SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

Safety data sheet number 0034
Revision Number 4

RESOURCE® Herbicide

Revision date 06-Feb-2026

1. Identification

Product identifier

Product Name RESOURCE® Herbicide
Registration Number(s) 59639-82

VC Number 1747, VC-2132

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

Restrictions on use It is a violation of Federal Law to use this product in a manner inconsistent with its FIFRA pesticide labeling

Other means of identification

Details of the supplier of the safety data sheet

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

Emergency telephone number

Emergency Telephone HEALTH EMERGENCY (24 hr):(800) 892-0099
TRANSPORTATION (24 hr.):
US Transportation: CHEMTREC (800) 424-9300
International Transportation: (703) 741-5970

2. Hazard(s) identification

Classification of the substance or mixture

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Aspiration hazard	Category 1
Hazardous to the aquatic environment - acute	Category 1
Hazardous to the aquatic environment - chronic	Category 1

Hazards not otherwise classified (HNOC)
Not applicable.

Label elements

Danger

Hazard statements
May be harmful if swallowed.
May be harmful in contact with skin.
Causes skin irritation.
Causes eye irritation.
May cause genetic defects.
May cause cancer.
Very toxic to aquatic life with long lasting effects.
May be fatal if swallowed and enters airways.

Precautionary Statements - Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye protection and face protection.
Wash face, hands and any exposed skin thoroughly after handling.
Avoid release to the environment.

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see supplemental first aid instructions on this label).
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of water and soap.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Do NOT induce vomiting.
Collect spillage.

Precautionary Statements - Storage
Store locked up.

Precautionary Statements - Disposal
Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Hazards classified under paragraph (d)(1)(ii) of 1910.1200
No information available.

Other information
No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Trade secret
Solvent naphtha, petroleum, heavy aromatic	64742-94-5	50 -60	*
Naphthalene, 2-methyl	91-57-6	18 -23	*
Flumiclorac-pentyl Technical Powder	87546-18-7	10.1	
Naphthalene, 1-methyl	90-12-0	6 -12	*
2-Ethylhexanol	104-76-7	1.5 - 4.0	*
Naphthalene	91-20-3	0.5 - 1.0	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.

Inhalation Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention if irritation develops and persists. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Erythema (skin redness). May cause redness and tearing of the eyes.

Effects of Exposure May cause cancer. Mutagenic effects.

Indication of any immediate medical attention and special treatment needed

Note to physicians Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical No information available.

Explosion data
Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store away from other materials.

8. Exposure controls/personal protection

Control Parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Naphthalene, 2-methyl 91-57-6	TWA: 0.05 ppm SL: 3 mg/100 cm2 Sk*	-	-
Naphthalene, 1-methyl 90-12-0	TWA: 0.05 ppm SL: 3 mg/100 cm2 Sk*	-	-
2-Ethylhexanol 104-76-7	TWA: 5 ppm Sk*	(vacated) TWA: 50 ppm (vacated) TWA: 270 mg/m^3 (vacated) Sk*	TWA: 50 ppm TWA: 270 mg/m^3
Naphthalene 91-20-3	TWA: 10 ppm Sk*	TWA: 10 ppm TWA: 50 mg/m^3 (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m^3 (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m^3	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m^3 STEL: 15 ppm STEL: 75 mg/m^3

Note See section 16 for terms and abbreviations.

Other information on limit values Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Biological occupational exposure limits

Chemical name	ACGIH
Naphthalene 91-20-3	- (1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis) - end of shift

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Use appropriate respiratory protection. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid
Color	Clear
Odor (includes odor threshold)	No information available

Property	**Values**	**Remarks • Method**
Melting point / freezing point	No data available	None known
Boiling point (or initial boiling point or boiling range)	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	> 93 Degrees C	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
SADT (°C)	No data available	None known
pH	6.1	1% Emulsion
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Solubility	No data available	None known
Water solubility	No data available	None known
Partition coefficient n-octanol/water (log value)	No data available	None known
Vapor pressure (includes evaporation rate)	1.0 x 10-7 mmHg @ 22.4° C	(Flumiclorac pentyl technical)
Evaporation rate	No data available	None known
Density and/or relative density	No data available	None known
Bulk density	No data available	
Liquid Density	8.51 lbs/gal @ 20° C	
Relative vapor density	No data available	None known
Particle characteristics		None known
Particle Size	No data available	
Particle Size Distribution	No data available	

Other information

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation. Causes eye irritation. May cause redness, itching, and pain.

Skin contact Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Erythema (skin redness). May cause redness and tearing of the eyes.

Acute toxicity May be harmful if swallowed. May be harmful in contact with skin.

Numerical measures of toxicity

Product Information

Oral LD50	3200 mg/kg
Dermal LD50	> 2001 mg/kg
Inhalation LC50	> 5.51 mg/L

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Solvent naphtha, petroleum, heavy aromatic CAS: 64742-94-5 ID: RM316433 50 -60 %	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 590 mg/m³ (Rat) 4 h
Naphthalene, 2-methyl CAS: 91-57-6 ID: RM316690 18 -23 %	= 1630 mg/kg (Rat)	-	-
Naphthalene, 1-methyl CAS: 90-12-0 ID: RM316691 6 -12 %	= 1840 mg/kg (Rat)	-	-
2-Ethylhexanol CAS: 104-76-7 ID: RM316782 1.5 - 4.0 %	= 3730 mg/kg (Rat)	= 1980 mg/kg (Rabbit)	> 227 ppm (Rat) 6 h
Naphthalene CAS: 91-20-3 ID: RM316435 0.5 - 1.0 %	= 1110 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	> 0.4 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes eye irritation.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
2-Ethylhexanol CAS: 104-76-7 ID: RM316782 1.5 - 4.0 %	A3	-	-	-
Naphthalene CAS: 91-20-3 ID: RM316435 0.5 - 1.0 %	A3	Group 2B	Reasonably Anticipated	X

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard May be fatal if swallowed and enters airways.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects. 2.68 % of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

Aquatic ecotoxicity Acute and Chronic Aquatic Toxicity Category 1 (Flumiclorac Pentyl-Daphnia magna).

Component Information

Chemical name	Fish	Crustacea	Algae/aquatic plants	Toxicity to microorganisms
Solvent naphtha, petroleum, heavy aromatic CAS: 64742-94-5 ID: RM316433 50 -60 %	LC50: =19mg/L (96h, Pimephales promelas) LC50: =2.34mg/L (96h, Oncorhynchus mykiss) LC50: =1740mg/L (96h, Lepomis macrochirus) LC50: =45mg/L (96h, Pimephales promelas) LC50: =41mg/L (96h, Pimephales promelas)	EC50: =0.95mg/L (48h, Daphnia magna)	-	-
Flumiclorac-pentyl Technical Powder	Rainbow trout LC50 = 1.1 mg/L	48 hr. Daphnia magna LC50= >38.0 mg/L	-	-

CAS: 87546-18-7 ID: RM316881 10.1 %		Mysid Shrimp 96 hr. LC50= 0.56 mg/L		
2-Ethylhexanol CAS: 104-76-7 ID: RM316782 1.5 - 4.0 %	LC50: 32 - 37mg/L (96h, Oncorhynchus mykiss) LC50: >7.5mg/L (96h, Oncorhynchus mykiss) LC50: 27 - 29.5mg/L (96h, Pimephales promelas) LC50: =29.7mg/L (96h, Pimephales promelas) LC50: 10.0 - 33.0mg/L (96h, Lepomis macrochirus)	EC50: =39mg/L (48h, Daphnia magna)	EC50: =11.5mg/L (72h, Desmodesmus subspicatus)	-
Naphthalene CAS: 91-20-3 ID: RM316435 0.5 - 1.0 %	LC50: 5.74 - 6.44mg/L (96h, Pimephales promelas) LC50: =1.6mg/L (96h, Oncorhynchus mykiss) LC50: 0.91 - 2.82mg/L (96h, Oncorhynchus mykiss) LC50: =1.99mg/L (96h, Pimephales promelas) LC50: =31.0265mg/L (96h, Lepomis macrochirus)	LC50: =2.16mg/L (48h, Daphnia magna) EC50: =1.96mg/L (48h, Daphnia magna) EC50: 1.09 - 3.4mg/L (48h, Daphnia magna)	-	-

Terrestrial ecotoxicity

Component Information

Chemical name	Earthworm	Avian	Honeybees
Solvent naphtha, petroleum, heavy aromatic CAS: 64742-94-5 ID: RM316433 50 -60 %	-	Dietary Toxicity: LC50 > 6500 ppm (Colinus virginianus, 5 Days) Acute Oral Toxicity: LD50 > 2250 mg/kg (Colinus virginianus)	-
Flumiclorac-pentyl Technical Powder CAS: 87546-18-7 ID: RM316881 10.1 %	-	LD50 quail: >2250 mg/kg	-

Persistence and degradability No information available.

Bioaccumulative potential

Chemical name	Partition coefficient	Bioconcentration factor (BCF)	Trophic magnification factor (TMF)
Solvent naphtha, petroleum, heavy aromatic CAS: 64742-94-5 ID: RM316433 50 -60 %	6.5	159	-

Naphthalene, 2-methyl CAS: 91-57-6 ID: RM316690 18 -23 %	3.86	-	-
2-Ethylhexanol CAS: 104-76-7 ID: RM316782 1.5 - 4.0 %	2.9	-	-
Naphthalene CAS: 91-20-3 ID: RM316435 0.5 - 1.0 %	3.4	168	-

Mobility in soil No information available.

Flumiclorac-pentyl Technical Powder (87546-18-7)

Method	Value	Results
Honeybee Acute Contact Testing	Acute contact LD 50 is greater than 106 µg/bee.	Practically non-toxic to bees.

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT Not Regulated for domestic ground transport by US DOT

Reportable quantity (kg) (Naphthalene: RQ (kg)= 45.40) Naphthalene: RQ (lb)= 100.00

Reportable quantity (kg) (calculated) Naphthalene: RQ (kg)= 7566.67

Reportable quantity (lbs) (calculated) Naphthalene: RQ (lb)= 16667.00

DOT Marine Pollutant M

Marine pollutant Flumiclorac-pentyl Technical Powder

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Flumiclorac-pentyl Technical Powder), 9, III

Marine pollutant name Flumiclorac-pentyl Technical Powder.

Technical Name Flumiclorac-pentyl Technical Powder

ICAO (air)

Notes **•Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) exempt fromDangerous Goods regulations – see IATA Special Provision A197.For US shipping, Emergency Response Guidebook No. 151**

UN number or ID number UN3082

UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing group	III
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.(Flumiclorac-pentyl Technical Powder), 9, III
Special Provisions	A97, A158, A197, A215

IATA

Notes	**•Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) exempt fromDangerous Goods regulations – see IATA Special Provision A197.For US shipping, Emergency Response Guidebook No. 151**
UN number or ID number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical Name	Flumiclorac-pentyl Technical Powder
Transport hazard class(es)	9
Packing group	III
Special Provisions	A97, A158, A197, A215
ERG Code	9L
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Flumiclorac-pentyl Technical Powder), 9, III

IMDG

Notes	**•Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) exempt fromDangerous Goods regulations – see IMDG 2.10.2.7•For US shipping, Emergency Response Guidebook No. 171EMS NO.: F-A, S-F**
UN number or ID number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical Name	Flumiclorac-pentyl Technical Powder
Transport hazard class(es)	9
Packing group	III
Marine pollutant indicator	M
Marine pollutant name	Flumiclorac-pentyl Technical Powder
Special Provisions	274, 335, 375, 969
EmS-No.	F-A, S-F
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Flumiclorac-pentyl Technical Powder), 9, III, Marine pollutant

15. Regulatory information

International Inventories

TSCA	Contact supplier for inventory compliance status.

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.
TCSI	Contact supplier for inventory compliance status.

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Naphthalene CAS: 91-20-3 ID: RM316435 0.5 - 1.0 %	0.1

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CAA (Clean Air Act)
This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Naphthalene CAS: 91-20-3 ID: RM316435 0.5 - 1.0 %	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Naphthalene, 2-methyl CAS: 91-57-6 ID: RM316690 15 -20 %	X	-	-

Naphthalene, 1-methyl CAS: 90-12-0 ID: RM316691 4 -8 %	X	X	X
2-Ethylhexanol CAS: 104-76-7 ID: RM316782 1.5 - 3.0 %	X	X	X
Propylene glycol CAS: 57-55-6 ID: RM316422 1.7 %	X	-	X
Naphthalene CAS: 91-20-3 ID: RM316435 0.5 - 1.0 %	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA **Health hazards** 2 **Flammability** 0 **Instability** 0 **Special hazards** -
HMIS **Health hazards** 3 * **Flammability** 0 **Physical hazards** 0 **Personal protection** -
Chronic Hazard Star Legend ** = Chronic Health Hazard*

Key or legend to abbreviations and acronyms used in the safety data sheet
List may include phrases which are not applicable to this product

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization

KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NTP	National Toxicology Program (United States)
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
OSHA	Occupational Safety and Health Administration of the US Department of Labor
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Key literature references and sources for data used to compile the SDS
U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
U.S. Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

Revision date	06-Feb-2026
Revision Note	No information available.

Disclaimer

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 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.

End of Safety Data Sheet