

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: Quab® 342

Other means of identification

None.

Recommended restrictions

Recommended use: For industrial use Base material and intermediates

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Company Name : Quab Chemicals, Inc.
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Saddle Brook, NJ 07663
USA

Telephone : +1 201 556 0300

Fax : +1 201 556 0335

Manufacturer

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)
Emergency : +1 800 681 9531 (CHEMTREC MEXICO)
+1 703 527 3887 (CHEMTREC WORLD)
+1 973 929 8060 (Product Regulatory Services)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1

Label Elements

Hazard Symbol:



Signal Word:	Danger
Hazard Statement:	Causes skin irritation. Causes serious eye damage.
Precautionary Statements	
Prevention:	Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Immediately call a POISON CENTER/doctor.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
3-Chloro-2-hydroxypropyltrimethylododecylammonium chloride		41892-01-7	20 - <50%
2,3-Dihydroxypropyltrimethylododecylammonium chloride		103947-09-7	1 - <3%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: Aqueous Solution

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information:	Pay attention to self-protection. Remove victims from hazardous area. Immediately remove soiled or soaked clothing and remove it to a safe distance. Keep victim warm, in a stabilized position and covered. Do not leave victims unattended. If the casualty is unconscious: Place the victim in the recovery position.
Inhalation:	Potential for exposure by inhalation if aerosols or mists are generated. Move victims into fresh air. With labored breathing: Provide with oxygen. Consult a doctor. If the casualty is not breathing: Perform mouth-to-mouth resuscitation, notify emergency physician immediately.
Skin Contact:	Wash off affected area immediately with plenty of water for at least 15 minutes. If symptoms persist, consult a physician for treatment.
Eye contact:	With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Consult an ophthalmologist immediately if the symptoms persist.
Ingestion:	Rinse mouth. Immediately give large quantities of water to drink. Obtain medical attention.
Personal Protection for First-aid Responders:	In the event of fire, wear self-contained breathing apparatus.

Most important symptoms/effects, acute and delayed

Symptoms:	daze, Headache, vertigo, somnolence (sleepiness), nausea. May cause lung damage if swallowed. Health injuries may be delayed.
Hazards:	Harmful in contact with skin and if swallowed. Vapours may cause drowsiness and dizziness.

Indication of immediate medical attention and special treatment needed

Treatment:	After accidental absorption in the body, the pathology and clinical findings are dependent on the kinetics of the noxious substance (quantity of absorbed substance, the absorption time, and the effectiveness of early elimination measures (first aid)/ excretion - metabolism). Continue with first aid measures. Depending on the pathology and clinical findings, patient monitoring and symptomatic treatment are necessary.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water, mist quenching powder foam Carbon Dioxide.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical:

Danger of decomposition under influence of heat. In the case of fire, the following hazardous smoke fumes may be produced: carbon monoxide nitric oxides chlorine. Use water spray to cool unopened containers. Also keep emptied containers away from sources of heat and ignition.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:

Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities. Fire residues should be disposed of in accordance with the regulations.

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin and eyes. Wear personal protective equipment; see section 8. Do not inhale aerosol.

Methods and material for containment and cleaning up:

Absorb spill with inert material, then place in a chemical waste container.

Environmental Precautions:

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, rivers, groundwater or soil.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

Ensure adequate ventilation, especially in confined areas.

Safe handling advice:

Avoid residues of the product on the containers. The product should only be handled by trained personnel. Handle in accordance with good industrial hygiene and safety practice. Avoid formation of aerosol. Handle in accordance with good industrial hygiene and safety practice. Wear suitable protective clothing, gloves and eye/face protection.

Contact avoidance measures:

No data available.

Hygiene measures:

Avoid contact with eyes, skin, and clothing. Wash off immediately with plenty of water. Preventive skin protection is recommended. Take off clothing and shoes contaminated with product. Clean before reuse. Private clothes and working clothes should be kept separately. Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work.

Storage

Safe storage conditions:	In order to ensure due transportation, make certain that stacks are of the correct height, containers are securely fastened so as not to fall off, and labelled according to the regulations. Store in the original receptacle, keeping this tightly sealed, under cool and dry conditions. well ventilated
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate Engineering Controls	Ensure adequate ventilation, especially in confined areas.
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Individual protection measures, such as personal protective equipment

Eye/face protection:	Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).
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Skin Protection

Hand Protection:

Material: Natural rubber.
Break-through time: > 480 min
Guideline: DIN EN 374
Additional Information: Use impermeable gloves. Material: Polychloroprene with natural-latex liner.
Break-through time: > 480 min
Guideline: DIN EN 374

Skin and Body Protection:

Personal protective equipment to prevent dermal exposure is recommended. A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Respiratory Protection:

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hygiene measures:

Avoid contact with eyes, skin, and clothing. Wash off immediately with plenty of water. Preventive skin protection is recommended. Take off clothing and shoes contaminated with product. Clean before reuse. Private clothes and working clothes should be kept separately. Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work.

9. Physical and chemical properties**Appearance**

Physical state:	No data available.
Form:	liquid
Color:	colourless to yellow
Odor:	almost odourless
Odor Threshold:	No data available.
pH:	2 - 6
Melting Point:	Not applicable
Boiling Point:	Approximate 100 °C
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limit - upper (%):	Not applicable
Explosive limit - lower (%):	Not applicable
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	1 g/cm3 (20 °C)
Relative density:	No data available.
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	0.92 (calculated)
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	60 mPa.s (20 °C)

Other information

Bulk density:	
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Minimum ignition temperature:	340 °C

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Not applicable
Incompatible Materials:	alkalis
Hazardous Decomposition Products:	Hydrogen chloride. chloracetone chloromethane Hydro-cyanic acid

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product: LD 50 (Rat): 2,332 mg/kg

Dermal Product: LD 50 (Rabbit): 2,523 mg/kg

Inhalation Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Irritating. literature (Rabbit): Irritating.

Serious Eye Damage/Eye Irritation

Product: Corrosive. Rabbit: Corrosive.

Respiratory or Skin Sensitization

Product: No data available.

Components:

3-Chloro-2-hydroxypropyltrimethylodecylammonium chloride No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: Ames test (OECD 471): slightly positive

In vivo

Product: Micronucleus test (OECD 474) intraperitoneal (i.p.) ((mouse)): negative

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50 ((Brachydanio rerio), 96 h): 7.1 mg/l
NOEC ((Brachydanio rerio), 96 h): approx. 5.6 mg/l

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: 0.92 (calculated)

Mobility in soil: No data available.

Components:

3-Chloro-2-

hydroxypropyltrimethylammonium chloride

2,3-

Dihydroxypropyltrimethylammonium chloride

No data available.

No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal methods:

Waste must be disposed of in accordance with local, state, provincial and federal laws and regulations. Empty containers must be handled with care due to product residue.

Contaminated Packaging:

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities. Rinse empty containers before disposal; recommended cleaning agent: water. Offer rinsed packaging material to local recycling facilities. Dispose of containers that have not been emptied completely and/or cleaned free of substance.

14. Transport information

Domestic regulation

49 CFR

Not regulated as a dangerous good

Remarks : Not dangerous according to transport regulations.

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Skin Corrosion or Irritation, Serious eye damage or eye irritation

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPCRA (SARA Title III) Section 312 Extremely Hazardous Substances Reporting Quantities (40 CFR 355, Appendix A)

Not regulated.

Chemical Identity

Threshold Planning Quantity

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, 1,3-Dichloropropan-2-ol which is [are] known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

16. Other information, including date of preparation or last revision

HMIS Hazard ID

Health	3
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 07/29/2022

Version #: 1.2

Further Information:	Data for the production of the safety data sheet from the studies available and from the literature. Further information about the characteristics of the product can be found in the product code of practice or in the Product-Brochure .
Revision Information	Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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