

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

Issue date 08/06/2020 Reviewed on 08/06/2020

1 Identification

- · Product Identifier
- · Trade name: NACCOSAN
- Relevant identified uses of the substance or mixture and uses advised against: Disinfectant Liquid
- · Product Description Disinfectant Liquid
- · Details of the Supplier of the Safety Data Sheet:
- · Manufacturer/Supplier:

Grow More

15600 New Century Drive

Gardena, CA 90248

(310) 515-1700

www.growmore.com

· Emergency telephone number: (310) 515-1700

2 Hazard(s) Identification

Classification of the substance or mixture:



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- · Label elements:
- · GHS label elements

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

Hazard pictograms:





GHS05 GHS07

- · Signal word: Danger
- · Hazard-determining components of labeling:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Decyldimethyloctylammonium chloride

Dimethyldioctylammonium chloride

Didecyldimethylammonium chloride

Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304+P340 IF INHALED: Remove person to fresh air and keep 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/doctor.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

9.5 % of the mixture consists of component(s) of unknown toxicity.

· Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



*3 Health = *3 • Fire = 0

REACTIVITY 0 Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

· Non-hazardous components:	
7732-18-5 Water, distilled water, deionized water	70-90%

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:				
CAS: 68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Flam. Liq. 3, H226; ♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302	5-10%		
CAS: 32426-11-2	Decyldimethyloctylammonium chloride Acute Tox. 3, H301; Skin Irrit. 2, H315; Eye Irrit. 2B, H320	5-10%		
CAS: 5538-94-3	Dimethyldioctylammonium chloride ♦ Flam. Liq. 3, H226; ♦ Skin Corr. 1B, H314; Eye Dam. 1, H318; ♦ Acute Tox. 4, H302	2-12%		
CAS: 7173-51-5	Didecyldimethylammonium chloride ♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302	2-12%		
CAS: 64-17-5 RTECS: KQ 6300000	Ethanol Flam. Liq. 2, H225; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	≤ 2.5%		

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· 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: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eve contact:

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes.

Seek immediate medical advice.

- · After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

- Extinguishing media:
- · Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters:
- · Protective equipment:

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:

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

PAC-1:	
68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	1.3 mg/m3
7173-51-5 Didecyldimethylammonium chloride	0.82 mg/m3
64-17-5 Ethanol	1,800 ppm

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· PAC-2:				
68424-85-1	1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 14 mg/			
7173-51-5	5 Didecyldimethylammonium chloride 9 mg/m3			
64-17-5	7-5 Ethanol 33			
PAC-3:				
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	84 mg/m3		
7173-51-5	Didecyldimethylammonium chloride	17 mg/m3		
64-17-5	-5 Ethanol 15000* p			

7 Handling and Storage

- · Handling
- · Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities:
- · Storage
- · Requirements to be met by storerooms and receptacles: Store in a cool, dry place.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

· Specific end use(s): No further relevant information available.

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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

64-17-5 Ethanol PEL Long-term value: 1900 mg/m³, 1000 ppm REL Long-term value: 1900 mg/m³, 1000 ppm TLV Short-term value: 1880 mg/m³, 1000 ppm

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment: Not required.

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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· Eye protection:



Tightly sealed goggles

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:

Form: Liquid Color: Clear Slight

Odor threshold: Not determined.pH-value: Not applicable.

· Change in condition

Melting point/Melting range: Not determined.

Boiling point/Boiling range: 78-100 °C (172.4-212 °F)

· Flash point: None

Flammability (solid, gaseous): Not applicable.
 Ignition temperature: Not applicable
 Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined. Upper: Not determined.

· Vapor pressure @ 20 °C (68 °F): 23 hPa (17.3 mm Hg)

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· Density:

Relative density:

Vapor density:

Not determined.

Not determined.

Evaporation rate:

Not determined.

· Solubility in / Miscibility with:

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

Solvent content:

 Organic solvents:
 2.0 %

 Water:
 72.8 %

 VOC content:
 2.0 %

• Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

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

· LD/LC50	· LD/LC50 values that are relevant for classification:				
5538-94-3	5538-94-3 Dimethyldioctylammonium chloride				
Oral	LD50	1025 mg/kg (Rat)			
7173-51-5	7173-51-5 Didecyldimethylammonium chloride				
Oral	LD50	84 mg/kg (Rat)			
64-17-5 E	64-17-5 Ethanol				
Oral	LD50	7060 mg/kg (Rat) Remarks: Lungs, Thorax, or Respiration: Other changes. Carcinogenicity - Mouse - Oral Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkin's disease. Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Heart - Irregularities - Based on Human Evidence Central nervous system - Breathing difficulties - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence			
Inhalative	LC50/4 h LC50/96 hours	20000 mg/l (Rat) 12900-15300 mg/l (Trout)			

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· Primary irritant effect:

On the skin:

Corrosive effect on skin and mucous membranes.

Corrosive to skin and mucous membranes.

· On the eve:

Corrosive effect.

Causes serious eve irritation.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):

The IARC (the International Agency for Research on Cancer) concluded that ethanol found alcoholic beverages to be Group 1 - Carcinogenic to humans. All other instances it is not consider carcinogenic.

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

64-17-5 Ethanol 1

• NTP (National Toxicology Program):

None of the ingredients are listed.

• OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

64-17-5 Ethanol

EC50 34900 mg/l (Daphnia)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · *Mobility in soil:* No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · Results of PBT and vPvB assessment:
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

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13 Disposal Considerations

- · Waste treatment methods:
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.

14 Transport Information

· UN-Number:

· **DOT, ADR/ADN, IMDG, IATA** UN1903

UN proper shipping name:

Disinfectants, Liquid, Corrosive, N.O.S., ADR/ADN (Quaternary Ammonium Compounds),

· *IMDG, IATA* 8, PGIII

· Transport hazard class(es):

· DOT



· Class: 8 Corrosive substances

· Label:

· ADR/ADN, IMDG, IATA



· Class: 8 Corrosive substances

· Label:

· Packing group:

· DOT, ADR/ADN, IMDG, IATA

· Environmental hazards: Not applicable.

· Special precautions for user: Warning: Corrosive substances

• EMS Number: F-A,S-B
• Segregation groups: Alkalis
• Stowage Category A
• Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

· Transport/Additional information:

· ADR/ADN Code: E1

• Excepted quantities (EQ): Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml UN 1903 Disinfectants, Liquid, Corrosive,

• **UN "Model Regulation":**N.O.S., (Quaternary Ammonium Compounds), 8,

PGIII (Contd. on page 9)



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5 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

- California Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

64-17-5 Ethanol

New Jersey Right-to-Know List:

64-17-5 Ethanol

· New Jersey Special Hazardous Substance List:

64-17-5 Ethanol

CA, MU, TE, F3

· Pennsylvania Right-to-Know List:

64-17-5 Ethanol

Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

- · Carcinogenic categories:
- EPA (Environmental Protection Agency):

None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH):

64-17-5 Ethanol

A3

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

GHS label elements

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

· Hazard pictograms:





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· Signal word: Danger

· Hazard-determining components of labeling:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Decyldimethyloctylammonium chloride Dimethyldioctylammonium chloride Didecyldimethylammonium chloride

Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

· Precautionary statements:

P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304+P340 IF INHALED: Remove person to fresh air and keep 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/doctor.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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: 08/06/2020 / 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)

VOC: Volatile Organic Compounds (USA, EU)

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



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OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
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. 2B: Serious eye damage/eye irritation – Category 2B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.

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