



Material Safety Data Sheet

Quip makes it safe. Simply and Sensibly.

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

Manufactured by:

Quip Laboratories, Inc.
1500 Eastlawn Avenue
Wilmington, DE 19802

Non-Emergency: (302) 761-2600

CHEMICAL EMERGENCY NUMBER

CHEMTREC

1-800-424-9300

Product Name: **Anlage 7.5**
Formula: **EPA Registration No. 6836-70-46269**
Chemical Family: Quaternary Ammonium Chloride
Chemical Name: See Section 2
Product Use: Disinfectant / Sanitizer

HAZARD RATING

4-EXTREME
3-HIGH
2-MODERATE
1-SLIGHT
0-INSIGNIFICANT

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0
SPECIAL HAZARD	

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS:

INGREDIENTS:

HAZARDOUS INGREDIENTS	Approximate Weight %	TWA/TLV
N,N-Dialkyl (C8-10)-N,N- dimethylammonium Chloride (C.A.S. # 68424-95-3)	4.50%	None Established
N-Alkyl (C12-16)-N,N-dimethyl-N-benzylammonium Chloride (C.A.S. # 68424-85-1)	3.00%	None Established
Ethanol (C.A.S. #: 64-17-5)	0.9-1.5	1000 ppm (OSHA-PEL) 1000 ppm (ACGIH-TWA)
Water (C.A.S. #: 7732-18-5)	91-91.6	None Established

SECTION 3: HEALTH HAZARD IDENTIFICATION DATA:

ROUTES OF ENTRY: Eyes; Yes Skin; Yes Inhalation; Yes Ingestion; No

EFFECTS OF OVEREXPOSURE:

EYE CONTACT: Direct contact can produce severe eye damage. **Corrosive.**

SKIN CONTACT: Direct or prolonged contact can produce severe irritation to skin. **Corrosive.**

INHALATION: Solvent vapors or mist of product can produce irritation of mucous membranes. Exposure to ethyl alcohol concentrations greater than 1000 ppm cause headache, irritation of the eyes, nose and throat, and, if prolonged, drowsiness and lassitude, loss of appetite and ability to concentrate.

INGESTION: Immediate burning pain in the mouth, throat, abdomen and severe swelling of larynx, skeletal muscle paralysis affecting the ability to breath, circulatory shock, convulsions. May be fatal.

CARCINOGENICITY: NTP; No IARC; No OSHA; No

OVEREXPOSURE MAY AGGREVATE EXISTING CONDITIONS: No effects indicated.

SECTION 4: EMERGENCY & FIRST AID PROCEDURES:

EYES: Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician is not available, rinse for an additional 15 minutes and then transport victim to medical care.

SECTION 4: EMERGENCY & FIRST AID PROCEDURES (Continued):

SKIN: Wash with large amount of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing and decontaminate shoes before re-use.

INGESTION: If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water).

DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. (See Note to Physician, section 12) Never give anything by mouth to a convulsing or unconscious person.

INHALATION: Remove from area to fresh air. If not breathing, clear air way and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES:

FLASH POINT: >200° F

FLAMMABILITY: LEL: N/A, UEL: N/A

EXTINGUISHING MEDIA: Water Fog, Alcohol Foam, CO₂ , Dry Chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Must wear NIOSH/MSHA approved self contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion are toxic.

SECTION 6: ACCIDENTAL RELEASE MEASURES:**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Danger! Corrosive material. Floors may become slippery. Wear appropriate protective gear and respiratory protection where mists and vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.), and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

WASTE DISPOSAL METHODS: Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary, landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 7: HANDLING AND STORAGE:**PRECAUTIONS FOR STORAGE AND HANDLING :**

Maximum storage temperature: 140° F. Keep containers closed until used. Do not contaminate drinking water, food or feed by storage or disposal.

Keep lids tightly closed when not in use. Never move drums with open bungs. Keep properly labeled.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION INFORMATION:

VENTILATION TYPE: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

RESPIRATORY PROTECTION: In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised the absence of proper environmental controls.

PROTECTIVE GLOVES: Rubber or neoprene, to prevent skin contact.

EYE PROTECTION: Wear Chemical Splash Goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

OTHER PROTECTIVE EQUIPMENT: Eye Wash; Safety Shower; protective clothing (long sleeves, coveralls or other, as appropriate), to prevent skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Clear colorless liquid
SPECIFIC GRAVITY: (Water=1) 0.99 @ 25° C
SOLUBILITY IN WATER: Complete
PERCENT VOLATILE BY WEIGHT: 92.5
VAPOR DENSITY: (Air = 1) N/A
EVAPORATION RATE: (Butyl Acetate=1) Not Known

ODOR: Slightly Sweet
pH: 6.0 - 8.0
VISCOSITY @ 25° C: <50 cps
BOILING POINT: Not Known

SECTION 10: STABILITY & REACTIVITY DATA:

INCOMPATIBLE MATERIALS: Strong oxidizers or reducing agents.
STABILITY: Stable.
CONDITIONS TO AVOID: None known.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines and other organic materials, and oxides of carbon and nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION:

No information found for this material. The information below is for this material at 50% active quaternary ammonium chloride (active raw material).

- dermal LD50 (rabbit): 645 mg/kg
- skin irritation (rabbit): application of 0.5 ml to intact and abraded skin produced severe redness and swelling, as well as scabbing and blanching of the skin that did not clear by day 7, post-dose (primary irritation index = 7.0).
- corrosive via DOT test for skin corrosivity in rabbits.
- eye irritation (rabbit): installation of 0.1 ml to the eye without washing produced extreme irritation that did not clear by day 7, post-dose (primary irritation index = 108)
- skin sensitization (guinea pig - Buehler test): a 0.2% active solution was not a skin sensitizer.

SECTION 12: TRANSPORT INFORMATION:

INTERNATIONAL: UN Number: UN1903 (Ground only) / UN1903 (Air)

US TRANSPORTATION REGULATIONS:

DOT Classification: UN1903, 8 (Corrosive)
 DOT Proper Shipping Name: Disinfectants, liquid, corrosive N.O.S.
 (Contains Quaternary Ammonium Chloride)

Packing Group: III

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:
 N/A

13. MISCELLANEOUS AND REGULATORY INFORMATION:

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, as well as oxygen and measures to support breathing manually or mechanically may be needed.

FEDERAL REGULATIONS:

This is an EPA FIFRA registered pesticide (EPA Registration No. 6836-70-46269). This material can only be used in the EPA registered application (s) noted on the product label.

This product is regulated for direct and/or indirect food use under the following section (s) of the Code of Federal Regulations: 21 CFR 178.1010

13. MISCELLANEOUS AND REGULATORY INFORMATION (Continued):

TOXIC SUBSTANCE CONTROL ACT (TSCA INVENTORY) STATUS:

Found on the U.S. EPA TSCA inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980)

requires notification of the National Response Center (Tel. 800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantity (RQs) listed in 40 CFR 302.4:

CHEMICAL NAME: None Known

SARA Title III, sections 302/304 (Superfund Amendments and Reauthorizations Act of 1986):

This act requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and release Reportable Quantities (RQs) listed for the components in 40 CFR 355:

CHEMICAL NAME: None known.

SARA Title III, sections 311/312: This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard classes* listed in 40 CFR 370:

<u>CHEMICAL NAME:</u>	<u>C.A.S. Number</u>	<u>Hazard Category</u>
N,N-Dialkyl (C8-10)-N,N- dimethylammonium Chloride	68424-95-3	A
N-Alkyl (C12-16)-N,N-dimethyl-N-benzylammonium Chloride	68424-85-1	A
Ethanol	64-17-5	F

*The five hazard categories are as follows:

F = Fire Hazard S = Sudden Release of Pressure R = Reactive A = Immediate (Acute) Health Hazard
 C = Delayed (Chronic) Health Hazard

SARA Title III, sections 313: This act requires submission of annual reports of the releases of the following components of this material if the threshold reporting quantities as listed in 40 CFR 372, are met or exceeded:

CHEMICAL NAME: None known.

STATE RIGHT-TO-KNOW REGULATIONS:

MASSACHUSETTS Right-to-Know: The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:

<u>CHEMICAL NAME:</u>	<u>C.A.S. Number</u>	<u>Typical Max. Concentration</u>
Ethanol	64-17-5	1.5
Benzyl Chloride	100-44-7	2 ppm

NEW JERSEY Right-to-Know: The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:

<u>CHEMICAL NAME:</u>	<u>C.A.S. Number</u>	<u>Typical Max. Concentration</u>
N,N-Dialkyl (C8-10)-N,N- dimethylammonium Chloride	68424-95-3	4.5%
N-Alkyl (C12-16)-N,N-dimethyl-N-benzylammonium Chloride	68424-85-1	3.0%
Ethanol	64-17-5	1.5%

PENNSYLVANIA Right-to-Know: The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:

<u>CHEMICAL NAME:</u>	<u>C.A.S. Number</u>	<u>Typical Max. Concentration</u>
Ethanol	64-17-5	1.5%

PREPARED BY: D. M. McFadden

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