

SAFETY DATA SHEET ORP Buffer 50%

Page: 1 of 5 Printed: 07/17/2019 Revision: 07/10/2019

Supersedes Revision: 06/24/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: MORGAN-150-BULK
Product Name: ORP Buffer 50%

Company Name:Morgan-Gallacher, Inc.Phone Number:8707 Millergrove Drive+1 (562)695-1232

Santa Fe Springs, CA 90670

Emergency Contact: CHEMTREC +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2A



GHS Signal Word: Warning

GHS Hazard Phrases: Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

GHS Precautionary Phrases: Read label before use.

Keep out of reach of children.

Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

Wash hands thoroughly after handling. Wear protective gloves/eye protection.

GHS Response Phrases: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing for 15 minutes.

Get immediate medical advice/attention.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical

advice/attention.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs, get medical

advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

If experiencing respiratory symptoms: Get immediate medical advice/attention.

GHS Storage and Disposal

Phrases:

Dispose of contents/container in accordance to local, state and federal regulations.

Inhalation: Harmful if inhaled. May cause respiratory tract irritation.

Skin Contact: May cause a burning sensation of the skin. May be harmful if absorbed through the skin.

Eye Contact: May cause severe eye irritation. May cause tearing.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and

diarrhea.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # Hazardous Components (Chemical Name) Concentration

77-92-9 Citric acid 50.0 %

4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

In Case of Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid immediately.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Wash clothing before reuse.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get

medical aid immediately.

In Case of Ingestion: If victim is fully conscious, give a cupful of water. Never give anything by mouth to an

unconscious person. Call a poison control center.

Note to Physician: Treat symptomatically and supportively. Show this safety data sheet to the doctor in

attendance.

5. FIRE FIGHTING MEASURES

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand,

MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to

keep fire-exposed containers cool.

Flammable Properties and

Hazards:

No data available.

Hazardous Combustion

nazaraous combastion

No data available.

Products:

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions,
Protective Equipment and

Protective Equipment and

Environmental Precautions:

Emergency Procedures:

Use proper personal protective equipment as indicated in Section 8.

Do not let this chemical enter the environment. Avoid runoff into storm sewers and

ditches which lead to waterways. Clean up spills immediately, observing precautions in

the Protective Equipment section.

Steps To Be Taken In Case Material Is Released Or

Spilled:

Provide ventilation. Do not get water on spilled substances or inside containers. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

7. HANDLING AND STORAGE

Precautions To Be Taken in

Handling:

Use with adequate ventilation. Do not ingest or inhale. Avoid ingestion and inhalation.

Avoid breathing dust, vapor, mist, or gas. Wash thoroughly after handling.

Precautions To Be Taken in

Storing:

Store in a cool, dry, well-ventilated area away from incompatible substances. Store in a

tightly closed container.

Other Precautions: Handle in accordance with good industrial hygiene and safety practice.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS # Partial Chemical Name OSHA TWA ACGIH TWA Other Limits

77-92-9 Citric acid No data. No data. No data. No data.

Respiratory Equipment

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure

(Specify Type): limits are exceeded or if irritation or other symptoms are experienced.

Eye Protection: Wear chemical splash goggles.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene

gloves.

Other Protective Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.):

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne

concentrations below the permissible exposure limits.

Work/Hygienic/Maintenance

Practices:

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Colorless. to. Pale yellow.

pH: 1.0 - 3.0

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or

mm Hg):

No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): 1.238 - 1.258

Solubility in Water: No data.

Octanol/Water Partition

No data.

Coefficient:

Autoignition Pt: No data.

Decomposition Temperature: No data.

Viscosity: No data.

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]

Conditions To Avoid -

Incompatible materials, ignition sources.

Instability:

Incompatibility - Materials To Strong oxidizing agents, Strong bases, chlorine.

Avoid:

Hazardous Decomposition or carbon monoxide, carbon dioxide.

Byproducts:

Possibility of Hazardous Will occur [] Will not occur [X]

Reactions:

Conditions To Avoid - No data available.

Hazardous Reactions:



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11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Mutagenicity: No data available. Neurotoxicity: No data available.

CAS# 77-92-9: Citric acid: Acute toxicity, LD50, Oral, Rat, 3.000 GM/KG.

Acute toxicity, LD50, Oral, Mouse, 5040. MG/KG.

Acute toxicity, LDLO, Oral, Species: Rabbit, 7.000 GM/KG.

Carcinogenicity/Other Information:

OSHA: No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

CAS # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA

77-92-9 Citric acid n.a. n.a. n.a. n.a. n.a.

12. ECOLOGICAL INFORMATION

General Ecological Environmental: No information available. **Information:** Physical: No information available.

CAS# 77-92-9: Citric acid: Not reported., Rainbow Trout (Oncorhynchus mykiss), 10900.

- 17900. UG/G, 1 - 5 W, Feeding Behavior.

Effective concentration to 100% of test organisms., Water Flea (Daphnia magna), 2083.

MG/L, 24 H, Behavior.

Effective concentration to 0 % of test organisms, Green Algae (Scenedesmus

quadricauda), 640000. UG/L, Population.

Not reported., Diatom (Chaetoceros gracilis), 1000. - 300000. UG/L, 7 D, Population.

Persistence and

Degradability:

No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

GHS format



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13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class: UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

Hazardous Components (Chemical Name) CAS# S. 302 (EHS) S. 304 RQ S. 313 (TRI)

77-92-9 Citric acid No Nο No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists	
[] Yes [X] No	(Physical) Hazard Not Otherwise Classified (HNOC)		
[] Yes [X] No	Combustible Dust		
[] Yes [X] No	In contact with water emits flammable gas	[] Yes [X] No	(Health) Hazard Not Otherwise Classified (HNOC)
[] Yes [X] No	Gas under pressure (compressed gas)	[] Yes [X] No	Simple Asphyxiant
[] Yes [X] No	Corrosive to metal	[] Yes [X] No	Aspiration Hazard
[] Yes [X] No	Organic peroxide	[] Yes [X] No	Specific target organ toxicity (single or repeated exposure
[] Yes [X] No	Self-heating	[] Yes [X] No	Reproductive toxicity
[] Yes [X] No	Pyrophoric gas	[] Yes [X] No	Carcinogenicity
[] Yes [X] No	Pyrophoric (liquid or solid)	[] Yes [X] No	Germ cell mutagenicity
[] Yes [X] No	Self-reactive	[] Yes [X] No	Respiratory or Skin Sensitization
[] Yes [X] No	Oxidizer (liquid, solid or gas)	[X] Yes [] No	Serious eye damage or eye irritation
[] Yes [X] No	Flammable (gases, aerosols, liquid, or solid)	[X] Yes [] No	Skin Corrosion or Irritation
[] Yes [X] No	Explosive	[X] Yes [] No	Acute toxicity (any route of exposure)

77-92-9 Citric acid CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No;

NJ EHS: No; NY Part 597: No; PA HSL: No

16. OTHER INFORMATION

07/10/2019 **Revision Date:**

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

While Morgan-Gallacher believes the statements set forth herein are accurate as of the date hereof, Morgan-Gallacher makes no warranty with respect thereto and expressly

disclaims all liability for reliance thereon. Such data is offered solely for your

consideration, investigation, and verification.