

Safety Data Sheet

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(English US)

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Name: Nu-Well Chlor-Boost
Product Code: NW-410
Synonyms: Chlorine Enhancer
Product Form: Liquid, mixture
Chemical Family: Buffered acid and surfactant solution.

1.2 Intended Use of the Product

Use of the substance: Solution to enhance chlorine during disinfection activity; used at a rate of 0.1 to 0.5% by volume based on the alkalinity and chlorine usage.

Use of the substance: For professional use only

1.3 Contact Information of the Manufacturer

Johnson Screens / Aqseptence Group
1950 Old Highway 8 NW
New Brighton, MN 55112
USA
Telephone: +1-651-636-3900
<http://www.johnsonscreens.com/>

1.4 Emergency Telephone Number

Emergency Number: +1-800-262-8200 USA
+1-703-741-5500 International
CHEMTREC

SECTION 2: HAZARDOUS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Skin Irrit. 2 H315
Eye Irrit. 2A H319

Full text of H-phrases: see Section 16

2.2. Label Elements

GHS-US Labelling

Hazard Pictograms (GHS-US):



Signal Word (GHS-US): Warning

Hazard Statements:
(GHS-US) H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Precautionary Statements:
(GHS-US) P234 - Keep in original container.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 - Immediately call a POISON CONTROL CENTER, or a doctor.
 P321 - Specific treatment (see Section 4 on this SDS).
 P363 - Wash contaminated clothing before reuse.
 P390 - Absorb spillage to prevent material damage.
 P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. If involved in a fire and thermal decomposition occurs; toxic and acrid vapors may be released.

2.4 Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: Not Applicable

3.2 Mixture

Name	Product Identifier	Percentage	Classification (GHS-US)
Organic acid blend	CAS No. 26099-09-2	Proprietary	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation: mist), H332 Skin Corr. 1B, H315 Eye Dam. 1, H319
Water	CAS No. 7732-18-5	Proprietary	Not classified
Proprietary surfactant mixture	Proprietary	Proprietary	Not classified
Proprietary dispersant polymer	Proprietary	Proprietary	Not classified

Note: If Chemical Name/CAS No. is "proprietary" and/or weight percentage is not listed, the specific chemical identity and/or percentage of composition has been withheld as a trade secret in accordance with CFR §1910.1200.

See Section 16 for the full text of H-phrases.

3.3 PFAS, PFOS, PFC Statement

There are no Perfluorooctanoic Acid (PFOA), Perfluorooctyl Sulfonate (PFOS) or Other Perfluorinated Chemicals (PFCs) in the NW-410 product.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

First-aid Measures after Inhalation: Keep at rest and in a position comfortable for breathing. Seek medical attention. Symptoms may be delayed.

First-aid Measures after Skin Contact: Remove/Take off immediately all contaminated clothing. Immediately flush skin with plenty of water and mild soap for at least 30 minutes. Seek medical advice/attention. Wash contaminated clothing before reuse.

First-aid Measures after Eye Contact: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing for at least 30 minutes. Immediately call a POISON CENTER or doctor/physician.

First-aid Measures after Ingestion: Rinse mouth thoroughly with water. Do NOT induce vomiting. Seek medical attention immediately.

4.2 Most Important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes mild skin irritation and possible severe eye irritation.

Symptoms/Injuries after Inhalation: Inhalation may cause immediate severe irritation progressing quickly to chemical burns. Corrosive to mucus membranes. Corrosive to the respiratory tract. Symptoms may be delayed.

Symptoms/Injuries after Skin Contact: Causes mild skin irritation.

Symptoms/Injuries after Eye Contact: Causes serious eye irritation.

Symptoms/Injuries after Ingestion: May cause irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion of a large quantity of this material could result in serious health hazard.

Chronic Symptoms: None expected under normal conditions of use.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread product.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Reacts with (strong) oxidizers: (increased) risk of fire.

5.3. Advice for Firefighters Precautionary Measures Fire:

Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Keep upwind. Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: evacuate area. Fight fire remotely due to risk.

Protection During Firefighting: Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines. Be aware that burning liquid will float on water. Notify appropriate authorities if liquid enter sewers or waterways.

Other Information: Do not allow the product to be released into the environment. Do not allow run-off from fire fighting to enter drains or water sources.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all unnecessary exposure. Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist, or spray.

6.1.1 For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Keep upwind.

6.1.2 For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

6.2 Environmental Precautions

Avoid unnecessary release into the environment. Notify authorities if undiluted product enters sewers or public waters.

6.3 Methods and Material for Containment and Cleaning Up For Containment:

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Ventilate area. Clean up spills immediately and dispose of waste safely. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Collect absorbed material and place into a sealed, labeled container for proper disposal. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

6.4 Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Additional Hazards When Processed: Any proposed use of this product in an elevated temperature process should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink, or smoke in areas where product is used.

Storage Conditions: Store in a dry, cool, and well-ventilated area. Keep container closed when not in use. Store away from oxidizers and caustic products. Storage areas should be periodically checked for damage and integrity.

Incompatible Products: Strong oxidizers. Strong bases.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Observe all regulations and local requirements regarding storage of containers. Container remains hazardous when empty, unless properly cleaned. Continue to observe all precautions. Containers and equipment used to handle this product should be exclusively for this material.

7.3 Specific End Use(s)

Solution to enhance chlorine during disinfection activity; used at a rate of 0.1 to 0.5% by volume based on the alkalinity and chlorine usage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

For substances listed in Section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

8.2 Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountain should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilations, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Face shield. Protective goggles. Protective clothing. Gloves.
Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing:	Chemically resistant materials and fabrics.
Hand Protection:	Impermeable protective gloves.
Eye Protection:	Chemical safety goggles.
Skin and Body Protection:	Wear suitable protective clothing.
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
Environmental Exposure Controls:	Avoid release to the environment.
Consumer Exposure Controls:	Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State:	Liquid	Appearance:	Clear, light amber
Odor:	Slight chemical odor	Solubility:	Water (complete)
pH:	2.8	Specific Gravity:	1.12
Boiling point:	112 °C (233.6°F)	Freezing point:	0 °C (32 °F) – clouding will occur
Vapor Density:	1.0 (water)	Vapor pressure:	Vapor is water
Auto Ignition Temp:	Non-detect (none)		

9.2 **Other Information** No additional information

SECTION 10: STABILITY AND REACTIVITY

10.1 **Reactivity:** Reacts with (strong) oxidizers. Hazardous reactions will not occur under normal conditions.

10.2 **Chemical Stability:** Stable under recommended handling and storage conditions (see Section 7).

10.3 **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

10.4 **Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, open flames, sources of ignition and incompatible materials.

10.1 **Incompatible Materials:** Strong oxidizers.

10.2 **Hazardous Decomposition Products:** Carbon oxides (CO, CO₂), oxides of nitrogen, oxides of sulfur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity: Not Classified.

LD50 Oral Rat: >5000 mg/kg

LC50 Inhalation Rat: 20 mg/l/4h

Skin Contact – Acute: Dermal LD50 Rabbits > 3000 mg/kg

Skin Contact – Chronic: Skin irritation Rabbits (Draize Score 1.6 / 8)

Eye Contact – Acute: Minimal Rabbits (Draize score 2.7 / 110)

Skin Corrosion/Irritation: May cause irritation to skin and serious eye irritation or damage. pH: 2.8

Serious Eye Damage/Irritation: May cause serious eye irritation or damage. pH: 2.8

Respiratory or Skin Sensitization: Not Classified.

Germ Cell Mutagenicity: Not Classified.

Carcinogenicity: Not Classified.

Reproductive Toxicity: Not Classified.

Specific Target Organ Toxicity (single exposure): Not Classified.

Specific Target Organ Toxicity (repeated exposure): Not Classified.

Aspiration Hazard: Not Classified.

Symptoms/Injuries after Inhalation: Inhalation of mist may cause severe irritation to lungs and nasal passages progressing to chemical burns with prolonged exposure. Mildly corrosive to mucus membranes and respiratory tract. Symptoms may be delayed.

Symptoms/Injuries after Skin Contact: May cause skin irritation. Prolonged exposure could result in more severe irritation or chemical burns.

Symptoms/Injuries after Eye Contact: May cause serious eye damage if not rinsed immediately.

Symptoms/Injuries after Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Swallowing a large quantity of this material may pose a serious health hazard.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – General: This material is hazardous to the aquatic environment in large quantities. Keep out of sewers and waterways unless neutralized and/or diluted.

Ecology – Water: This material is hazardous to the aquatic environment in large quantities. Keep out of sewers and waterways unless neutralized and/or diluted.

LC50 Bluegill: 250 mg/l

EC50 Daphnia 1: 44 mg/l

12.2 Persistence and Degradability

BOD (5) 1.0% solution: 7950 mg O₂/L

BOD (5) 0.1% solution: 725 mg O₂/L

Total Organic Carbon: 15.2%

12.3 Bioaccumulation Potential: Non-bioaccumulating

12.4 Mobility in Soil: Undiluted product is slightly viscous and has limited mobility in soils.

12.5 Other Adverse Effects: Avoid release of undiluted product into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Sewage Disposal Recommendations: Diluted product will not disrupt waste water treatment. Do not empty into drains; dispose of this material and its container in a safe way.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 In Accordance with DOT

Not regulated as a hazardous material by the US Dept. of Transportation (DOT) 49CFR 172.101 Hazardous Materials Table

Proper Shipping Name: COMPOUND, LIQUID, CLEANING, CORROSIVE, POLYMALAEIC ACID BLEND

Hazard Class: Non-Hazardous

Identification Number: UN/NA1760

Label Codes: None Required

Packing Group: II

ERG Number: 154

14.2 In Accordance with IMDG

Proper Shipping Name: COMPOUND, LIQUID, CLEANING, CORROSIVE, POLYMALAEIC ACID BLEND

Hazard Class: Non-Hazardous

Identification Number: UN/NA1760

Packing Group: II

Label Codes: None Required

EmS-No. (Fire): F-A

EmS-No. (Spillage): S-B

14.3 In Accordance with IATA

Proper Shipping Name: COMPOUND, LIQUID, CLEANING, CORROSIVE, POLYMALAEIC ACID BLEND

Packing Group: II

Identification Number: UN/NA1760

Hazard Class: Non-Hazardous

Label Codes: None Required

ERG Code (IATA): 8L

14.4 In Accordance Canadian TDG

Proper Shipping Name: COMPOUND, LIQUID, CLEANING, CORROSIVE, POLYMALAEIC ACID BLEND

Hazard Class: Non-Hazardous

Label Codes: None Required

Reportable Quantity: None

SECTION 15: REGULATORY INFORMATION

15.1 RCRA Status: Not a hazardous waste under RCRA 40 CFR 261. No reportable quantities.

15.2 SARA/TITLE III-CERCLA List: This product does not contain a "CERCLA" listed hazardous substance for emergency release notification under Sec. 304 (40CFR 302).

15.3 SARA/TITLE III-Toxic Chemicals List: This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Sec. 313 (40CFR 372).

15.4 TSCA Inventory Status: Chemical components listed on TSCA Inventory.

15.5 California Proposition 65: This product does not contain any chemicals currently on the California list of known carcinogens and reproductive toxins.

15.6 Canadian WHMIS Classification: This product does not contain any hazardous materials under CPR and this MSDS discloses all information elements required by the CPR.

15.7 NSF Standard 60: Certified for use in potable water well cleaning and pipe line cleaning.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Issue: 01/10/2002

Revision Date: 01/15/2022 Version: 8.3 (English US)

HS Tariff Classification Number: 3402.90.5030 preference criterion A

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Inhalation: mist)	Acute toxicity (inhalation: mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

Disclaimer The information contained in this SDS was compiled using the latest and most reliable information available at the time of printing. The information contained herein is based on data considered accurate and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed or relied upon as guaranteeing any **specific** property of the product, and, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the user thereof.