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1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: MORGAN-225-BULK

Product Name: MG 4-Quat

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 1C

Serious Eye Damage/Eye Irritation, Category 1

Flammable Liquids, Category 4





GHS Signal Word: Danger

GHS Hazard Phrases: Combustible liquid. Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

GHS Precautionary Phrases: Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face 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.

GHS Storage and Disposal Store in cool/well-ventilated place.

Phrases: Store locked up.

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

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Inhalation: May be 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: Causes eye irritation. Causes eye burns.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # Hazardous Components (Chemical Name) Concentration
68424-85-1 Quaternary ammonium < 5.0 %

compounds,benzyl-C12-16-alkyldimethyl,

chlorides

32426-11-2 1-Decanaminium, N,N-Dimethyl-N-octyl-, chloride < 5.0 % 5538-94-3 1-Octanaminium, N,N-Dimethyl-N-octyl-, chloride < 5.0 % 7173-51-5 1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride < 5.0 %

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.

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

clothing and shoes. Get medical aid. Wash clothing before reuse.

In Case of Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate

medical attention. Gently lift eyelids and flush continuously with water. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15

minutes. Get medical advice/attention.

In Case of Ingestion: Never give anything by mouth to an unconscious person. If swallowed, do NOT induce

vomiting. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention

immediately.

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

attendance.

5. FIRE FIGHTING MEASURES

Flash Pt: 116.60 F

Explosive Limits: LEL: No data UEL: No data

Autoignition Pt: NA

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

noncombustible; use agent most appropriate to extinguish surrounding fire.

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.

Flammable Properties and

Hazards:

No data available.

Hazardous Combustion Hazardous decomposition products formed under fire conditions: Carbon oxides,

Products: nitrogen oxides (NOx), Further information.

Use water spray to cool unopened containers.



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6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:

Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions:

Observe all federal, state, and local environmental regulations. Do not let product enter

drains, sewers, watersheds or water systems.

Steps To Be Taken In Case Material Is Released Or Spilled:

Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid breathing vapors, mist

or gas.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:

Avoid contact with eyes, skin, and clothing. Avoid breathing dust, mist, or vapor. Use only with adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Take precautionary measures against static discharges. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Do not allow to evaporate to

near dryness.

Precautions To Be Taken in

Storing:

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from heat, sparks and flame. Keep from contact with oxidizing materials. Do not store in direct sunlight. Store in a tightly closed container. Flammables-area. Protect containers

against damage. Keep container closed when not in use.

Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Other Precautions:

Handle in accordance with good industrial hygiene and safety practice. Keep out of

reach of children.

EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68424-85-1	Quaternary ammonium compounds,benzyl-C12-16-alkyldimeth yl, chlorides	No data.	No data.	No data.
32426-11-2	1-Decanaminium, N,N-Dimethyl-N-octyl-, chloride	No data.	No data.	No data.
5538-94-3	1-Octanaminium, N,N-Dimethyl-N-octyl-, chloride	No data.	No data.	No data.
7173-51-5	1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride	No data.	No data.	No data.

Respiratory Equipment

(Specify Type):

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's

use.

Wear appropriate protective eyeglasses or chemical safety goggles as described by Eye Protection:

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

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

Facilities storing or utilizing this material should be equipped with an eyewash facility and

a safety shower. (Ventilation etc.):

Work/Hygienic/Maintenance

Practices:

Handle in accordance with good industrial hygiene and safety practice. Wash hands

before breaks and at the end of workday.



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9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance and Odor: Transparent. 6.0 - 8.0pH:

NΡ **Melting Point: Boiling Point:** NA 116.60 F Flash Pt: NA **Evaporation Rate:**

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data UEL: No data

NA

Vapor Pressure (vs. Air or

mm Hg):

Vapor Density (vs. Air = 1): NA

0.99 - 1.01Specific Gravity (Water = 1): 100% Solubility in Water: **Saturated Vapor** NA

Concentration:

Octanol/Water Partition

No data.

Coefficient:

NA **Percent Volatile: Autoignition Pt:** NA **Decomposition Temperature: NA** Viscosity: NA

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]

Conditions To Avoid -

Instability:

Avoid extremely high temperature. Keep from contact with oxidizing materials.

Incompatibility - Materials To Strong oxidizing agents, Anionic Surfactants.

Hazardous Decomposition or Carbon oxides, Hydrogen chloride gas, nitrogen oxides (NOx), irritating and toxic fumes

Byproducts: and gases.

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

Reproductive toxicity - no data available.

Respiratory or skin sensitization:

CAS# 7173-51-5: 1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride: Acute toxicity,

LD50, Oral, Rat, 84.00 MG/KG.

Irritation or Corrosion: Other Studies: CAS# 68424-85-1:

Acute toxicity, LD, Oral, Rat,426 mg/kg

Other Studies: CAS# 68424-85-1:

Standard Draize Test, Skin, Species: Rabbit, 25 mg, 24 H

Carcinogenicity/Other Information:

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.

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.

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 IARC Monographs? No OSHA Regulated? No Carcinogenicity: CAS# **Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA** 68424-85-1 Quaternary ammonium n.a. n.a. n.a. n.a. compounds, benzyl-C12-16-alkyldimethyl, chlorides 32426-11-2 1-Decanaminium, N,N-Dimethyl-N-octyl-, chloride n.a. n.a. n.a. n.a. 5538-94-3 1-Octanaminium, N,N-Dimethyl-N-octyl-, chloride n.a. n.a. n.a. n.a. 7173-51-5 1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride n.a. n.a. n.a. n.a.

12. ECOLOGICAL INFORMATION

General Ecological

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

Information:

An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

environment.

Results of PBT and vPvB

Other Studies: CAS# 5538-94-3:

assessment:

LC50, Fathead Minnow (Pimephales promelas), 5.2ppm, 96H

Other Studies: CAS# 7173-51-5:

LC50, Water Flea (Daphnia magna), 160 ug/L, 48H

LC50, Fathead Minnow (Pimephales promelas), larvae, 470 ug/L, 24H

LC50, Rainbow trout (Oncorhynchus mykiss), 750 ug/L, 48H

Other Studies: CAS# 68424-85-1:

LC50, Rainbow trout (Oncorhynchus mykiss), 1.600ppm, 96H, Mortality



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LC50, Striped bass (Morone saxatilis), 2820 ug/L, fry, 24H, Mortality

Persistence and

Product is biodegradable.

Degradability:

Bioaccumulative Potential: No data available. No data available. **Mobility in Soil:**

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. 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: Disinfectants, liquid, corrosive n.o.s. (Quaternary Ammonium Chloride)

CORROSIVE DOT Hazard Class:

UN/NA Number: UN1903 Ш **Packing Group:**



15. REGULATORY INFORMATION

EPA SARA (S	Superfund Amen	dments and	Reauthorization A	Act of 1	1986) Lists
CAS#	Hazardous Co	mnonents (Chemical Name)	9	S 302 (FHS)

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	No	No	No
32426-11-2	1-Decanaminium, N,N-Dimethyl-N-octyl-, chloride	No	No	No
5538-94-3	1-Octanaminium, N,N-Dimethyl-N-octyl-, chloride	No	No	No
7173-51-5	1-Decanaminium, N-Decvl-N,N-dimethyl-, chloride	No	No	No

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

CAC#		Hazardaya Campananta (Chamical Nama)	Other HC E	DA or Ctata Lista
[] 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
[X] Yes [] 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)
		<u> </u>		

CAS# **Hazardous Components (Chemical Name)** Other US EPA or State Lists

68424-85-1 Quaternary ammonium CWA NPDES: No; TSCA: Yes - Inventory, 4 Test; CA

> compounds, benzyl-C12-16-alkyldimethyl, PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI chlorides CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No



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32426-11-2 1-Decanaminium, N,N-Dimethyl-N-octyl-, chloride 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

5538-94-3 1-Octanaminium, N,N-Dimethyl-N-octyl-, chloride 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

7173-51-5 1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride 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

Regulatory Information: This product is considered a pesticide, and therefore excluded from US TSCA

regulations.

16. OTHER INFORMATION

Revision Date: 03/11/2019

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.