

SAFETY DATA SHEET

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

Safety data sheet number SDS-VBS-1100 Revision Number 1

Revision date 13-Dec-2024

SuperSede Soybean

1. Identification

Product identifier

Product Name SuperSede Soybean

Product Code(s) 1160

Recommended use of the chemical and restrictions on use

Recommended use Fertilizer Seed Treatment

Restrictions on use Follow label instructions.

UN number or ID number UN3082

Other means of identification

Details of the supplier of the safety data sheet

Manufacturer Address

Valent BioSciences LLC 1910 Innovation Way, Suite 100 Libertyville, Illinois 60048

Emergency telephone number

Emergency Telephone Valent BioSciences LLC, Product Information: (800)323-9597

Health Emergency (24 hr): 1-877-315-9819

US Transportation (24 hr): CHEMTREC: 800-424-9300 International Transportation (24 hr): 703-741-5970

2. Hazard(s) identification

Classification

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements

Hazard statements

Other information

Causes mild skin irritation.

3. Composition/information on ingredients

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No.	Weight-%	Trade secret
Zinc	Trade secret	0.5	

4. First-aid measures

Description of first aid measures

Inhalation Remove to fresh air.

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Eye contact

Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms Prolonged contact may cause redness and irritation.

No information available. **Effects of Exposure**

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

5. Fire-fighting measures

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

surrounding environment.

CAUTION: Use of water spray when fighting fire may be inefficient. Large Fire

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.

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.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

Control parameters

Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Biological occupational exposure limits

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 protectionWear suitable protective clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance No information available Color No information available

Odor Earth-like odor

Odor threshold No information available

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

None known Hq 3.0 pH (as aqueous solution) None known Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known No data available Flash point 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 No data available None known Relative vapor density No data available None known No data available Relative density None known No data available Water solubility None known Solubility(ies) No data available None known Partition coefficient No data available None known None known **Autoignition temperature** No data available None known **Decomposition temperature**

Kinematic viscosity

No data available

None known

No data available

None known

None known

Other information

Explosive properties

Oxidizing properties

No information available

Liquid Density 1.1 - 1.3 g/ml

Bulk density No information available

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoidNone known based on information supplied.

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Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available. Causes mild skin irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Prolonged contact may cause redness and irritation.

Acute toxicity .

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

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 mild skin irritation.

Serious eye damage/eye irritation No information available.

Carcinogenicity No information available.

Target organ effects Kidney, Respiratory system, Eyes, Blood.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
Zinc	ECEO: _0.056mg/L (72h	LC50: =0.162mg/L (96h,	microorganisms	EC50: -0.75mg/L (49h
ZIIIC	Pseudokirchneriella	Oncorhynchus mykiss)	-	EC50: =0.75mg/L (48h, Daphnia magna)
	subcapitata)	LC50: 0.03 - 0.05mg/L		EC50: 0.538 -
	3dbcapitata)	(96h, Oncorhynchus		0.908mg/L (48h,
		mykiss)		Daphnia magna)
		LC50: 0.34 - 0.93mg/L		Baprilla magna)
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 0.218 - 0.42mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: =0.06mg/L (96h,		
		Pimephales promelas)		
		LC50: 0.23 - 0.48mg/Ĺ		
		(96h, Pimephales		
		promelas)		
		LC50: 0.168 - 0.25mg/L		
		(96h, Pimephales		
		promelas)		
		LC50: =0.15mg/L (96h,		
		Cyprinus carpio)		
		LC50: 16.85 -		
		27.18mg/L (96h,		
		Cyprinus carpio)		
		LC50: 3 - 4.6mg/L (96h,		
		Lepomis macrochirus)		
		LC50: 3.55 - 6.32mg/L		
		(96h, Lepomis		
		macrochirus)		
		LC50: =0.63mg/L (96h,		
		Poecilia reticulata) LC50: 49.23 -		
		64.16mg/L (96h, Poecilia reticulata)		
		LC50: 0.48 - 1.72mg/L		
	I .	(96h, Poecilia reticulata)		

Persistence and degradability No information available.

Bioaccumulation

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

UN number or ID number UN3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Zinc Sulfate, Cobalt (II) nitrate,

hexahydrate)

Transport hazard class(es) 9
Subsidiary hazard class 9
Packing group III

Technical Name Zinc Sulfate, Cobalt (II) nitrate, hexahydrate **Special Provisions** 8, 146, 173, 335, 441, IB3, T4, TP1, TP29

DOT Marine Pollutant

Marine pollutant Zinc Sulfate, Cobalt (II) nitrate, hexahydrate

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc Sulfate, Cobalt (II)

nitrate, hexahydrate), 9, III, Marine pollutant

ICAO (air)

UN number or ID number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es) 9
Subsidiary hazard class 9
Packing group III

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc Sulfate, Cobalt (II)

nitrate, hexahydrate), 9, III

Special Provisions A97, A158, A197, A215

IATA

UN number or ID number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Zinc Sulfate)

Transport hazard class(es) 9
Subsidiary hazard class 9
Packing group III

Technical Name Zinc Sulfate

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc Sulfate), 9, III

Special Provisions A97, A158, A197, A215

ERG Code 91

IMDG

UN number or ID number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es) 9
Subsidiary hazard class 9
Packing group III
EmS-No. F-A, S-F
Special Provisions 274, 335, 969

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc Sulfate, Cobalt (II)

nitrate, hexahydrate), 9, III, Marine pollutant

15. Regulatory information

International Inventories

TSCA Contact supplier for inventory compliance status.

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

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

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.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority	CWA - Hazardous
	Quantities		Pollutants	Substances
Zinc	1000 lb	X	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Zinc	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Zinc	X	X	X

Sodium Hydroxide 1310-73-2	Х	X	X
Cobalt (II) nitrate, hexahydrate 10026-22-9	Χ	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPAHealth hazards0Flammability0Instability0Special hazards-HMISHealth hazards1*Flammability0Physical hazards0Personal protectionX

Chronic Hazard Star Legend *= Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk* Skin designation

+ Sensitizers

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)

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)

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)

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

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Revision NoteNo information available.

<u>Disclaimer</u>

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This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health

and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.

End of Safety Data Sheet