OVERVIEW**

## **Danger**



#### **Hazard statements**

May be harmful if swallowed May be harmful in contact with skin Toxic if inhaled May cause genetic defects May cause cancer May be fatal if swallowed and enters airways

### **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

- · Toxic to aquatic life
- · 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 Number | Weight/ Percent | TRADE SECRET |
|---|------------|-----------------|--------------|
| Flumiclorac Pentyl Technical (98.6% a.i.) | 87546-18-7 | 10.1            |              |
| Total hydrocarbons                        | 64742-94-5 | 35 - 40         |              |
| 2-methylnaphthalene                       | 91-57-6    | 18 - 23         |              |
| Naphthalene                               | 91-20-3    | 10 - 15         |              |
| 1-methylnaphthalene                       | 90-12-0    | 6 - 12          |              |
| 2-Ethyl hexanol                           | 104-76-7   | 1 - 4           |              |
| Others                                    | No CAS#    | 1 - 10          |              |

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

0034 **Emergency Telephone:** SDS NO.: (800) 892-0099 **REVISION NUMBER: REVISION DATE:** 07/09/2015

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:

Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. 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:**

Contains petroleum distillates - vomiting may cause aspiration pneumonia. Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis. If ingested, probable mucosal damage may contraindicate the use of gastric lavage.

#### FIRE FIGHTING MEASURES 5.

Flash point °C > 93 °C Flash point °F > 200 °F

**FLASH POINT METHOD:** SetaFlash Closed Cup

Not applicable FLAMMABLE LIMITS IN AIR - LOWER (%): Not applicable FLAMMABLE LIMITS IN AIR - UPPER (%): OSHA FLAMMABILITY CLASS: Class IIIB

**NFPA RATING:** 

2 Health: 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.

SDS NO.: 0034 **Emergency Telephone:** (800) 892-0099 07/09/2015 **REVISION DATE:** 

**REVISION NUMBER:** 

**FIRE FIGHTING INSTRUCTIONS:** Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 85 degrees F.

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.

### 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.

**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.

#### FOR SPILLS IN WATER:

**CONTAINMENT:** This material forms an emulsion in water. Stop or reduce contamination of any water. Isolate contaminated water.

**CLEANUP:** Remove contaminated water for treatment or disposal.

### 7. HANDLING AND STORAGE

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

#### HANDLING:

Users should wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### STORAGE:

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Store in a cool, dry place. Keep pesticide in original container only. 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. Not for use or storage in or around the home.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

#### INFORMATION FOR END USERS

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

**EYES & FACE:** Appropriate eye protection must be worn when working with this material or serious harm can result. Wear protective eyewear.

**SKIN & HAND PROTECTION:** Do not get on skin or clothing. Skin contact should be minimized by wearing protective clothing including coveralls worn over short-sleeved shirt and short pants, socks, chemical-resistant footwear and chemical-resistant gloves such as barrier laminate or Viton >= 14 mils. Remove contaminated clothing. Discard clothing and other absorbent materials that may have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and was PPE separately from other laundry.

#### **EXPOSURE LIMITS**

| Chemical Name                             | ACGIH Exposure Limits  | OSHA Exposure Limits                                  | Manufacturer's Exposure<br>Limits |
|---|--|---|-----------------------------------|
| Flumiclorac Pentyl Technical (98.6% a.i.) | None   | None  | None                              |
| Total hydrocarbons                        | 100 mg/m³ TWA (17 ppm) TWA   | None  | None                              |
| 2-methylnaphthalene                       | Skin - potential significant contribution to overall exposure by the cutaneous route | None  | None                              |
| Naphthalene                               | 10 ppm TWA, 15 ppm STEL skin - potential for absorption                              | 10 ppm TWA,15 ppm STEL<br>50 mg/m³ TWA, 75 mg/m³ STEL | None                              |
| 1-methylnaphthalene                       | Skin - potential significant contribution to overall exposure by the cutaneous route | None  | None                              |
| 2-Ethyl hexanol                           | Skin - potential significant contribution to overall exposure by the cutaneous route | None  | None                              |
| Others                                    | Not known  | Not known   | Not known                         |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid

AppearanceClearOdorAromatic

Color Medium Brown to dark red Odor threshold No information available

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

**pH** 6.1 1% emulsion

Melting point/freezing pointNo information availableBoiling point/boiling rangeNo information availableFlash point> 93 °C / > > 200 °F

Emergency Telephone: (800) 892-0099 SDS NO.: 0034

(Flumiclorac pentyl technical)

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

Flammability Limits in Air

Upper flammability limits
Lower flammability limit
Vapor pressure

No information available
No information available
1.0 x 10-7 mmHg @ 22.4° C

Vapor densityNo information availableSpecific GravityNo information available

Water solubility Emulsifiable

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
No information available
No information available
No information available

Viscosity @ 25° C: 11 centipoise at 30 rpm;

Explosive properties
Oxidizing properties
Density
No information available
No information available
8.51 lbs/gal @ 20° C
No information available

#### 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive

#### **Chemical stability**

Stable under normal ambient conditions.

### **Possibility of Hazardous Reactions**

Not expected to be explosive. Hazardous polymerization does not occur.

### **Conditions to avoid**

Extremes of temperature and direct sunlight.

#### **Incompatible materials**

None known based on information supplied.

### **Hazardous Decomposition Products**

Products of combustion from fires involving this material may be toxic.

### 11. TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY:**

Oral Toxicity LD 50 (rats) Females: 3200 mg/kg EPA Tox Category III

Males: 4100 mg/kg

**EPA Tox Category** Dermal Toxicity LD 50 (rabbits) > 2000 mg/kg Ш Inhalation Toxicity LC 50 (rats) 5.51 ma/L **EPA Tox Category** IV Eve Irritation (rabbits) Moderately irritating **EPA Tox Category** Ш Skin Irritation (rabbits) Severely irritating **EPA Tox Category** Ш

Skin Sensitization (guinea pigs)

Non-sensitizer (Buehler)

EPA Tox Category

Not applicable

#### CARCINOGEN CLASSIFICATION

| Chemical Name                             | IARC  | OSHA - Select Carcinogens | NTP Carcinogen List |
|---|---|---------------------------|---------------------|
| Flumiclorac Pentyl Technical (98.6% a.i.) | Not listed  | Not listed                | Not listed          |
| Total hydrocarbons                        | Not listed  | Not listed                | Not listed          |
| 2-methylnaphthalene                       | Not listed  | Not listed                | Not listed          |
| Naphthalene                               | Monograph 82 [2002]<br>Group 2B<br>Reasonably Anticipated To Be A<br>Human Carcinogen | Carcinogen                | Suspect Carcinogen  |
| 1-methylnaphthalene                       | Not listed  | Not listed                | Not listed          |
| 2-Ethyl hexanol                           | Not listed  | Not listed                | Not listed          |
| Others                                    | Not Known   | Not listed                | Not known           |

#### TOXICITY OF FLUMICHLORAC PENTYL TECHNICAL

SUBCHRONIC: Compound-related effects noted at very high dose levels of Flumiclorac Pentyl Technical in rodents and/or dogs included: increased liver and kidney weights; histological changes in the kidney and liver; slight changes in blood biochemistry parameters; decreased red blood cell count, hemoglobin and hematocrit and slight decreases in body weight. The NOEL in rats and mice was 1000 ppm.

CHRONIC/CARCINOGENICITY: Effects of long-term high dose exposures to Flumiclorac Pentyl Technical in rodents and/or dogs consisted primarily of increases in kidney and liver weights, slight changes in blood biochemistry, and histological changes in the liver. The lowest NOEL was 300 ppm in the mouse study. Flumiclorac Pentyl Technical was not carcinogenic in either rats or mice.

**DEVELOPMENTAL TOXICITY:** No developmental toxicity was observed in rats or rabbits even at maternally toxic levels of Flumiclorac Pentyl Technical. In rabbits the maternal NOEL was 400 mg/kg/day and the developmental NOEL was 800 mg/kg/day. In rats the maternal and developmental NOELs were 1500 mg/kg/day.

REPRODUCTION: Reproductive toxicity (higher rate of F1 pup deaths on Day 0 of lactation) as well as systemic toxicity were observed in rats at doses of 10,000 and 20,000 ppm Flumiclorac Pentyl Technical in a two-generation rat reproduction study. A repeat study for one generation did not confirm the reproductive toxicity finding. Thus, Flumiclorac Pentyl Technical is not considered a reproductive toxicant.

MUTAGENICITY: Flumiclorac Pentyl Technical was not mutagenic in most assays: gene mutation (with and without S-9 activation), unscheduled DNA synthesis, in vitro chromosomal aberration (with S-9), and in vivo mouse micronucleus. Only a weak positive response was observed in the *in vitro* chromosomal aberration assay in the absence of S-9 metabolic activation. Overall, Flumiclorac Pentyl Technical is not a genetic hazard.

SDS NO.: 0034 **Emergency Telephone:** (800) 892-0099 07/09/2015 **REVISION DATE:** 

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#### **TOXICITY OF OTHER INGREDIENTS:**

This product contains a solvent. Solvents, when inhaled, can cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache and possibly unconsciousness and even death. Ingestion of solvents can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged or repeated dermal exposures may cause drying, scaling and even blistering of the skin. Aspiration of low viscosity products can cause chemical pneumonitis which can be fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Symptoms include fatigue, concentration difficulties, anxiety, depression, rapid mood swings and short-term memory loss. The reports are not clear with regard to the types of solvents that may cause these symptoms, and there is controversy amoung scientists to whether the condition exists or is caused by this type of product. Since many other diseases cause some or all of these conditions, a doctor should be consulted if any appear. Acute exposure to naphthalene by inhalation, ingestion, and dermal contact has been associated with hemolytic anemia, damage to the kidneys, cataracts, and, in infants, brain damage. There is limited evidence of fetal and maternal toxicity from exposure to naphthalene.

Chronic (long-term) exposure of workers and rodents to naphthalene has been reported to cause cataracts and damage to the retina. Lesions in the kidneys and thymus, signs of anemia, and reduced spleen weights have been observed in rats and mice chronically exposed via gavage. A National Toxicology Program (NTP) report states that lifetime inhalation exposure to naphthalene resulted in increases in tumors of the nose in rats. In another NTP study, lifetime inhalation exposure to naphthalene increased lung tumors in female mice. The relevance of the rodent findings to humans is unknown. Naphthalene has been listed by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B).

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:** Flumiclorac Pentyl Technical is practically non-toxic to avian species. The

following results were obtained from studies with Flumiclorac Pentyl Technical:

LD 50 quail: greater than 2250 mg/kg LC 50 duck: greater than 5620 ppm LC 50 mallard: greater than 5620 ppm Quail Reproduction NOEC: 500 ppm Duck Reproduction NOEC: 250 ppm.

**AQUATIC ORGANISM TOXICITY:** The toxicity of Flumiclorac Pentyl Technical to freshwater fish and invertebrates

ranges from slight to moderate. To saltwater/estuarine fish and invertebrates, it's

toxicity ranges from slight to moderate: 96-hour LC 50 bluegill sunfish: 17.4 mg/L 96-hour LC 50 rainbow trout: 1.1 mg/L

48-hour LC 50 Daphnia magna: greater than 38.0 mg/L 96-hour LC 50 sheepshead minnow: greater than 24 mg/L 96-hour EC 50 eastern oyster: greater than 1.8 mg/L

96-hour LC 50 mysid shrimp: 0.56 mg/L

OTHER NON-TARGET Flumiclorac Pentyl Technical is practically non-toxic to bees. The acute contact LD

**ORGANISM TOXICITY:** 50 is greater than 106 μg/bee.

Page 9 of 12

#### OTHER ENVIRONMENTAL INFORMATION:

This product is toxic to shrimp. Keep out of lakes, ponds or streams. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when 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:** Non-refillable container. Do not reuse or refill this container. 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 flow begins to drip. Fill the container 1/4 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 two more times. Then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill or by incineration.

**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

ICAO/IATA SHIPPING NAME: UN3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Flumiclorac

pentyl), 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. 151

**IMDG SHIPPING NAME:** UN3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Flumiclorac

pentyl), 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 2.10.2.7US 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: WARNING**

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- · Causes substantial but temporary eye injury
- Causes skin irritation
- Harmful if swallowed or absorbed through skin.
- · Do not get in eyes, on skin or on 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.

**Total hydrocarbons** 

TSCA Inventory List - Present

2-methylnaphthalene

TSCA Inventory List - Present

Naphthalene

TSCA Inventory List - Present
Clean Water Act - Hazardous Substances Present
Clean Water Act Section 307 Present

SARA 313 Chemicals 0.1% de minimis concentration

CERCLA Reportable Quantity (RQ): 100 lb (45.4 kg)

1-methylnaphthalene

TSCA Inventory List - Present

2-Ethyl hexanol

TŚCA Inventory List - \*

Product Reportable Quantity (RQ): 102 gallons (naphthalene RQ = 100 lb)

SARA (311, 312):

Immediate Health:YesChronic Health:YesFire:YesSudden 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.

2-methylnaphthalene

NJ Right To Know 4200

Naphthalene

California Proposition 65 carcinogen

### **RESOURCE®** Herbicide

California - Directors List of

Hazardous Substances

MA Right To Know Present
NJ Right To Know 1322 3758

PA Right To Know Environmental hazard

Present

RI Right To Know Listed

MN Hazardous Substance Present Carcinogen

1-methylnaphthalene

MA Right To Know Present
NJ Right To Know 4199
PA Right To Know Present

2-Ethyl hexanol

California - Directors List of Present

Hazardous Substances

MA Right To Know Present
NJ Right To Know 1063
PA Right To Know Present
MN Hazardous Substance Skin

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

### 16. OTHER INFORMATION

**REASON FOR ISSUE:** Corrected the transportation information.

SDS NO.: 0034
EPA REGISTRATION NUMBER: 59639-82
REVISION NUMBER: 2

**REVISION DATE:** 07/09/2015 **SUPERCEDES DATE:** 05/26/2015

**RESPONSIBLE PERSON(S):** Valent U.S.A. Corporation, 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. Corporation and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the acccuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Valent U.S.A. Corporation 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. Corporation to confirm that you have the most current product label and SDS.

Page 12 of 12

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 proudct 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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