

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name **Cecure 40% Concentrate**

Other means of identification

Product Code

Recommended use of the chemical and restrictions on use

Recommended Use Antimicrobial food processing aid solution

Uses advised against

Details of the supplier of the safety data sheet

Manufacturer Address

Safe Foods Chemical Innovations

1501 E. 8th Street

North Little Rock, AR 72114

Emergency telephone number

Company Phone Number

501-758-8500

Emergency Telephone

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Hazardous to the aquatic environment, short-term – Acute	Category 1

Label elements

Emergency Overview

Danger

Hazard statements
 Harmful if swallowed.
 Causes skin irritation.
 Causes serious eye damage.
 Very toxic to aquatic life.



Precautionary Statements – Prevention

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash hands thoroughly after handling.
- Do not eat, drink, or smoke when using this product.
- Avoid release to the environment.
- Wear protective gloves/clothing/eye/face protection.
- In case of inadequate ventilation wear respiratory protection.

Precautionary Statements – Response

- Call a POISON CENTER/doctor/physician if you feel unwell.
- Wash contaminated clothing before reuse.
- IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary Statements – Storage

- Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements – Disposal

- Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Hazards not otherwise classified (HNOC)

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	weight-%
Propylene glycol	57-55-6	trade secret
Cetylpyridinium chloride, monohydrate	6004-24-6	1-44

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Eye contact	Immediately flush eyes with water, while lifting the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek prompt medical attention if irritation develops or persists.
Skin contact	Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Seek medical attention if irritation develops or persists. Wash clothing and shoes separately before reuse.
Inhalation	Move the exposed person to fresh air at once. If breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If not breathing, properly trained personnel may assist affected person by performing artificial respiration. Seek prompt medical attention.
Ingestion	Do not induce vomiting unless instructed by a physician. Give several large glasses of milk, or water if not available. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave individual unattended.

Most important symptoms and effects, both acute and delayed

Symptoms See section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians 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. No specific antidote available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemicals. Foam (alcohol or universal). Water spray.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Emits toxic or corrosive vapors under fire conditions. Product will not burn unless dried out.

Protective equipment and precautions for firefighters

Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of the SDS.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

For emergency responders

Environmental precautions

Environmental precautions

Methods and material for containment and cleaning up

Small spill	Absorb liquid on vermiculite, floor absorbent or other absorbent inert material (e.g. dry sand, earth). Place in appropriate chemical waste container.
Large spill	Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Retain all contaminated water for removal and treatment.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor, mist or dust. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in tightly closed containers. Store in an area that is dry, well-ventilated, away from ignition sources, away from incompatible materials (see Section 10).

Incompatible materials Do not store with, or close to oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Propylene glycol 57-55-6	TWA: 10 mg/m ³ (mist)	-	-

Appropriate engineering controls

Engineering Controls

Not required under normal conditions of use. However, if unusual operating conditions exist, then provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/TLV(s).

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses in compliance with OSHA regulations.

Skin and body protection

Wear resistant gloves such as: neoprene or polyvinyl chloride gloves.

Respiratory protection

Not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Homogenous solution

Appearance

Clear liquid

Odor

Mild organic

Color

Colorless to light yellow

Odor threshold

No information available.

Property

Values

Remarks • Method

pH

6-8

1% in DI water

Melting point / freezing point

No information available.

Boiling point / boiling range

No information available.

Flash point

No information available.

Evaporation rate

No information available.

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit:

Lower flammability limit:

Vapor pressure

No information available.

Specific Vapor density

No information available.

Specific Gravity

8.21 lbs/gal @ 77 °F

Liquid Density

Water solubility

Soluble

Solubility in other solvents

Partition coefficient

Autoignition temperature

Decomposition temperature

Kinematic viscosity

No information available.

Dynamic viscosity

No information available.

Explosive properties

Oxidizing properties

VOC Content (%)

No information available.

10. STABILITY AND REACTIVITY

Reactivity

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Conditions to avoid

Avoid contact with open flames and incompatible materials.

Incompatible materials

Avoid strong oxidizing agents, acids, acid anhydrides, and acid chlorides.

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition Products

Carbon monoxide, nitrogen oxides, and hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Acute Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Cetylpyridinium chloride, monohydrate 6004-24-6	125-680 mg/kg (Rats, mice, rabbits)	-	0.09 mg/L (4 hr – Rat)

Information on toxicological effects**Irritation/Corrosion**

Severe eye and skin irritant.
Does not cause dermal sensitization (skin rash).

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Sensitization**

Not available.

Germ cell mutagenicity

Mutagenicity tests indicate that this chemical is not mutagenic.

Carcinogenicity

Not available.

Reproductive toxicity

Does not cause reproductive toxicity or express anti-fertility activity.

Specific Target Organ Toxicity (STOT) - single exposure

Chemical Name	Category	Route of exposure	Target organs
Cetylpyridinium chloride, monohydrate 6004-24-6	Category 3	Inhalation	Respiratory tract irritation

STOT - repeated exposure

Not available.

Aspiration hazard

Not available.

Potential chronic health effects

A developmental toxicity test in rats found no treatment-related anomalies.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Cetylpyridinium chloride 6004-24-6 **	EC50 (72h) Pseudokirchneriella subcapitata (algae) = 26.9 µg/L NOEC (72-hr) Selenastrum capricornutum (algae) = 9.3 µg/L	LC50 (96h) Oncorhynchus mykiss (rainbow trout) = 0.16 mg/L NOEC (96-hr) Oncorhynchus mykiss (rainbow trout) = 0.11 mg/L	EC50 (48h) Daphnia magna = 9.18 µg/L NOEC (48-hr) Daphnia magna = 3.2 µg/L
** EC50 (3h) Activated Sludge = 20.7 mg/L			
Propylene glycol 57-55-6	EC50 (96h) Pseudokirchneriella subcapitata = 19000 mg/L	LC50 (96h) Oncorhynchus mykiss (rainbow trout) = 51600 mg/L	EC50 (24h) Daphnia magna = 10000 mg/L EC50 (48h) Daphnia magna = 1000 mg/L

Persistence and degradability

25% Primary degradation after 28 days in OECD 301D closed bottle test. Does not biodegrade readily.

Bioaccumulation

An estimated BCF of 5.7, based on a measured Log Kow of 1.71, suggests the potential for bioconcentration in aquatic organisms is low.

Mobility in soil

No information available.

Other adverse effects

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods**Disposal of wastes**

Dispose in accordance with all applicable local, state, and federal regulations.

Contaminated packaging

Dispose in accordance with all applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT

Regulatory information	14.1. UN number	14.2. Proper shipping name	14.3. Classes	14.4. Packing Group	Additional information
DOT Classification	Non- Hazardous	Chemicals, n.o.s. (Cetylpyridinium Chloride in Propylene Glycol)	Not Applicable	Not Applicable	-
TDG Classification	-	Not Regulated	-	-	-

IMDG Class	UN3082	Environmentally Hazardous substance, Liquid, n.o.s., (Cetylpyridinium Chloride in Propylene Glycol)	9	III	Shipping by boat, labels required*
IATA-DGR Class	-	Not Regulated	-	-	-

14.5. Environmental Hazards:

Marine Pollutant

14.6. Special Precaution for user:

For marine transport OUTSIDE the United States the proper shipping name is: UN3082, Environmentally Hazardous substance, liquid, n.o.s., (Cetylpyridinium Chloride in Propylene Glycol), 9, PG III (Marine Pollutant).

***Labels Required:**

For marine shipping only



15. REGULATORY INFORMATION

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Other Federal Regulations

Clean Air Act, Sections : None

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Rhode Island	Massachusetts	Pennsylvania
Cetylpyridinium chloride 123-03-5	X	-	-	X
Propylene glycol 57-55-6	X	-	-	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

International Regulations

Canadian DSL/EINECS : Cetylpyridinium chloride (CAS # 123-03-5)
Propylene glycol (CAS # 57-55-6)

Canadian WHMIS : D1A and D2B

16. OTHER INFORMATION

NFPA	Health hazards	3	Flammability	1	Instability	0	Physical and Chemical Properties Corrosive Personal protection X
HMIS	Health hazards	3	Flammability	1	Physical hazards	0	

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The health hazards given on this SDS apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

End of Safety Data Sheet