



Safety Data Sheet (SDS)

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

Issue date 09/28/2023

Reviewed on 09/28/2023

1 Identification

Product Identifier

- **Trade name:** QA® Concentrated Solution
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Disinfectant/Food-Contact Sanitizer. This product is intended to be diluted prior to use. For further information refer to the EPA Registered product label. Uses other than those identified are not recommended.
- **Application of the substance / the mixture:** Industry Specific Application
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
National Chemicals, Inc.
PO Box 506, Lewiston, MN 55952
Ph: 800-533- 0027 / 507-454- 5640
info@NationalChemicals.com
- **Emergency telephone number:** CHEMTREC 1-800- 424-9300

* 2 Hazard(s) Identification

Classification of the substance or mixture:



Skin Corrosion	1B
Eye Damage	1
Acute Toxicity (oral):	4
Acute Toxicity (dermal)	4

Label elements:

GHS label elements

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

Hazard pictograms:



Signal word: Danger

Hazard statements:

- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H314 Causes severe skin burns and eye damage

Precautionary statements:

- P102 Keep out of reach of children.
- P262 Do not get in eyes, on skin, or on clothing
- P264 Wash affected areas thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P280 Wear protective gloves and eye, face and foot protection
- P301+312+330+331 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

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- P304+P340 IF INHALED: Remove victim 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 CENTER or doctor/physician
- P363 Wash contaminated clothing before reuse
- P233 Keep container tightly closed
- P234 Keep only in original container
- P501 Dispose of contents and container to an approved waste disposal plant

· **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: 68391-01-5	Alkyl (C ₁₂₋₁₈) dimethylbenzyl ammonium chloride	10-25%
	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 3, H301	
CAS: 85409-23-0	Alkyl (C ₁₂₋₁₄) dimethylethylbenzyl ammonium chloride	10-25%
	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 3, H301	

· **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:**

Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.

· **After inhalation:**

Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

· **After skin contact:**

Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.

· **After eye contact:**

Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.

· **After swallowing:**

Do NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Rinse mouth with water. Seek medical attention.



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- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.
- **Indication of any immediate medical attention and special treatment needed:**
Note to physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

5 Fire-Fighting Measures

- **Extinguishing media:**
- **Suitable extinguishing agents:**
The product is not flammable. Use media suitable for the material that is burning
- **Special hazards arising from the substance or mixture:**
Container may rupture on heating. May include carbon oxides, nitrogen oxides.
- **Advice for firefighters:** No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking.
- **Protective equipment:**
Mouth respiratory protective device.
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:**
Spill area may be slippery. Wear appropriate protective equipment (See Section 8).
- **Environmental precautions:**
Avoid contact of spilled material and runoff with soil and surface waterways
- **Methods and material for containment and cleaning up:**
Recovery: Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a nonmetal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread.
Keep in suitable, properly labeled, closed containers for disposal.
Decontamination/cleaning: Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly.
Recover the cleaning water for subsequent disposal.
Disposal: Dispose of in accordance with local regulations
Additional advice: Spill area may be slippery
- **Reference to other sections:**
No information available

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**
Technical measures: Does not require any specific or particular measures
Advice on safe handling and usage: Wear appropriate protective equipment including long chemical resistant gloves, chemical splash goggles and protective footwear. Handle in accordance with good industrial hygiene and safety practice. Do not spray toward face. Wash affected areas after use. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

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- **Conditions for safe storage, including any incompatibilities:**

Technical measures for storage: Does not require any specific or particular measures

Storage class (TRGS 510): Non-combustible, corrosive materials

- **Storage**

Recommended: Keep container tightly closed. Opened containers must be carefully resealed and kept upright to prevent leakage.

Incompatible products: Hazardous reactions may occur on contact with certain chemicals. Refer to the list of incompatible materials section 10: "Incompatible materials"

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:**

Not reportable

- **Exposure controls:**

- **Personal protective equipment:**

Respiratory Protection: In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Hand Protection: Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye Protection: Wear chemical splash goggles.

Skin and Body Protection: Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.

- **General protective and hygienic measures:**

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use.

The protective equipment must be selected in accordance with current local standards and in following proper use instructions from the supplier of the protective equipment.

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

9 Physical and Chemical Properties

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

- **General Information**

- **Appearance:**

Form:

Liquid

Color:

Yellow

- **Odor:**

Characteristic Odor

- **Odor threshold:**

Not determined

- **pH-value:**

6-8

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- **Change in condition**
 - Melting point/Melting range:** Not determined
 - Boiling point/Boiling range:** >100 °C (212 °F)
 - Freezing point:** Not determined
- **Flash point:** None
- **Flammability (solid, gaseous):** Not applicable
- **Ignition temperature:** Not determined
- **Decomposition temperature:** Not determined
- **Auto igniting:** Not determined
- **Danger of explosion:** Not determined
- **Explosion limits:**
 - Lower:** Not determined
 - Upper:** Not determined
- **Vapor pressure:** Not determined
- **Density:** 1.00 g/ml, 8.3 lbs/gal (25°C)
- **Vapor density:** Not determined
- **Evaporation rate:** Not determined
- **Solubility in Water:** Soluble
- **Partition coefficient (n-octanol/water):** Not determined
- **Viscosity:**
 - Dynamic:** Not determined
 - Kinematic:** Not determined
- **Oxidizing Properties:** Not determined
- **Other information:** No further relevant information available

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable and non-reactive under normal conditions of use, storage and transport.
- **Possibility of hazardous reactions:** No further relevant information available.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Anionic surfactants
- **Hazardous decomposition products:** Oxides of carbon and nitrogen

11 Toxicological Information

· **Product Summary:**

Causes severe skin burns and serious eye damage. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly digestive tract. Vapors and spray mist may irritate throat and respiratory system and cause coughing.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

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

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

Oral	LD50	>2,500 mg/kg
Dermal	LD50	>2,000 mg/kg

· **Primary irritant effect:**

- **Skin:** Corrosive. Causes severe burns. Symptoms may include burns, blisters, redness and pain (which may be delayed).
- **Eye:** Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.
- **Ingestion:** Harmful if swallowed. Causes burns/serious damage to mouth, throat and stomach. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.
- **Inhalation:** May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.
- **Sensitization:** No known effects
- **Carcinogenic categories:** This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH
- **Mutagenicity:** No information available
- **Toxicity for reproduction and development:** No information available
- **Specific Target Organ Toxicity (STOT)**
STOT-single exposure: No information available
STOT-repeated exposure: No information available
- **Aspiration toxicity:** No information available

12 Ecological Information

- **Aquatic Toxicity:** Toxic to aquatic life.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No bioaccumulation is to be expected.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **Results of PBT and vPvB assessment:** No information available
- **Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13 Disposal Considerations

- **Waste treatment methods:**
- **Pesticide Disposal:**
Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental control agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.
- **Product Disposal:** Observe all applicable federal, state, and local regulations
- **Packaging:** Discard empty container in trash or offer for recycling.

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14 Transport Information

- **UN-Number:** 1903
- **UN proper shipping name:** DISINFECTANTS, LIQUID, CORROSIVE, N.O.S. (QUATERNARY AMMONIUM COMPOUND)
- **Transport hazard class(es):** 8
- **Packing group (if applicable):** III
- **Transport/Additional information:**

DOT

- **Quantity limitations:** On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L

IMDG

- **Limited quantities (LQ):** 5 L
- **Excepted quantities (EQ):** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **Notification status:** Not applicable
- **OSHA Hazard Communication Standard (26 CFR 1910.1200):** Hazardous
- **SARA (Superfund Amendments and Reauthorization):**
- **Section 302/304 (extremely hazardous substances):** Not listed
- **Section 311/312 (hazard categories):**
 - Fire: No
 - Reactive: No
 - Acute health hazard: No
 - Chronic health hazard: No
- **Section 313 (Specific toxic chemical listings):** Not listed
- **CERCLA (RQ):** Not listed
- **CAA (311) Volatile Organic Compounds:** Not listed
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



- **Signal word:** Danger
- **Hazard statements:**
 - H302 Harmful if swallowed
 - H312 Harmful in contact with skin
 - H314 Causes severe skin burns and eye damage
- **Precautionary statements:**
 - P102 Keep out of reach of children.
 - P262 Do not get in eyes, on skin, or on clothing

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P264 Wash affected areas thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves and eye, face and foot protection
P301+312+330+331 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water
P304+P340 IF INHALED: Remove victim 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 CENTER or doctor/physician
P363 Wash contaminated clothing before reuse
P233 Keep container tightly closed
P234 Keep only in original container
P501 Dispose of contents and container to an approved waste disposal plant

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:** 09/28/2023 / 2

• **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) 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
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3