

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 01-May-2024

Revision Number 1.01

1. Identification	
Product identifier	
Product Name	Sulfentrazone
Other means of identification	
Product Code(s)	TRC-S699290-10G
Synonyms	None
Recommended use of the chemical	and restrictions on use
Recommended use	This product is for research and development only
Restrictions on use	Not to be used for human or animal consumption
Details of the supplier of the safety	data sheet
Supplier Address	
VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA	
Tel :+1 (603) 622-7660 Fax : +1 (603) 622-5180 Email : Igcusa@Igcgroup.com	
Web : Igcstandards.com	
E-mail	sds-request@lgcgroup.com
Emergency telephone number	
Emergency Telephone For Hazardous Materials or Dangerou Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970	
2. Hazard(s) identification	



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

Classification

Classified according to OSHA.

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Chronic aquatic toxicity	Category 3

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Hazard statements Classified according to OSHA. Harmful if inhaled Causes skin irritation Causes serious eye irritation Suspected of damaging fertility or the unborn child May cause damage to organs through prolonged or repeated exposure Harmful to aquatic life with long lasting effects



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/clothing and eye/face protection Use only outdoors or in a well-ventilated area Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention 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



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

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 INHALED: Remove person to fresh air and keep comfortable for breathing

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

May be harmful if swallowed. May be harmful in contact with skin. Harmful to aquatic life.

3. Composition/information on ingredients

Substance

Formula

C ₁₁H₁₀C l₂F ₂N ₄O ₃S

Chemical name	CAS No.	Weight-%	Trade secret
Sulfentrazone	122836-35-5	100	*

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If breathing has stopped, give artificial respiration. Get medical attention immediately. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
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	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

contamination. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed		
Symptoms	May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.	
Indication of any immediate medi	cal attention and special treatment needed	

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
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 impac	t 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. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust.	
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	Pick up and transfer to properly labeled containers.	



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

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. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid generation of dust.

Conditions for safe storage, including any incompatibilities

Storage ConditionsPlease refer to the manufacturer's certificate for specific storage and transport temperature
conditions. Store only in the original receptacle unless other advice is given on the CoA.
Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure LimitsThis product, as supplied, does not contain any hazardous materials with occupational
exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

Appropriate engineering controls

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering con	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measur	es, such as personal protective equipment
Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields.
Hand protection	The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear suitable gloves. Impervious gloves.



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

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.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Avoid breathing dust/fume/gas/mist/vapors/spray.

9. Physical and chemical properties

Information on basic physical and chemical properties

information on basic physical and t		
Physical state	Solid	
Appearance	Solid	
Color	beige; to; brown	
Odor	Slight Sulfurous	
Odor threshold	No information available	
Property_	Values	Remarks • Method
pH	No data available	None known
Melting point / freezing point	119 - 122 °C / 246.2 - 251.6	°FNone known
Initial boiling point and boiling rang	eNo data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	1.30 X 10-04 mPa	@ 20°C
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Soluble in water	@ 20 °C
Solubility(ies)	Chloroform (Slightly), Methanol	
	(Slightly)	
Partition coefficient	0.99	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	387.19
VOC content	No information available
Liquid Density	No information available
Bulk density	0.53 g/ml at 20°C
-	-

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	Excessive heat.		
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. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).			
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.			
Skin contact	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. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.			
Symptoms related to the physical, chemical and toxicological characteristics				
Symptoms	Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.			
Acute toxicity				
Numerical measures of toxicity				



This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50			
Sulfentrazone	> 2855 mg/kg (Rat)	-	> 4.14 mg/L (Rat)4 h			
122836-35-5						
Delayed and immediate effects	Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Skin corrosion/irritation	Classification based on da irritation.	Classification based on data available for ingredients. Causes skin irritation. May cause skin irritation.				
Serious eye damage/eye irritati	on Classification based on da	Classification based on data available for ingredients. Causes serious eye irritation.				
Respiratory or skin sensitizatio	n No information available.	No information available.				
Germ cell mutagenicity	No information available.	No information available.				
Carcinogenicity	No information available.	No information available.				
Reproductive toxicity		Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.				
STOT - single exposure	No information available.	No information available.				
STOT - repeated exposure	May cause damage to org	May cause damage to organs through prolonged or repeated exposure.				
Aspiration hazard	No information available.					
Other adverse effects	No information available.					
Interactive effects	No information available.					

12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects.



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sulfentrazone 122836-35-5	32.8 (algae, 72h)	93.8 mg/L (Fish, 96 h)	-	> 60.4 (Daphnia magna, 48 h)

Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Sulfentrazone 122836-35-5	0.99

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.

14. Transport information

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
	Not regulated
IMDG	Not regulated

15. Regulatory information



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

International Inventories

TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
Sulfentrazone	122836-35-5	-	-

*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.

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 and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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.



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

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).

<u>CERCLA</u>

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 does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA HMIS Chronic Hazard Star	Health hazards 2 Health hazards 2 * Legend *= Chronic	Flammability Flammability c Health Hazard		nstability 0 Physical hazai	rds 0	Special hazards - Personal protection	х
	abbreviations and acronyms		ty data sheet	<u>:t</u>			
Legend Section	8: Exposure controls/person	nal protection					
TWA	TWA (time-weighted average	e) S	TEL	STEL (S	Short Term	Exposure Limit)	
Ceiling	Maximum limit value	S	k*	Skin des	signation		
Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (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							



This safety data sheet was created pursuant to the requirements of:

OSHA HCS2012

TRC-S699290-10G - Sulfentrazone

Revision date 01-May-2024

Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification 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) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note Disclaimer 01-May-2024 No information available.

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

End of Safety Data Sheet