



### Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 11/02/2018

Reviewed on 11/02/2018

## 1 Identification

- **Product Identifier**
- **Trade Name:** Glass Gleam
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Cleaner
- **Application of the substance / the mixture:** Custom Glass Cleaner Concentrate
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
Nor Cal Pressure Washer Equipment  
250 South Maple  
# G  
South San Francisco, CA 94080  
+1-650-952-9997  
g9786@aol.com  
www.norcalpressurewash.com
- **Emergency telephone number:** 1-800-424-9300 (CHEMTREC)

## 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Acute Tox. 4 H302 Harmful if swallowed.  
 STOT SE 3 H336 May cause drowsiness or dizziness.  
 Eye Irrit. 2B H320 Causes eye irritation.

- **Label elements:**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07

- **Signal word:** Warning
- **Hazard statements:**  
H302 Harmful if swallowed.  
H320 Causes eye irritation.  
H336 May cause drowsiness or dizziness.
- **Precautionary statements:**  
P262 Do not get in eyes, on skin, or on clothing.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face protection.  
P301+P312 If swallowed: Call a doctor if you feel unwell.



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- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P320 Specific treatment is urgent (see supplementary first aid instructions on this Safety Data Sheet).
- P322 Specific measures (see supplementary first aid instructions on this Safety Data Sheet).
- P332+P313 If skin irritation occurs: Get medical advice.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

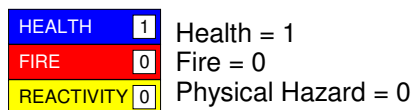
**Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values. 0 % of the mixture consists of component(s) of unknown toxicity.

- Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- NFPA ratings (scale 0 - 4)**



**HMIS-ratings (scale 0 - 4)**



- Hazard(s) not otherwise classified (HNOC):** None known

### \* 3 Composition/Information on Ingredients

- Chemical characterization: Mixtures**
- Description:** Mixture of substances listed below with non-hazardous additions.

**Dangerous Components:**

CAS: 64-17-5	Ethanol	<2%
RTECS: KQ 6300000	Flam. Liq. 2, H225; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	

**Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

### \* 4 First-Aid Measures

- Description of first aid measures**
- General information:** Immediately remove any clothing soiled by the product.
- After inhalation:**  
Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
- After skin contact:**  
Take off contaminated clothing and shoes immediately. Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.

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• **After eye contact:**

Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. If eye irritation persists, obtain medical attention.

• **After swallowing:**

Rinse mouth with water. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious person. Seek medical attention if you feel unwell.

• **Information for doctor**

• **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### \* 5 Fire-Fighting Measures

• **Extinguishing media**

• **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

• **For safety reasons unsuitable extinguishing agents:** No further relevant information.

• **Special hazards arising from the substance or mixture:**

Ammonia

Carbon Oxides

Formaldehyde

Nitrogen Oxides (NOx)

Sodium Oxides

Sulfur Oxides

• **Advice for firefighters**

• **Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### \* 6 Accidental Release Measures

• **Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment.

Keep from contacting skin or eyes.

Avoid breathing vapors, mist or gas.

Remove all sources of ignition.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

• **Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

• **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

• **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.



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• **Protective Action Criteria for Chemicals**

• <b>PAC-1:</b>		
64-17-5	Ethanol	1,800 ppm
• <b>PAC-2:</b>		
64-17-5	Ethanol	3300* ppm
• <b>PAC-3:</b>		
64-17-5	Ethanol	15000* ppm

\* **7 Handling and Storage**

- **Handling**
- **Precautions for safe handling:**  
 Avoid breathing vapors or mist.  
 Avoid contact with eyes, skin, or clothing.  
 Use approved, original containers only.  
 Keep containers closed when not in use.  
 Do not expose containers to open flame, excessive heat, or direct sunlight.  
 Do not puncture or drop containers.  
 Handle with care and avoid spillage on the floor.  
 Keep material out of reach of children.  
 Keep material away from incompatible materials.  
 Wash thoroughly after handling.  
 Ensure adequate ventilation.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
 Keep away from heat, sparks and flames.  
 Store away from strong acids, strong bases, strong oxidizing agents, Alkali metals and Ammonia.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

\* **8 Exposure Controls/Personal Protection**

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**

• <b>Components with occupational exposure limits:</b>	
<b>64-17-5 Ethanol</b>	
PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**  
 The usual precautionary measures for handling chemicals should be followed.



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Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing and wash before reuse.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

• **Breathing equipment:**

Have self-contained breathing apparatus, positive pressure, MSHA/NIOSH (approved or equivalent) available in case of spillage or equipment failure.

• **Protection of hands:**



Protective gloves

- **Material of gloves:** Viton, Nitrile or Buna rubber.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:**



Safety glasses

## 9 Physical and Chemical Properties

• **Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form:	Liquid
Color:	bright blue
Odour:	Faint, Ethanol-like
Odor threshold:	Not determined.

• **pH-value @ 20 °C (68 °F):** 6.5-7.5

• **Change in condition**

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	100 °C (212 °F)

• **Flash point:** None

• **Flammability (solid, gaseous):** Not applicable.

• **Ignition temperature:** Not applicable

• **Decomposition temperature:** Not determined.

• **Auto igniting:** Product is not self-igniting.

• **Danger of explosion:** Product does not present an explosion hazard.

• **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

• **Vapor pressure:** Not determined.

• **Density @ 20 °C (68 °F):** 1.007 g/cm<sup>3</sup> (8.4034 lbs/gal)



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- **Relative density:** Not determined.
- **Vapor density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with:**
- Water:** Fully Soluble
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
- Dynamic:** Not determined.
- Kinematic:** Not determined.
- **Solvent content:**
- VOC content:** 1.53 %
- Solids content:** 0.0 %
- **Other information:** No further relevant information available.

### \* 10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Incompatibilities, flames, ignition sources.
- **Incompatible materials:** Strong acids, strong bases, strong oxidizing agents, Alkali metals and Ammonia.
- **Hazardous decomposition products:** Ammonia, Carbon Oxides, Formaldehyde, Nitrogen Oxides (NOx), Sodium Oxides and Sulfur Oxides.

### \* 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

#### 64-17-5 Ethanol

Oral	LD50	7,060 mg/kg (Rat) Remarks: Lungs, Thorax, or Respiration: Other changes. Carcinogenicity - Mouse - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease. Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Heart - Irregularities - Based on Human Evidence Central nervous system - Breathing difficulties - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence
Inhalative	LC50/4 h	20,000 mg/l (Rat)
	LC50/96 hours	12,900-15,300 mg/l (Trout)

- **Primary irritant effect:**
- **On the skin:** Strong caustic effect on skin and mucous membranes.

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- **On the eye:**  
Irritating effect.  
Corrosive effect.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Corrosive  
Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**  
The IARC (the International Agency for Research on Cancer) concluded that ethanol found alcoholic beverages to be Group 1 - Carcinogenic to humans. All other instances it is not consider carcinogenic.  
Group 1 - Carcinogenic to humans  
Group 2A - Probably carcinogenic to humans  
Group 2B - Possibly carcinogenic to humans  
Group 3 - Not classifiable as to its carcinogenicity to humans  
Group 4 - Probably not carcinogenic to humans

64-17-5 Ethanol	1
· <b>NTP (National Toxicology Program):</b> None of the ingredients are listed.	
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration):</b> None of the ingredients are listed.	

### \* 12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:**  
64-17-5 Ethanol  
EC50 34,900 mg/l (Daphnia)
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Must not reach bodies of water or drainage ditch undiluted or unneutralized.  
Danger to drinking water if even small quantities leak into the ground.  
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.



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### \* 13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### \* 14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Stowage Category** B
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

### \* 15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

• <b>Section 355 (extremely hazardous substances):</b>	None of the ingredients are listed.
• <b>Section 313 (Specific toxic chemical listings):</b>	None of the ingredients are listed.
• <b>TSCA (Toxic Substances Control Act):</b>	All ingredients are listed or exempt from listing.
• <b>California Proposition 65:</b>	
• <b>Chemicals known to cause cancer:</b>	None of the ingredients are listed.
• <b>Chemicals known to cause reproductive toxicity for females:</b>	None of the ingredients are listed.
• <b>Chemicals known to cause reproductive toxicity for males:</b>	None of the ingredients are listed.

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<b>Chemicals known to cause developmental toxicity:</b>	
All ingredients are listed.	
<b>New Jersey Right-to-Know List:</b>	
All ingredients are listed.	
<b>New Jersey Special Hazardous Substance List:</b>	
64-17-5 Ethanol	CA, MU, TE, F3
<b>Pennsylvania Right-to-Know List:</b>	
All ingredients are listed.	
<b>Pennsylvania Special Hazardous Substance List:</b>	
None of the ingredients are listed.	
<b>Carcinogenic categories:</b>	
<b>EPA (Environmental Protection Agency):</b>	
None of the ingredients are listed.	
<b>TLV (Threshold Limit Value established by ACGIH):</b>	
64-17-5 Ethanol	A3
<b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>	
None of the ingredients are listed.	

**GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms:**



GHS07

- Signal word:** Warning
- Hazard statements:**
  - H302 Harmful if swallowed.
  - H320 Causes eye irritation.
  - H336 May cause drowsiness or dizziness.
- Precautionary statements:**
  - P262 Do not get in eyes, on skin, or on clothing.
  - P264 Wash thoroughly after handling.
  - P270 Do not eat, drink or smoke when using this product.
  - P273 Avoid release to the environment.
  - P280 Wear protective gloves / eye protection / face protection.
  - P301+P312 If swallowed: Call a doctor if you feel unwell.
  - P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
  - P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P320 Specific treatment is urgent (see supplementary first aid instructions on this Safety Data Sheet).
  - P322 Specific measures (see supplementary first aid instructions on this Safety Data Sheet).
  - P332+P313 If skin irritation occurs: Get medical advice.



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P337+P313 P501	If eye irritation persists: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/international regulations.
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- **National regulations:**  
None of the ingredients are listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision:** 11/02/2018 / 8
- **Abbreviations and acronyms:**  
 ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety and Health  
 OSHA: Occupational Safety & Health Administration  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- **\* Data compared to the previous version altered.**  
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