



Safety Data Sheet - GHS

1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

PRODUCT NAME: Outrider® Herbicide
EPA REGISTRATION NUMBER: 59639-223
PRODUCT DESCRIPTION: Selective Herbicide

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

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 Certain sections of this SDS are superseded by federal law under EPA FIFRA for a registered pesticide.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 - This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Label elements

EMERGENCY OVERVIEW

No Signal Word is required for this material.

Precautionary statements

Prevention
None

Response

Eyes None.
Skin None.
Inhalation None.
Ingestion None.

FIRE None.
Spill None.

Storage
None

Disposal
None

Hazards not otherwise classified (HNOC)

Other Information

- Harmful 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 No.	Weight-%	TRADE SECRET
Sulfosulfuron	141776-32-1	75	
Others	(Various CAS#s)	25	

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

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 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 °C Not applicable
 Flash point °F
 AUTOIGNITION: Does not self-ignite
 EXTINGUISHING MEDIA: Water fog, carbon dioxide, foam, dry chemical

NFPA RATING:
 Health: 1
 Flammability: 1
 Reactivity: 0
 Special: None

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

FIRE FIGHTING INSTRUCTIONS: Minimize use of water to prevent environmental contamination. Use self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides and Sulfur oxides; oxides of nitrogen, ammonia;

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

CONTAINMENT: Contain spilled material if possible.
 Reduce airborne dust. Avoid runoff into storm sewers or other bodies of water.

CLEANUP: SMALL QUANTITIES:
 Sweep, scoop or vacuum to remove.
 Wash spill area with detergent and water.
LARGE QUANTITIES:
 Dig up heavily contaminated soil.
 Collect in containers for disposal.
 Flush residues with small quantities of water.
 Minimise use of water to prevent environmental contamination.

7. HANDLING AND STORAGE

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

HANDLING:
 Keep out of reach of children. Do not swallow. Avoid breathing dust or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use with adequate ventilation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated

clothing and shoes immediately. Then wash thoroughly and put on clean clothing.

STORAGE:

- Conditions for safe storage of sulfosulfuron
- Maximum storage temperature: < 120 °F
- Keep out of reach of children.
- Keep away from food, drink, animal feed, seed, fertilizers and veterinary supplies.
- Keep only in the original container.
- Keep container tightly closed in a cool, dry, well-ventilated place.
- Keep container off wet floors. Do not store under moist conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

EYES & FACE: If there is significant potential for contact: Wear dust goggles.

RESPIRATORY PROTECTION: No special requirement when used as recommended.

SKIN & HAND PROTECTION: Consistent with general hygienic practice for any material, skin contact should be minimized. Applicators and other handlers must wear: long sleeved shirt, long pants and shoes with socks. Keep and wash personal protective equipment separately from other laundry. If no such instructions for washables, use detergent and hot water.

EXPOSURE LIMITS

Chemical name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Sulfosulfuron	None	None	None
Others	None	None	None

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Free-flowing granules	Odor	Odorless
Appearance	Granules	Odor threshold	No information available
Color	Whitish		

<u>PROPERTIES</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5.5 @ 10 g/L	
Melting point/freezing point	No data available	
Boiling point/boiling range	Not applicable	
Flash point	Not applicable	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limits	No information available	
Lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	No information available	
Water solubility	Dispersible in water	
Solubility in other solvents	No information available	
Partition coefficient	log Pow: <1 (sulfosulfuron)	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity	No information available	
Explosive properties	No information available	

Oxidizing properties No information available
 Liquid Density No information available
 Bulk density 33.8 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
 Thermal decomposition can lead to release of irritating and toxic gases and vapors

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

The following acute toxicological information is based on data for a similar formulation.

Oral Toxicity LD ₅₀ (rats)	> 5000 mg/kg	EPA Tox Category	IV
Dermal Toxicity LD ₅₀ (rats)	> 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC ₅₀ (rats)	> 2.6 mg/L (4 h) (4 h)	EPA Tox Category	IV
Eye Irritation (rabbits)	Slightly irritating	EPA Tox Category	III
Skin Irritation (rabbits)	Non-irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Non-sensitizer	EPA Tox Category	Not applicable

CARCINOGEN CLASSIFICATION

Chemical name	IARC Group 1 or 2	OSHA - Select Carcinogens	NTP Carcinogen List
Sulfosulfuron	Not listed	Not listed	Not listed
Others	Not listed	Not listed	Not listed

CHRONIC/CARCINOGENICITY: Urinary bladder tumours in rats and mice. Mode(s) of action not relevant to humans.

DEVELOPMENTAL TOXICITY: No developmental effects in rats or rabbits.

REPRODUCTION: No reproductive effects in rats.

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

Data obtained on similar products and on components are summarized below.

AVIAN TOXICITY:

Sulfosulfuron:
 Bobwhite quail (*Colinus virginianus*):
 Dietary toxicity, 5 days, LC50: > 5,620 mg/kg diet
 Practically non-toxic.
 Mallard duck (*Anas platyrhynchos*):
 Acute oral toxicity, single dose, LD50: > 2,250 mg/kg body weight
 Practically non-toxic.

Mallard duck (*Anas platyrhynchos*):
 Dietary toxicity, 5 days, LC50: > 5,620 mg/kg diet
 Practically non-toxic.
 Bobwhite quail (*Colinus virginianus*):
 Acute oral toxicity, single dose, LD50: > 2,250 mg/kg body weight
 Practically non-toxic.
 Mallard duck (*Anas platyrhynchos*):
 Acute oral toxicity, single dose, LD50: > 2,250 mg/kg body weight
 Practically non-toxic.

AQUATIC ORGANISM TOXICITY: Sulfosulfuron Similar Formulation:

AQUATIC TOXICITY, FISH
 Rainbow trout (*Oncorhynchus mykiss*):
 Acute toxicity (limit test), 96 hours, static, LC50: > 97 mg/L
 No more than slightly toxic.

Sulfosulfuron Similar Formulation
AQUATIC TOXICITY, INVERTEBRATES
 Water flea (*Daphnia magna*):
 Acute toxicity (limit test), 48 hours, static, EC50: > 144 mg/L
 Practically non-toxic.

AQUATIC TOXICITY, ALGAE/AQUATIC PLANTS
 Green algae (*Pseudokirchneriella subcapitata*):
 Acute toxicity, 72 hours, static, EC50: 71.4 µg/L
 Very highly toxic.
 Duckweed (*Lemna gibba*):
 Acute toxicity, 7 day, semi-static, ErC50 (frond number): 1.20 µg/L
 Very highly toxic.
 Duckweed (*Lemna gibba*):
 Acute toxicity, 7 day, semi-static, NOEC: 0.27 µg/L
 Very highly toxic.

OTHER ENVIRONMENTAL INFORMATION:

Soil organism toxicity, invertebrates
 Earthworm (*Eisenia foetida*): Acute toxicity (limit test), 14 days, LC50: > 848 mg/kg dry soil

Bioaccumulation
 No significant bioaccumulation is expected.

Dissipation
 Soil, field: Half life: 11 - 47 days
 Water, aerobic: Half life: 16 - 20 days

13. DISPOSAL CONSIDERATIONS

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

PRODUCT DISPOSAL: Keep out of drains, sewers, ditches and water ways. To avoid wastes, use all material in this container, including rinsate, by application in accordance with label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program. Such programs are often run by state or local governments or by industry. All disposal must be in accordance with applicable Federal, State and local procedures.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank. 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 for two more times. Then offer for recycling if available or puncture and dispose of in an sanitary landfill or by incineration, or if allowed by State or 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

DOT (ground) SHIPPING NAME: Not regulated for domestic ground transport by US DOT or Canada TDG.

REMARKS: None

EMERGENCY RESPONSE

GUIDEBOOK NO.: n/a

ICAO/IATA SHIPPING NAME: UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (Sulfosulfuron), 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.

IMDG SHIPPING NAME: UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (Sulfosulfuron), 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

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*
- *Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.*

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: No
 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: Deleted synonym.
SDS NO.: 0513
EPA REGISTRATION NUMBER: 59639-223
REVISION NUMBER: 4
REVISION DATE: 09/10/2020
SUPERCEDES DATE: 09/03/2020
RESPONSIBLE PERSON(S): Valent U.S.A. LLC, 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. 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.

2020 Valent U.S.A. LLC

