# SAFETY DATA SHEET

## 1. Identification

Product identifier Gravity L 12-0-0

Other means of identification

Product code 32048

Recommended use Turf & Ornamental - Nitrogen Fertilizer with Micro's - Refer to product label for more details

Recommended restrictions Refer to product label.

Manufacturer/Importer/Supplier/Distributor information

Company name Heritage Professional Products Group

Address 7440 State Highway

McKinney, TX 75070

**United States** 

**Telephone** Heritage Customer Service 1-855-565-1507

Website heritageppg.com E-mail Not available.

Emergency phone number CHEMTREC 1-800-424-9300

Rocky Mountain Poison 1-866-767-5042

and Drug

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Acute toxicity, dermal Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity, repeated Category 2

exposure

**Environmental hazards** Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye

irritation. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic

life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Avoid release to the environment. Wear eye protection/face protection. Wear

protective gloves/protective clothing.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with

plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Material name: Gravity L 12-0-0 32048 Version #: 02 Revision date: 07-31-2023 Issue date: 01-24-2023 Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Urea		57-13-6	20 - < 30*
Manganese Sulfate, monohydrate		10034-96-5	3 - < 5*
Other components below reports	able levels		70 - < 80

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention

if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated

clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important

symptoms/effects, acute and

delayed

Ingestion

Indication of immediate medical attention and special

treatment needed **General information**  Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Move containers from fire area if you can do so without risk.

Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards

Specific methods

No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Material name: Gravity L 12-0-0

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

## Precautions for safe handling

Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

## Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Store in secured area away from children, feed, and other food products. Store in original container. Store in a well-ventilated area. Storage temperature: 40 F to 100 F.

## 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits

Components	s for Air Contaminants (29 CFR 1910.1000) Type	Value	
Manganese Sulfate, monohydrate (CAS 10034-96-5)	Ceiling	5 mg/m3	
US. ACGIH Threshold Lim			_
Components	Туре	Value	Form
Manganese Sulfate, monohydrate (CAS 10034-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
		0.02 mg/m3	Respirable fraction
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
Manganese Sulfate, monohydrate (CAS 10034-96-5)	STEL	3 mg/m3	Fume.
·	TWA	1 mg/m3	Fume.
US. Workplace Environme	ental Exposure Level (WEEL) Guides		
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.
ogical limit values	No biological exposure limits noted for the i	ngredient(s).	
repriete engineering	Cood general ventilation should be used \/		

# Bio

## Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Material name: Gravity L 12-0-0

# 9. Physical and chemical properties

Appearance Liquid.
Physical state Liquid.
Form Liquid.

ColorGreen. to. Brown.Odorfaint sweet odorOdor thresholdNot available.pHNot available.

Melting point/freezing point 149 °F (65 °C) estimated Initial boiling point and boiling 572 °F (300 °C) estimated

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 hPa estimated

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) 100 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 1.32 g/cm3 estimated

**Explosive properties** Not explosive.

Flammability  $> 200 \, ^{\circ}\text{F} \, (> 93.33 \, ^{\circ}\text{C})$ 

Oxidizing properties

Percent volatile

pH in aqueous solution

Pounds per gallon

Specific gravity

VOC

Not oxidizing.

40.25 % estimated

4 - 6 (1% Solution)

11.06 - 11.1 lb/gal

1.32 estimated

VOC

13.25 % estimated

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

**Conditions to avoid**Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition**No hazardous decomposition products are known.

products

Material name: Gravity L 12-0-0 SDS US

# 11. Toxicological information

Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

Harmful in contact with skin. Causes skin irritation. Skin contact

Causes serious eye irritation. Eye contact

Harmful if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Harmful in contact with skin. Harmful if swallowed.

**Product Species Test Results** 

Gravity L 12-0-0

**Acute** 

Oral

LD50 Rat 21660 mg/kg

Components **Species Test Results** 

Manganese Sulfate, monohydrate (CAS 10034-96-5)

**Acute** 

Oral

LD50 Rat 2150 mg/kg

Urea (CAS 57-13-6)

**Acute** 

Oral

LD50 Rat 8471 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eve damage/eve

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Due to partial or complete lack of data the classification is not possible. Skin sensitization Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -May cause damage to organs through prolonged or repeated exposure.

repeated exposure

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

**Chronic effects** Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Material name: Gravity L 12-0-0 SDS US

Product		Species	Test Results
Gravity L 12-0-0			
Aquatic			
Acute			
Crustacea	EC50	Daphnia	25.102 mg/l, 48 hours estimated
Fish	LC50	Fish	1.9592 mg/l, 96 hours estimated
Components		Species	Test Results
Manganese Sulfate, mo	nohydrate (CAS	10034-96-5)	
Aquatic			
Crustacea	EC50	Water flea (Daphnia obtusa)	30.8 - 44.1 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	36.9 mg/l, 96 hours
			29.7 - 52.7 mg/l, 192 hours
Urea (CAS 57-13-6)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	3910 mg/l, 48 hours
Fish	LC50	Carp (Leuciscus idus melanotus)	> 10000 mg/l, 48 hours
		Guppy (Poecilia reticulata)	16200 - 18300 mg/l, 96 hours
		Harlequinfish, red rasbora (Rasbora heteromorpha)	12000 mg/l, 96 hours
		Mozambique tilapia (Tilapia mossambica)	590 - 730 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

-2.11 Urea

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

Dispose in accordance with all applicable regulations.

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN3082 **UN** number

**UN** proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Ferrous Sulfate, Monhydrate; Manganese

Sulfate, monohydrate)

Transport hazard class(es)

Class 9 Subsidiary risk 9 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

8, 146, 335, IB3, T4, TP1, TP29 **Special provisions** 

Material name: Gravity L 12-0-0 SDS US 6/9 Packaging exceptions 155 Packaging non bulk 203 Packaging bulk 241

IMDG Regulated Marine Pollutant. Not DOT regulated in domestic (USA ground) transportation in package sizes less than 4082 lbs (368 gallons); 1,851kg (1,393 liters). The DOT transportation information above is for shipments with package sizes greater than 119 gallons.

#### IATA

**UN** number UN3082

**UN** proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Ferrous Sulfate, Monhydrate, Manganese

Sulfate, monohydrate)

Transport hazard class(es)

Class 9 Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 9L

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

**UN** number UN3082

**UN proper shipping name** 

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ferrous Sulfate,

Monhydrate, Manganese Sulfate, monohydrate), MARINE POLLUTANT

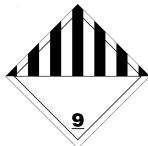
Transport hazard class(es)

9 Class Subsidiary risk Ш Packing group **Environmental hazards** 

Marine pollutant Yes F-A, S-F **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

## DOT; IATA; IMDG



#### Marine pollutant



#### **General information**

IMDG Regulated Marine Pollutant, Not DOT regulated in domestic (USA ground) transportation in package sizes less than 4082 lbs (368 gallons); 1,851kg (1,393 liters). The DOT transportation information above is for shipments with package sizes greater than 119 gallons.

Material name: Gravity L 12-0-0 SDS US

## 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

#### **Toxic Substances Control Act (TSCA)**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

## **CERCLA Hazardous Substance List (40 CFR 302.4)**

Manganese Sulfate, monohydrate (CAS 10034-96-5) Listed.

# SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard categories

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

## SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Manganese Sulfate, monohydrate	10034-96-5	3 - < 5	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese Sulfate, monohydrate (CAS 10034-96-5)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US** state regulations

## **California Proposition 65**

WARNING: This product can expose you to chemicals including arsenic, cadmium, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

32048 Version #: 02 Revision date: 07-31-2023 Issue date: 01-24-2023

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# 16. Other information, including date of preparation or last revision

 Issue date
 01-24-2023

 Revision date
 07-31-2023

Version # 02

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of Manufacturer's

knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its owns tests of

the Product to determine suitability of the Product for user's particular use.

**Revision information**This document has undergone significant changes and should be reviewed in its entirety.

Material name: Gravity L 12-0-0 SDS US