

**POWERGIZER 45 8-32-5** 

SUPERSEDES: 09/10/2013

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 06/05/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** 

Product Name POWERGIZER 45 8-32-5

Other means of identification

 Product Code
 FRT-00104

 Document
 1000165951

 Synonyms
 None

Recommended use of the chemical and restrictions on use
Recommended Use Foliar Nutrient. Soil Nutrient.
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address LOVELAND PRODUCTS, INC. P.O. Box 1286 Greeley, CO 80632-1286

Emergency telephone number

Company Phone Number 1-888-LPI-CUST (574-2878) Emergency Telephone 1-888-LPI-CUST (574-2878) Chemtrec 1-800-424-9300

Medical Emergencies: 1-866-944-8565

US regulations require reporting spills of this material that could reach any surface waters. The toll-free phone number for the US Coast Guard National Response Center is

1-800-424-8802

# 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label elements

The product contains no substances which at their given concentration, are considered to be hazardous to health

### Hazards not otherwise classified (HNOC)

Not applicable



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3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### Mixture

Chemical Name	CAS No	Weight-%	GHS Classification	Trade Secret
Ferrous Sulfate	7720-78-7	1 - 5	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	*
Zinc Sulfate	7733-02-0	0.1 - 1	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

OSHA Hazard Communication 29 CFR 1910.1200

# 4. FIRST AID MEASURES

Description of first aid measures

**General advice** (Get medical attention immediately if symptoms occur.).

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

Consult a physician. Call a poison control center or doctor for treatment advice.

**Skin contact**Take off contaminated clothing. Call a poison control center or doctor for treatment advice.

**Inhalation** Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed. Have the product container or label with

you when calling a poison control center or doctor or going for treatment. You may also call

1-866-944-8565 for emergency medical treatment information.

**Note to physicians**Treat symptomatically.

Antidotes No data available



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# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO2, dry chemical, or foam

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional ecological information.

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 containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials**None known based on information supplied.



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# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

**Appropriate engineering controls** 

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection Dependent on job function. If vapors or dusts exceed acceptable levels, wear a

MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air

respirator if exposure concentrations are unknown.

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



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# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution
Color Light brown
Odor Slight

Odor threshold No data available

Property Values (Remarks - Method)

pH No data available
Melting point / freezing point No data available
Boiling point No data available
Flash point No data available
Evaporation rate No data available
Flammability (solid, gas) No data available

Flammability Limit in Air

**Upper flammability limit:** No data available Lower flammability limit: No data available Vapor pressure No data available Vapor density No data available **Specific Gravity** 1.433 g/ml Water solubility No data available Solubility in other solvents No data available Partition coefficient No data available **Autoignition temperature** No data available No data available **Decomposition temperature** Kinematic viscosity No data available No data available Dynamic viscosity No data available **Explosive properties** No data available **Oxidizing properties** 

#### Other Information

VOC Content (%) No data available Density 11.96lbs/gal

**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.



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## 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** 

None known based on information supplied.

#### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity of the formulated product:

Chemical Name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC50
Ferrous Sulfate	= 319 mg/kg (Rat)		
Zinc Sulfate	= 1710 mg/kg (Rat)		

Chemical Name	Skin corrosion/irritation	Eye damage/irritation	Respiratory sensitization	Skin sensitization
Ferrous Sulfate	Category 2	Category 2		
7720-78-7				
Zinc Sulfate		Category 1		
7733-02-0				

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

Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
No information available.
No information available.
No information available.
No information available.
May cause adverse liver effects.

**Target Organ Effects** Eye damage/irritation, Gastrointestinal tract (GI), liver, Respiratory system, Skin.

Aspiration hazard No information available.

Information on likely routes of exposure

Product Information No data available

**Inhalation** No data available.

Eye contact No data available.

**Skin contact** No data available.

**Ingestion** No data available.



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# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ferrous Sulfate	-	LC50 0.56 mg/L 96 h Cyprinus	EC50 6.15 - 9.26 mg/L 48 h
7720-78-7		carpio LC50 925 mg/L 96 h Poecilia	Daphnia magna EC50 152 mg/L 48
		reticulata	h Daphnia magna
Zinc Sulfate	EC50 0.056 mg/L 72 h	LC50 0.162 mg/L 96 h	EC50 0.75 mg/L 48 h Daphnia
7733-02-0	Pseudokirchneriella subcapitata	Oncorhynchus mykiss LC50 0.03 -	magna EC50 0.538 - 0.908 mg/L 48
	EC50 64.8 mg/L 72 h Chlorella	0.05 mg/L 96 h Oncorhynchus	h Daphnia magna
	vulgaris EC50 2.4 mg/L 96 h	mykiss LC50 0.34 - 0.93 mg/L 96 h	
	Chlorella vulgaris	Oncorhynchus mykiss LC50 0.218 -	
		0.42 mg/L 96 h Pimephales	
		promelas LC50 0.06 mg/L 96 h	
		Pimephales promelas LC50 0.23 -	
		0.48 mg/L 96 h Pimephales	
		promelas LC50 49.23 - 64.16 mg/L	
		96 h Poecilia reticulata LC50 0.48 -	
		1.72 mg/L 96 h Poecilia reticulata	
		LC50 0.168 - 0.25 mg/L 96 h	
		Pimephales promelas LC50 0.15	
		mg/L 96 h Cyprinus carpio LC50	
		16.85 - 27.18 mg/L 96 h Cyprinus	
		carpio LC50 3 - 4.6 mg/L 96 h	
		Lepomis macrochirus LC50 3.55 -	
		6.32 mg/L 96 h Lepomis	
		macrochirus LC50 0.63 mg/L 96 h	
		Poecilia reticulata	

# Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or

equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/.

Do not contaminate water, food or feed by storage or disposal.

**Contaminated packaging** Do not reuse container.



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## 14. TRANSPORT INFORMATION

DOT

UN/ID no Not regulated Proper shipping name Not regulated

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED

FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)

# 15. REGULATORY INFORMATION

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical

Properties -

Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Severe

# **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

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **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 Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ferrous Sulfate 7720-78-7	1000 lb	-	-	X
Zinc Sulfate 7733-02-0	1000 lb	Х	-	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	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ferrous Sulfate	1000 lb	-	RQ 1000 lb final RQ
7720-78-7			RQ 454 kg final RQ
Zinc Sulfate	1000 lb	-	RQ 1000 lb final RQ
7733-02-0			RQ 454 kg final RQ

## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. EPA Label Information



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16. OTHER INFORMATION

**Prepared By** Registrations and Regulatory Affairs

Reviewed By Safety, Health and Environment

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 06/05/2018

 Revision Date
 06/05/2018

**Revision Note** 

16 SDS sections updated

POWERGIZER 45 8-32-5 is a registered trademark of Cheetah Chemical. Inc.

#### **Disclaimer**

This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

**End of Safety Data Sheet**