Safety Data Sheet

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(English US)

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Name: Nu-Well Descale Heavy
Product Code: NW-130
Synonyms: Nu-Well 130, Hydrochloric Acid 20º Baume (31.5% strength), Muriatic Acid
Product Form: Liquid
Chemical Family: Mineral acid

1.2 Intended Use of the Product

Use of the substance: Liquid mineral acid used to clean waterborne deposits.
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. Physical Hazards

Corrosive to metals **Category 1**
Acute toxicity, oral **Category 4**
Classification (GHS-US)
Skin Irrit. 1A H314
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): Danger

Hazard Statements: (GHS-US)
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage/eye irritation.

Precautionary Statements:
(GHS-US)

P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
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.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards not classified (HNOC)

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

2.4 Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSISTION/INFORMATION ON INGREDIENTS

3.1 Substance: Not Applicable

3.2 Mixture

Name	Product Identifier	Percentage	Classification (GHS-US)
Hydrochloric Acid	CAS No. 7647-01-0	31.5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318
Water	CAS No. 7732-18-5	Proprietary	Not classified
Other components below reportable limits	N/A	Proprietary	Not classified

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-130 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: Move to fresh air. Call a physician if symptoms develop or persist.

First-aid Measures after Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center Immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

First-aid Measures after Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

First-aid Measures after Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2 Most Important symptoms and effects, both acute and delayed

Symptoms/Injuries after Skin Contact: Burning pain and severe corrosive skin damage.

Symptoms/Injuries after Eye Contact: Causes serious eye damage. Symptoms may include stinging, tearing redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Chronic Symptoms: None expected under normal conditions of use.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder, Carbon dioxide (CO2).

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: During fire, gases hazardous to health may be formed.

Explosion Hazard: Product is not explosive.

Reactivity: Reacts with (strong) oxidizers: (increased) risk of fire. Contact with metals may evolve flammable hydrogen gas.

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. Move containers from fire area if you can do so without 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: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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:

Stop the flow of material, if this is possible without risk. 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. Following product recovery, flush area with water. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

6.4 Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see Section 13.

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 used to enhance acid cleaning activity; use at a rate of 0.5 to 8.0% of the cleaning solution; for professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Occupational Exposure Limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) US.

Components	Type	Value
HYDROCHLORIC ACID, (CAS 7647-01-0)	Ceiling	7 mg/m3 5 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
HYDROCHLORIC ACID, (CAS 7647-01-0)	Ceiling	2 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
HYDROCHLORIC ACID, (CAS 7647-01-0)	Ceiling	7 mg/m3 5 ppm

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: Corrosion proof materials and fabrics.

Hand Protection: Impermeable protective gloves.

Eye Protection: A full face shield is recommended. Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use a NIOSH approved respirator or self-contained-breathing-apparatus whenever exposure may exceed established Occupational Exposure Limits.

Environmental Exposure Controls: Do not allow the product to be released into 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	Odor:	Pungent, chemical odor
Appearance:	Colorless to slight yellow		
pH:	0.25-0.50	Specific Gravity:	1.160

Boiling point:	41.71 °C (107.08 °F)	Freezing point:	-52.8 °C (-63 °F)
Vapor Density:	1.0 (water)	Vapor pressure:	Vapor is water
Solubility:	100% in Water (complete)		

9.2 **Other Information:** No additional information

Density:	9.68 lbs./gal.
Percent volatile:	68.5% estimated

SECTION 10: STABILITY AND REACTIVITY

10.1 **Reactivity:** Reacts with (strong) oxidizers: increased risk of fire. Undiluted products contact with metals may evolve release small quantities of hydrogen gas.

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.

10.5 **Incompatible Materials:** Strong oxidizers. Strong bases.

10.6 **Hazardous Decomposition Products:** Acrid smoke and irritating fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 **Information on Toxicological Effects**

Acute Toxicity: Harmful if swallowed.

LD50 Oral Rat: 900 mg/kg

LC50 Inhalation Rat: 3124 ppm, 1 hour

LC50 Inhalation Mouse: 1108 ppm, 1 hour

Skin Contact – Acute: Dermal LD50 Mouse 1449 mg/kg

Skin Contact – Chronic:

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: Not a respiratory sensitizer. This product is not expected to cause skin sensitization.

Germ Cell Mutagenicity: No data available to indicate product or any components present at greater than 0.1 % are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity: HYDROCHLORIC ACID (CAS 7647-01-0) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

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

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

Aspiration Hazard: Not an aspiration hazard.

Chronic Symptoms: None expected under normal conditions of use. Prolonged inhalation may be harmful.

SECTION 12: ECOLOGICAL INFORMATION

12.1 **Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
HYDROCHLORIC ACID (CAS 7647-01-0)			
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	282 mg/l, 96 hours

12.2 Persistence and Degradability No data is available on the degradability of this product.
12.3 Bioaccumulation Potential: No data available.
12.4 Mobility in Soil: No data available.
12.5 Other Adverse Effects: No adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Disposal Recommendations: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

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

UN Number: UN1789
UN Proper Shipping Name: HYDROCHLORIC ACID
Transport Hazard Class:
Class: 8
Subsidiary Risk: -
Packing Group: III
ERG Number: 157
DOT

14.2 In Accordance with IMDG

IMDG Regulated Marine Pollutant

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
15.2 SARA 304 Emergency Release Notification: HYDROCHLORIC ACID (CAS 7647-01-0) 5000 LBS
15.3 CERCLA Hazardous Substance List (40 CFR 302.4): HYDROCHLORIC ACID (CAS 7647-01-0) 5000 LBS
15.4 TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not Regulated
15.5 OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not Listed
15.6 Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: HYDROCHLORIC ACID (CAS 7647-01-0)
15.7 Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): HYDROCHLORIC ACID (CAS 7647-01-0)
15.8 Safe Drinking Water Act (SDWA): Not Regulated
15.9 Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number: HYDROCHLORIC ACID (CAS 7647-01-0) 6545

15.10 Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)): HYDROCHLORIC ACID (CAS 7647-01-0) 20% WV

15.11 DEA Exempt Chemical Mixtures Code Number: HYDROCHLORIC ACID (CAS 7647-01-0) 6545

15.12 Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard – Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance:

Chemical name	CAS number	Reportable Quantity	Threshold planning	Threshold planning quantity LV	Threshold planning quantity UV
HYDROCHLORIC ACID	7647-01-0	5000	500lbs		

SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting):

Chemical name	CAS number	% by Wt.
HYDROCHLORIC ACID	7647-01-0	31.5

15.13 US State Regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) HYDROCHLORIC ACID (CAS 7647-01-0)

US. Massachusetts RTK - Substance List HYDROCHLORIC ACID (CAS 7647-01-0)

US. New Jersey Worker and Community Right-to-Know Act HYDROCHLORIC ACID (CAS 7647-01-0)

US. Pennsylvania Worker and Community Right-to-Know Law HYDROCHLORIC ACID (CAS 7647-01-0)

US. Rhode Island RTK HYDROCHLORIC ACID (CAS 7647-01-0)

US. California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

15.14 International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (I ECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s); A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Date of Issue: 06/01/2020
Revision Date: 01/15/2022 Version: 1.2 (English US)

HS Tariff Classification Number: HS Code 28061000 - Hydrogen, chloride, hydrochloric
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

HMIS® ratings Health: 3
Flammability: 0
Physical hazard: 0

NFPA ratings Health: 3
Flammability: 0
Instability: 0

GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage