

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Code:** MORGAN-054-BULK  
**Product Name:** Clor VL  
**Company Name:** Morgan-Gallacher, Inc.  
8707 Millergrrove Drive  
Santa Fe Springs, CA 90670  
**Phone Number:** +1 (562)695-1232  
**Emergency Contact:** CHEMTREC +1 (800)424-9300

**2. HAZARDS IDENTIFICATION**

Serious Eye Damage/Eye Irritation, Category 2A  
Skin Corrosion/Irritation, Category 1A  
Acute Toxicity: Oral, Category 4  
Aquatic Toxicity (Acute), Category 3  
Corrosive To Metals, Category 1



**GHS Signal Word:** **Danger**  
**GHS Hazard Phrases:** May be corrosive to metals.  
Harmful if swallowed.  
Causes severe skin burns and eye damage.  
Harmful to aquatic life.  
**GHS Precautionary Phrases:** Keep out of reach of children.  
Read label before use.  
Do not get in eyes, on skin, or on clothing.  
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.  
Take any precaution to avoid mixing with Water and Acid 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.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If experiencing respiratory symptoms: Get 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 severe irritation of the upper respiratory tract with pain, burns, and inflammation. Inhalation of the dust of sodium dichloroisocyanurate dihydrate may induce bronchospasm. Liberation of chlorine gas in the lungs may cause potentially fatal delayed onset noncardiogenic pulmonary edema.
<b>Skin Contact:</b>	Harmful if absorbed through the skin. May cause severe burns with delayed tissue destruction. May cause skin irritation. Causes redness and pain.
<b>Eye Contact:</b>	Causes eye burns. May cause chemical conjunctivitis and corneal damage.
<b>Ingestion:</b>	Harmful if swallowed. May cause severe and permanent damage to the digestive tract. May cause systemic effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
NA	Phosphate	<30.0 %
1310-73-2	Sodium hydroxide	<20.0 %
6834-92-0	Sodium metasilicate	<10.0 %
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt	< 2.0 %

### 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.
<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 advice/attention.
<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.
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. Wash mouth out with water. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.

**Signs and Symptoms Of Exposure:** Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath.

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

### 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	NP
<b>Explosive Limits:</b>	LEL: No data. <span style="margin-left: 200px;">UEL: No data.</span>
<b>Autoignition Pt:</b>	NA
<b>Suitable Extinguishing Media:</b>	Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers. Do not use dry chemical extinguisher containing ammonia compounds.
<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. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. Contact with metals may evolve flammable hydrogen gas.
<b>Flammable Properties and Hazards:</b>	No data available.

**Hazardous Combustion**      No data available.

**Products:**

### 6. ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case Material Is Released Or Spilled:**      Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Avoid runoff into storm sewers and ditches which lead to waterways. Do not get water on spilled substances or inside containers. Use personal protective equipment. Ensure adequate ventilation.

### 7. HANDLING AND STORAGE

**Precautions To Be Taken in Handling:**      Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Wash thoroughly after handling. Do not allow water to get into the container because of violent reaction. Keep container tightly closed. Use with adequate ventilation.

**Precautions To Be Taken in Storing:**      Store in a tightly closed container. Keep away from acids. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	Phosphate	No data.	No data.	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
6834-92-0	Sodium metasilicate	No data.	No data.	No data.
51580-86-0	1,3,5-Triazine-2,4,6-(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt	No data.	No data.	No data.

**Respiratory Equipment (Specify Type):**      Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Eye Protection:**      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.

**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. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas [ ] Liquid [X] Solid	
<b>Appearance and Odor:</b>	Off-white. Free flowing granules.	
<b>pH:</b>	> 12.0@1.0%Sol	
<b>Melting Point:</b>	NP	
<b>Boiling Point:</b>	NP	
<b>Flash Pt:</b>	NP	
<b>Evaporation Rate:</b>	NP	
<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>	NP	
<b>Vapor Density (vs. Air = 1):</b>	NP	
<b>Specific Gravity (Water = 1):</b>	NA	
<b>Density:</b>	NA	
<b>Bulk density:</b>	NA	
<b>Solubility in Water:</b>	100%	
<b>Saturated Vapor Concentration:</b>	NP	
<b>Octanol/Water Partition Coefficient:</b>	No data.	
<b>Autoignition Pt:</b>	NA	
<b>Decomposition Temperature:</b>	NA	
<b>Viscosity:</b>	NP	
<b>Particle Size:</b>	NA	

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Unstable [ ] Stable [X]
<b>Conditions To Avoid - Instability:</b>	Incompatible materials, dust generation, Excess heat, Moisture, contact with water.
<b>Incompatibility - Materials To Avoid:</b>	Acids, Strong oxidizing agents. Contact of this product with many "active" metals such as aluminum, tin, copper, zinc, and most alloys can cause formation of flammable hydrogen gas.
<b>Hazardous Decomposition or Byproducts:</b>	Carbon monoxide, Carbon dioxide, Toxic fumes of sodium oxide, oxides of nitrogen, Hydrogen chloride, chlorine, silicon oxides. formed under fire conditions.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ] Will not occur [X]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

**11. TOXICOLOGICAL INFORMATION**

**Toxicological Information:** Epidemiology: No information found.  
 Teratogenicity: Teratogenic effects have occurred in experimental animals.  
 Reproductive Effects: No information available.  
 Mutagenicity: No information available.  
 Neurotoxicity: No information available.  
 CAS# 1310-73-2: Sodium hydroxide: Acute toxicity, LD50, Oral, Rat, 325.0 MG/KG.  
 Acute toxicity, LDLO, Oral, Species: Rabbit, 500.0 MG/KG.  
 Acute toxicity, LD50, Dermal, Rabbit, 1350. MG/KG.  
 Standard Draize Test, Eyes, Species: Monkey., 1.000 %, 24 H.  
 Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H.  
 CAS# 6834-92-0: Sodium metasilicate: Acute toxicity, LD50, Oral, Rat, 1153. MG/KG.  
 Acute toxicity, LD50, Oral, Mouse, 770.0 MG/KG.  
 CAS# 51580-86-0: 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt:  
 Acute toxicity, LD50, Oral, Rat, 1823. MG/KG.  
 Acute toxicity, LD50, Dermal, Rabbit, > 2000. MG/KG.  
 Acute toxicity, LC50, Inhalation, Rat, 0.270 - 1.170 MG/L, 4 H.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
NA	Phosphate	n.a.	n.a.	n.a.	n.a.
1310-73-2	Sodium hydroxide	n.a.	n.a.	n.a.	n.a.
6834-92-0	Sodium metasilicate	n.a.	n.a.	n.a.	n.a.
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt	n.a.	n.a.	n.a.	n.a.

**12. ECOLOGICAL INFORMATION**

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

CAS# 1310-73-2: Sodium hydroxide: LC50, Cockle (Cerastoderma edule), adult(s), 330000. - 1000000. UG/L, 48 H, Mortality.  
 LC50, Western Mosquitofish (Gambusia affinis), adult(s), 125000. UG/L, 24 H, Mortality.  
 LC50, Guppy (Poecilia reticulata), 145000. UG/L, 24 H, Mortality.  
 CAS# 6834-92-0: Sodium metasilicate: Effective concentration to 50% of test organisms., Water Flea (Ceriodaphnia dubia), neonate, 33.53 MG/L, 48 H, Intoxication., Effective concentration to 50% of test organisms., Blue-Green Algae (Microcystis aeruginosa), 800000. UG/L, Population.  
 CAS# 51580-86-0: 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt: LC50, Rainbow Trout (Oncorhynchus mykiss), 0.250 PPM, 96 H, Mortality.  
 Effective concentration to 50% of test organisms., Water Flea (Daphnia magna), 0.280 PPM, 48 H, Intoxication,.

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

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data 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:** Corrosive solid, basic, inorganic, n.o.s.(Sodium Hydroxide & Sodium Metasilicate)

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** UN3262 **Packing Group:** II



**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)
NA	Phosphate	No	No	No
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No
6834-92-0	Sodium metasilicate	No	No	No
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt	No	No	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 checked="" type="checkbox"/> Yes <input 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
NA	Phosphate	CWA NPDES: No; TSCA: No; 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
1310-73-2	Sodium hydroxide	CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC: Cat. IIb, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: No; NY Part 597: Yes: HS; PA HSL: Yes - E
6834-92-0	Sodium metasilicate	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
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt	CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS:

## 16. OTHER INFORMATION

**Revision Date:** 05/28/2019

**Additional Information About This Product:** No data available.

**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.