

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** MORGAN-131-BULK  
**Product Name:** MG ChlorSan  
**Company Name:** Morgan-Gallacher, Inc.  
 8707 Millergrove Drive  
 Santa Fe Springs, CA 90670  
**Emergency Contact:** CHEMTREC

**Phone Number:**  
 +1 (562)695-1232  
 +1 (800)424-9300

## 2. HAZARDS IDENTIFICATION

**Skin Corrosion/Irritation, Category 1C**  
**Aquatic Toxicity (Acute), Category 1**  
**Acute Toxicity: Inhalation, Category 5**  
**Serious Eye Damage/Eye Irritation, Category 1**  
**Acute Toxicity: Oral, Category 4**



**GHS Signal Word:**

**Danger**

**GHS Hazard Phrases:**

Harmful if swallowed.  
 Causes severe skin burns and eye damage.  
 May be harmful if inhaled.  
 Very toxic to aquatic life.

**GHS Precautionary Phrases:**

Keep out of reach of children.  
 Read label before use.  
 Keep only in original container.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash hands thoroughly after handling.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Do not get in eyes, on skin, or on clothing.  
 Take any precaution to avoid mixing with Acid Products and Ammoniated Products...

**GHS Response Phrases:**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 Get immediate medical advice/attention.  
 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes.  
 Get immediate medical advice/attention. Wash contaminated clothing before reuse.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Get immediate medical advice/attention.  
 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.

**GHS Storage and Disposal 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.

<b>Inhalation:</b>	May cause chemical burns to the respiratory tract. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.
<b>Skin Contact:</b>	Causes skin irritation. Causes skin burns.
<b>Eye Contact:</b>	Causes eye irritation. Causes eye burns.
<b>Ingestion:</b>	Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause burns to the digestive tract.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
7681-52-9	Sodium hypochlorite	<15.0 %

### 4. FIRST AID MEASURES

**Emergency and First Aid Procedures:**

<b>In Case of Inhalation:</b>	Remove from exposure and move to fresh air immediately. Get medical aid immediately.
<b>In Case of Skin Contact:</b>	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical aid immediately.
<b>In Case of Eye Contact:</b>	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.
<b>In Case of Ingestion:</b>	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.
<b>Note to Physician:</b>	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

### 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	NA	
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Autoignition Pt:</b>	NA	
<b>Suitable Extinguishing Media:</b>	Water spray.	
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is noncombustible.	
<b>Flammable Properties and Hazards:</b>	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.	
<b>Hazardous Combustion Products:</b>	High temperatures and fires may produce toxic: carbon and nitrogen oxides chlorine, hydrogen chloride, hydrogen gas, sodium oxide.	

### 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Environmental Precautions:</b>	Observe all federal, state, and local environmental regulations. Do not let product enter drains, sewers, watersheds or water systems.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Ensure adequate ventilation. Avoid breathing vapors, mist or gas.

## 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash thoroughly after handling.
<b>Precautions To Be Taken in Storing:</b>	Store in a cool, dry, well-ventilated area away from incompatible substances. Store in a tightly closed container. Keep container closed when not in use.
<b>Other Precautions:</b>	Handle in accordance with good industrial hygiene and safety practice.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7681-52-9	Sodium hypochlorite	No data.	TLV: 0.5 ppm as Cl <sub>2</sub> STEL: 1 ppm as Cl <sub>2</sub>	No data.
<b>Respiratory Equipment (Specify Type):</b>	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.			
<b>Eye Protection:</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.			
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.			
<b>Engineering Controls (Ventilation etc.):</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.			
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice.			

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas    [ X ] Liquid    [ ] Solid	
<b>Appearance and Odor:</b>	Yellow. Liquid. Transparent.	
<b>pH:</b>	No data.	
<b>Melting Point:</b>	NA	
<b>Boiling Point:</b>	NA	
<b>Flash Pt:</b>	NA	
<b>Evaporation Rate:</b>	No data.	
<b>Flammability (solid, gas):</b>	No data available.	
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.	
<b>Vapor Density (vs. Air = 1):</b>	No data.	
<b>Specific Gravity (Water = 1):</b>	1.19 - 1.21	
<b>Solubility in Water:</b>	100%	

**Octanol/Water Partition Coefficient:** No data.  
**Autoignition Pt:** NA  
**Decomposition Temperature:** No data.  
**Viscosity:** No data.

**10. STABILITY AND REACTIVITY**

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** Incompatible materials, Light.  
**Incompatibility - Materials To Avoid:** methanol, metals, Oxidizing agents, Reducing agents, Strong acids, acids (organic, e.g. acetic acid, benzoic acid, formic acid, methanoic acid, oxalic acid), ammonia.  
**Hazardous Decomposition or Byproducts:** Hydrogen chloride, chlorine, sodium oxide.  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions:** No data available.

**11. TOXICOLOGICAL INFORMATION**

**Toxicological Information:** Reproductive Effects: No information available.  
Teratogenicity: No information available.  
Neurotoxicity: No information available.  
Mutagenicity: No information available.  
Epidemiology: No information available.  
CAS# 7681-52-9: Sodium hypochlorite: Acute toxicity, LD50, Oral, Mouse, 5800. MG/KG.

**Irritation or Corrosion:** Other Studies: CAS# 7681-52-9:  
Acute toxicity, LD50, Oral, Mouse, 5800 mg/kg

Other Studies: CAS# 7681-52-9:  
Standard Draize Test, Eyes, Species: Rabbit, 1.310 mg, Mild

**Carcinogenicity/Other Information:** 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.

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.

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.

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

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7681-52-9	Sodium hypochlorite	n.a.	n.a.	n.a.	n.a.

## 12. ECOLOGICAL INFORMATION

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

**Results of PBT and vPvB assessment:** CAS# 7681-52-9: Sodium hypochlorite: LC50, Harpacticoid Copepod (*Nitocra spinipes*), adult(s), 38000. UG/L, 96 H, Mortality.  
Other Studies: CAS# 7681-52-9  
LC50, Rainbow trout (*Oncorhynchus mykiss*), 59.00 ug/L, 96H, Mortality  
LC50, Water flea (*Daphnia magna*), 32.00 ug/L, 48H, Mortality  
LC50, Bleak (*Alburnus alburnus*), 30000 - 35000 ug/L, 96H, Mortality.

**Persistence and Degradability:** No information available.

**Bioaccumulative Potential:** No information available.

**Mobility in Soil:** No information available.

## 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:** HYPOCHLORITE SOLUTIONS.  
**DOT Hazard Class:** 8 CORROSIVE  
**UN/NA Number:** UN1791 **Packing Group:** III



## 15. REGULATORY INFORMATION

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

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7681-52-9	Sodium hypochlorite	No	Yes 100 LB	No

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

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Explosive	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flammable (gases, aerosols, liquid, or solid)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Skin Corrosion or Irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-reactive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-heating	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Reproductive toxicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Organic peroxide	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Specific target organ toxicity (single or repeated exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corrosive to metal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Aspiration Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Gas under pressure (compressed gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Simple Asphyxiant
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	In contact with water emits flammable gas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Health) Hazard Not Otherwise Classified (HNOC)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Combustible Dust		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Physical) Hazard Not Otherwise Classified (HNOC)		

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7681-52-9	Sodium hypochlorite	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: No; NY Part 597: Yes: HS; PA HSL: Yes - E

## 16. OTHER INFORMATION

**Revision Date:** 07/11/2019

**Additional Information About This Product:** 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.