



Think Blue. Go Green.

Safety Data Sheet (SDS)

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

Issue date 06/10/2018

Reviewed on 06/10/2018

1 Identification

- **Product Identifier**
- **Trade Name:** CL-090-K
084-K
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** No further relevant information
- **Application of the substance / the mixture:** Industry Specific Application
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
PUR WATER LLC
4885 Fulton Rd STE B
Fairfield, Ca 94534
Phone (707) 430-0121
- **Emergency telephone number:** InfoTrac:(800) 535-5053

2 Hazard(s) Identification

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



GHS03 Flame over circle

Ox. Liq. 3 H272 May intensify fire; oxidizer.



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Aquatic Acute 2 H401 Toxic to aquatic life.

- **Label elements:**

- **GHS label elements**

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

- **Hazard pictograms:**



GHS03



GHS06

- **Signal word:** Danger

- **Hazard-determining components of labeling:**

Sodium Nitrite

- **Hazard statements:**

H272 May intensify fire; oxidizer.

H301 Toxic if swallowed.



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H332 Harmful if inhaled.

H401 Toxic to aquatic life.

Precautionary statements:

- P210 Keep away from heat.
- P220 Keep/Store away from clothing/combustible materials.
- P221 Take any precaution to avoid mixing with combustibles.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P330 Rinse mouth.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a poison center/doctor if you feel unwell.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P405 Store locked up.
- 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)



Health = 1
Fire = 2
Reactivity = 0

The substance possesses oxidizing properties.

HMIS-ratings (scale 0 - 4)



Health = 1
Fire = 2
Physical Hazard = 0

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:

7631-99-4	Sodium Nitrate Ox. Sol. 3, H272	15-35%
7632-00-0	Sodium Nitrite Ox. Sol. 3, H272; Acute Tox. 3, H301; Acute Tox. 3, H331; Aquatic Acute 1, H400	15-35%

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• **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.
In case of irregular breathing or respiratory arrest provide artificial respiration.

• **After inhalation:**

If a cough develops the individual should seek medical attention.
In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.
If skin irritation occurs, consult a doctor.

• **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.
If eye irritation occurs, consult a doctor.
Rinse opened eye for several minutes under running water.

• **After swallowing:**

Do not induce vomiting.
Seek immediate medical advice.

• **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:** Water with full jet

• **Special hazards arising from the substance or mixture:** No further relevant information available.

• **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:**

Keep away from ignition sources
Ensure adequate ventilation.
Keep people at a distance and stay upwind.
Treat any fumes as toxic.

Wear protective equipment. Keep unprotected persons away.

• **Environmental precautions:** 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).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.



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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.

• **Protective Action Criteria for Chemicals**

• PAC-1:		
7631-99-4	Sodium Nitrate	4.1 mg/m ³
7632-00-0	Sodium Nitrite	6.4 mg/m ³
95-14-7	Benzotriazole	1.2 mg/m ³
• PAC-2:		
7631-99-4	Sodium Nitrate	45 mg/m ³
7632-00-0	Sodium Nitrite	71 mg/m ³
95-14-7	Benzotriazole	13 mg/m ³
• PAC-3:		
7631-99-4	Sodium Nitrate	270 mg/m ³
7632-00-0	Sodium Nitrite	240 mg/m ³
95-14-7	Benzotriazole	77 mg/m ³

* 7 Handling and Storage

• **Handling**

• **Precautions for safe handling:**

Avoid breathing fumes.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Open and handle receptacle with care.

• **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 sources and sunlight.

Protect from heat and direct sunlight.

• **Information about storage in one common storage facility:** Not required.

• **Further information about storage conditions:** None.

• **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:**

• **Components with occupational exposure limits:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

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• **Exposure controls:**

• **Personal protective equipment**

• **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

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.

• **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:** Not applicable.

• **Penetration time of glove material:** Not applicable.

• **Eye protection:**



Goggles recommended

• **Limitation and supervision of exposure into the environment:**

Keep away from drains, surface and ground waters.

Avoid release into the environment.

* 9 Physical and Chemical Properties

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

• **General Information**

• **Appearance:**

Form: Liquid

Color: Red

• **Odour:** Characteristic

• **Odor threshold:** Not determined.

• **pH-value @ 20 °C (68 °F):** 7.3-7.5

• **Change in condition**

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

• **Flash point:** None

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

• **Ignition temperature:** Not applicable

• **Decomposition temperature:** Not determined.

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

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- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapor pressure @ 20 °C (68 °F):** ≤23 hPa (≤17.3 mm Hg)
- **Density:**
 - Relative density:** Not determined.
 - Vapor density:** Not determined.
 - Evaporation rate:** Not determined.
- **Solubility in / Miscibility with:**
 - Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
- **VOC content:** 0.00 %
- **Other information:** No further relevant information available.

* 10 Stability and Reactivity

- **Reactivity:** Avoid strong oxidizing agents.
- **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:**
 - Keep out of direct sunlight.
 - Avoid strong oxidizers.
- **Incompatible materials:** Strong oxidizing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

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

· LD/LC50 values that are relevant for classification:		
7631-99-4 Sodium Nitrate		
Oral	LD50	3,236 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rabbit)
7632-00-0 Sodium Nitrite		
Oral	LD50	175 mg/kg (Mouse) 157.9 mg/kg (Rat)
Inhalative	LC50/96 hours	0.94-1.92 mg/l (Trout)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.



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- **On the eye:** No irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic
Harmful

• **Carcinogenic categories:**

• IARC (International Agency for Research on Cancer):
None of the ingredients are listed.
• NTP (National Toxicology Program):
None of the ingredients are listed.
• OSHA-Ca (Occupational Safety & Health Administration):
None of the ingredients are listed.

12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:**
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

7631-99-4 Sodium Nitrate
EC50 6,000 mg/l (Water flea)
7632-00-0 Sodium Nitrite
EC50 12.5 mg/l (Water flea)

- **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:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

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Trade Name: **CL-090-K**
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14 Transport Information

- **UN-Number:** UN3099
- **DOT, ADR/ADN, IMDG, IATA** UN3099
- **UN proper shipping name:** Oxidizing liquid, toxic, n.o.s. (Sodium nitrite)
- **DOT** UN3099 Oxidizing liquid, toxic, n.o.s. (Sodium nitrite)
- **ADR/ADN** OXIDIZING LIQUID, TOXIC, N.O.S. (SODIUM NITRITE)
- **IMDG, IATA**
- **Transport hazard class(es):**
- **DOT**



- **Class:** 5.1 Oxidizing substances
- **Label:** 5.1, 6.1

• **ADR/ADN**



- **Class:** 5.1 (OT1) Oxidizing substances
- **Label:** 5.1+6.1

• **IMDG**



- **Class:** 5.1 Oxidizing substances
- **Label:** 5.1/6.1

• **IATA**



- **Class:** 5.1 Oxidizing substances
- **Label:** 5.1 (6.1)
- **Packing group:** II
- **DOT, ADR/ADN, IMDG, IATA** II
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Warning: Oxidizing substances
- **Danger code (Kemler):** -
- **EMS Number:** F-A,S-Q

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- **Stowage Category** B
 - **Segregation Code** SG38 Stow "separated from" ammonium compounds.
SG49 Stow "separated from" cyanides
SG60 Stow "separated from" peroxides
 - **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
 - **Transport/Additional information:**
 - **DOT**
 - **Quantity limitations:** On passenger aircraft/rail: 1 L
On cargo aircraft only: 5 L
-
- **ADR/ADN**
 - **Excepted quantities (EQ):** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
-
- **IMDG**
 - **Limited quantities (LQ):** 1L
 - **Excepted quantities (EQ):** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
 - **UN "Model Regulation":** UN 3099 OXIDIZING LIQUID, TOXIC, N.O.S. (SODIUM NITRITE), 5.1 (6.1), II

15 Regulatory Information

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

• Section 355 (extremely hazardous substances):	None of the ingredients are listed.
• Section 313 (Specific toxic chemical listings):	7632-00-0 Sodium Nitrite
• TSCA (Toxic Substances Control Act):	All ingredients are listed or exempt from listing.
• California Proposition 65:	
• Chemicals known to cause cancer:	None of the ingredients are listed.
• Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed.
• Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed.
• Chemicals known to cause developmental toxicity:	None of the ingredients are listed.
• New Jersey Right-to-Know List:	7632-00-0 Sodium Nitrite

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• New Jersey Special Hazardous Substance List:	
None of the ingredients are listed.	
• Pennsylvania Right-to-Know List:	
7631-99-4	Sodium Nitrate
7632-00-0	Sodium Nitrite
• Pennsylvania Special Hazardous Substance List:	
7632-00-0	Sodium Nitrite
	E
• Carcinogenic categories:	
• EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
• TLV (Threshold Limit Value established by ACGIH):	
None of the ingredients are listed.	
• NIOSH-Ca (National Institute for Occupational Safety and Health):	
None of the ingredients are listed.	

• GHS label elements

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

• Hazard pictograms:



GHS03 GHS06

• Signal word: Danger

• Hazard-determining components of labeling:

Sodium Nitrite

• Hazard statements:

- H272 May intensify fire; oxidizer.
- H301 Toxic if swallowed.
- H332 Harmful if inhaled.
- H401 Toxic to aquatic life.

• Precautionary statements:

- P210 Keep away from heat.
- P220 Keep/Store away from clothing/combustible materials.
- P221 Take any precaution to avoid mixing with combustibles.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P330 Rinse mouth.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a poison center/doctor if you feel unwell.



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P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• 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: 06/10/2018 / 1

• 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
- Ox. Liq. 3: Oxidizing liquids – Category 3
- Ox. Sol. 3: Oxidizing solids – Category 3
- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

• * Data compared to the previous version altered.

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