Section 1. Identification

Product Identity Quat 2C-80

Other means of identification Dicocodimonium chloride; Dimethyldicocoammonium chloride; Dicocoalkyldimethylquaternary ammonium chloride compound; C8-18 dialkyldimethylammonium chloride; Quaternary ammonium compounds, di(coco alkyl)dimethyl, chlorides; Di(coco alkyl) dimethyl ammonium chloride

Relevant identified uses of the substance or mixture and uses advised against

Industrial use

Details of the supplier of the safety data sheet

Company Name

Silver Fern Chemical, Inc.
121 W. De La Guerra Street, Suite B
Santa Barbara, CA 93101 USA
info@silverfernchemical.com
Website - www.silverfernchemical.com

24-hour Emergency Telephone No.

Emergency telephone number:
Infotrac: 1-800-535-5053
Outside USA & Canada +1-352-323-3500

Customer Service: Customer Service: 1-866-282-3384

Section 2. Hazard(s) identification

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Flammable Liquid 3;H226	Flammable liquid and vapor.
Acute toxicity(oral), category 4;H302	Harmful if swallowed.
Skin corrosion/irritation category 1B;H314	Causes severe skin burns and eye damage.
Serious eye damage / eye irritation, category 1;H318	Causes serious eye damage.
Specific target organ toxicity, Single exposure category 3;H336	May cause drowsiness or dizziness.
Aquatic toxicity (acute), category 1;H400	Very toxic to aquatic life.
Aquatic toxicity (chronic), category 2;H411	Toxic to aquatic life with long lasting effects.

Label elements



Danger

H226 Flammable liquid and vapor
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

H336 May cause drowsiness and dizziness.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

[Prevention]
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking.
P260 Do not breathe dust, fume, mist, vapors or 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, eye protection, and face protection.
[Response]
P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338 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, doctor or physician.
P312 Call a POISON CENTER, doctor or physician if you feel unwell.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P363 Wash contaminated clothing before reuse.
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.
P391 Collect spillage.
[Storage]
P403+233 Store in a well ventilated place. Keep container tightly closed.
P403 Store in a well ventilated place.
P405 Store locked up.
[Disposal]
P501 Dispose of contents or container in accordance with local and national regulations.

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.
This product contains no endocrine disrupting chemicals.

Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Di(coco alkyl) dimethyl ammonium chloride **CAS Number: 61789-77-3** **Synonyms: Dicoco alkyldimethyl ammonium chlorides**	**78 - 80**	**Acute toxicity(oral), category 4;H302** **Skin corrosion/irritation category 1B;H314** **Serious eye damage / eye irritation, category 1;H318** **Aquatic toxicity (acute), category 1;H400** **Aquatic toxicity (chronic), category 2;H411** **Flammable Liquid, category 3;H226**	**No data available**
Isopropyl Alcohol **CAS Number: 67-63-0** **Synonyms: IPA, Isopropanol (2-Propanol), Propan-2-ol**	**12 - 17**	**Flammable Liquid, category 3;H226** **Serious eye damage / eye irritation, category 2;H319** **Specific target organ toxicity, Single exposure category 3;H336**	**No data available**

The actual concentration or concentration range is withheld as a trade secret.
*PBT/vPvB - PBT, vPvM or vPvB-substance.
The full texts of the phrases are shown in Section 16.

Section 4. First aid measures

Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Inhalation of mist, aerosol or vapor may cause irritation of the respiratory system with cough, sore throat, headache, chest tightness and breathing difficulty. May cause drowsiness or dizziness.

Eyes Causes severe burns and serious eye damage. Symptoms include redness, tearing, pain and blurred vision. May cause eye damage. Risk of blindness. Mist or aerosol can cause eye irritation. Rinse with plenty of clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin Causes severe skin burns. Symptoms may include redness, swelling and burning pain. Prolonged contact with unprotected skin may cause drying and cracking of the skin and dermatitis. Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion Harmful if swallowed. May cause burns to the lips, mouth, throat and gastrointestinal tract with abdominal pain, vomiting, diarrhea, shock and possible death. May cause perforation of and severe and permanent damage to the digestive tract. If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview Prolonged or repeated skin contact may cause drying and cracking of the skin, dermatitis or aggravate existing skin conditions.

Eyes Causes serious eye damage.
Skin Causes severe skin burns and eye damage.
Ingestion Harmful if swallowed.

Section 5. Fire-fighting measures

Extinguishing media

Recommended extinguishing media; Use extinguishing media such as dry chemical, carbon dioxide, alcohol-resistant foam, water spray or water fog.
Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Flammable liquid and vapor. Vapors are heavier than air and can travel along the

ground to a source of ignition and flashback. Vapors can spread along the ground and collect in low or confined areas. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking.
Do not breathe dust, fume, mist, vapors or spray.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Water contaminated by this material must be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures

listed in section 8.
Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Do not use combustible material such as sawdust. Cover drains and contain spill. Do not flush large spills down the drain. Cover spill with a large quantity of inert absorbent. Collect material and place in an approved container for proper disposal. Observe possible material restrictions
(Sections 7 and 10). Clean contaminated area with soap and water. Do not allow material or runoff from rinsing contaminated areas to enter floor drains or storm drains and ditches that lead to waterways. Dispose of material via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling
Handle containers carefully to prevent damage and spillage.
Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.
Wear all appropriate personal protective equipment specified in Section 8. Do not get in eyes or on skin or clothing. NO SMOKING. Do not breathe mist, aerosol or mist. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Wash contaminated clothing and shoes thoroughly after use.

Conditions for safe storage, including any incompatibilities
Store in a cool dry area, away from heat, sparks and open flame.
Keep containers sealed when not in use.
Store out of direct sunlight.
Transfer only to approved containers having correct labeling. Keep container tightly closed when not in use. Protect containers from physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Containers of this material are hazardous when empty as they contain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas.

Incompatible materials: Strong oxidizing agents

Specific end use(s)
No available information

Section 8. Exposure controls / personal protection

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
67-63-0	Isopropyl Alcohol	OSHA	400 ppm, 980 mg/m^3
		ACGIH	TWA: 200 ppm STEL: 400 ppm
		NIOSH	TWA 400 ppm (980 mg/m^3) STEL: 500 ppm (1225 mg/m^3)
61789-77-3	Di(coco alkyl) dimethyl ammonium chloride	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes Protective safety glasses recommended

Skin Avoid skin contact. Protective gloves recommended.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Liquid
Color	Clear colorless to pale yellow.
Odor	Alcoholic
Odor threshold	No available information
Melting point / freezing point	< -10 °C (<-22 °F)
Initial boiling point and boiling range	80 °C (176 °F)
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 2.0 %(V) Upper Explosive Limit: 12.0 %(V)
Flash Point	50 °C (122 °F)
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	6 - 9 (5% solution)
Kinematic viscosity	120 mPa.s @ 25 °C
Solubility in Water	Dispersible
Partition coefficient n-octanol/water (Log Kow)	Partition coeff: n-octanol/water
Vapor pressure (Pa)	31.7 hPa @ 50 °C
Relative Density	0.88 @ 20 °C
Vapor Density	No available information
Evaporation rate (Ether = 1)	0.3 [n-BuOAc = 1]
Oxidising properties	No available information
Explosive properties	No available information

Other information
No other relevant information.

Section 10. Stability and reactivity

Reactivity
Hazardous Polymerization will not occur.
Chemical stability
Stable under normal circumstances.
Possibility of hazardous reactions

Vapors may form explosive mixture with air.

Conditions to avoid

Avoid high temperatures and contact with incompatible material

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Thermal decomposition products may include oxides of carbon, halogenated compounds, hydrogen chloride, nitrogen oxides (NOx), toxic fumes and gases.

Section 11. Toxicological information

Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Di(coco alkyl) dimethyl ammonium chloride - (61789-77-3)	960.00, Rat - Category: 4	No data available.	No data available.	No data available.	No data available.
Isopropyl Alcohol - (67-63-0)	5,840.00, Rat - Category: NA	16,400.00, Rabbit - Category: NA	72.60, Rat - Category: NA	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
67-63-0	Isopropyl Alcohol	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 3
		ACGIH	A4
61789-77-3	Di(coco alkyl) dimethyl ammonium chloride	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	No
		ACGIH	No Established Limit

Classification	Category	Hazard Description

Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-single exposure (3)	3	May cause drowsiness or dizziness.
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry:
Inhalation, ingestion, skin contact, and skin absorption.
Symptoms and effects, both acute and delayed:
No specific symptom data available.
No chronic toxicity or long term toxicity information available. Treat symptomatically.

Inhalation May cause drowsiness or dizziness.
Eyes Causes serious eye damage.
Skin Causes severe skin burns and eye damage.
Ingestion Harmful if swallowed.

Section 12. Ecological information

Toxicity
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.
No additional information provided for this product. See Section 3 for chemical specific data.
Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Di(coco alkyl) dimethyl ammonium chloride - (61789-77-3)	0.26, Fish	No data available.	0.50, Pseudokirchneriella subcapitata
Isopropyl Alcohol - (67-63-0)	No data available.	No data available.	No data available.

Persistence and degradability
There is no data available on the preparation itself.
Bioaccumulative potential
No available information
Mobility in soil
No available information
Results of PBT and vPvB assessment
This product contains no PBT/vPvB/vPvM chemicals.
Other adverse effects
No available information

Section 13. Disposal considerations

Waste treatment methods
Observe all federal, provincial and local regulations when disposing of this substance.

Section 14. Transport information

Not regulated for packages under 1L (.3 gallons) or 1.0 kg (2.2 lbs).







	US DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN2920	UN2920	UN2920
UN proper shipping name	UN2920,Corrosive liquids, flammable, n.o.s. (Quaternary alkyl ammonium chloride, Isopropanol),8,II	Corrosive liquids, flammable, n.o.s. (Quaternary alkyl ammonium chloride, Isopropanol)	Corrosive liquids, flammable, n.o.s. (Quaternary alkyl ammonium chloride, Isopropanol)
Transport hazard class(es)	Class: 8 Sub Class: 3	Class: 8 Sub Class: 3	Class: 8 Sub Class: 3
Packing group	II	II	II

Environmental hazards

IMDG Marine Pollutant: Yes; (Di(coco alkyl) dimethyl ammonium chloride)

Special precautions for user

No available information

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
0061789-77-3	Di(coco alkyl) dimethyl ammonium chloride	Yes	UVCB	ACTIVE
0000067-63-0	Isopropyl Alcohol	Yes		ACTIVE

The following flags are used:
•Active - indicates commercial status designation of active
•E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.
•F - indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
•N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
•P - indicates a commenced Premanufacture Notice (PMN) substance.
•R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
•S - indicates a substance that is identified in a final Significant New Uses Rule.
•SP - indicates a substance that is identified in a proposed Significant New Uses Rule.
•T - indicates a substance that is the subject of a final Section 4 test rule under TSCA.
•UVCB Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials •XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
•Y1 - indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984 polymer exemption rule.
•Y2 - indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Isopropyl Alcohol

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting

under this statute.

Proposition 65 Label Warning:
This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Mass RTK Substances (>1%) :

Isopropyl Alcohol

New Jersey RTK Substances (>1%):

Isopropyl Alcohol

Pennsylvania RTK Substances (>1%):

Isopropyl Alcohol

OSHA Process Safety Management Standard Highly Hazardous Chemicals, Toxics and Reactives:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

US EPA List of Regulated Substances under the Risk Management Plan (RMP) Program:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

U.S. - DEA List II or Essential Chemicals:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

U.S. - DEA - Exempt Chemical Mixtures - List 1 and 2:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

US DHS Chemical Facility Anti-Terrorism Standards (CFATS):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

CERCLA Chemicals and RQs:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Section 16. Other information

Revision Date 13 October, 2026

DISCLAIMER OF RESPONSIBILITY
The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

The full text of the phrases appearing in section 3 is:

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H336 May cause drowsiness and dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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