

SAFETY DATA SHEET

1. Identification

Product identifier Clorox Multi-Purpose Cleaner - Citrus Groves

Other means of identification Document Number: USA002070

Recommended useCleaner **Recommended restrictions**None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name The Clorox Company 1221 Broadway

Oakland, CA 94612 United States

Telephone 1-510-271-7000 **E-mail** Not available.

Emergency phone number Medical Emergency: 1-800-446-1014

Transportation Emergency: 1-800-424-9300 (Chemtrec)

2. Hazards Identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Acute toxicity, inhalation

Category 4

Skin corrosion/irritation

Category 1

Serious eye damage/eye irritation

Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. Harmful if swallowed. Harmful if inhaled. May cause

respiratory irritation.

Precautionary statement

Prevention Do not breathe mist. Wash thoroughly after handling. Wear protective gloves, protective clothing

and eye protection. Do not eat, drink or smoke when using this product. Use only outdoors or in a

well-ventilated area.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

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

Disposal Dispose of container in accordance with local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure. This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government

regulations.

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	3. Composition/Information on l	Ingredients		
Mixtures				
Chemical name	Common name and synonyms	CAS number	%	
1-Dodecanamine, N,N-dimethyl-,N-oxide		1643-20-5	10-30*	
Alkyl benzyl dimethyl ammonius chloride	m	68424-85-1	5-10*	
Ethanol		64-17-5	0.5-1.5*	
Ethylenediaminetetraacetic acid potassium salt	1,	5964-35-2	1-5*	
Monoethanolamine		141-43-5	5-10*	
N,N-dimethyl-1-tetradecanamin N-oxide	e,	3332-27-2	5-10*	
All concentrations are in percent b	y weight unless ingredient is a gas. Gas conce	ntrations are in percent by volu	ume.	
Composition comments	US GHS: The exact percentage (concentration secret in accordance with paragraph (i) of §1		rithheld as a trade	
	4. First Aid Measures	3		
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.			
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label).			
Eye contact		IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present deasy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.		
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT indudoctor.	F SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER o loctor.		
Most important symptoms/effects, acute and delayed		may include stinging, tearing, redness, swelling, and blurred ncluding blindness could result. Burning pain and severe corrosive		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre	eat symptomatically. Symptom	s may be delayed.	
General information	f you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. KEEP OUT OF REACH OF CHILDREN AND PETS.			
	5. Fire Fighting Measur	es		
Suitable extinguishing media	Treat for surrounding material.			
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as the	nis will spread the fire.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e formed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	protective clothing must be wor	n in case of fire.	
Fire fighting equipment/instructions	Move containers from fire area if you can do	so without risk.		
Specific methods	Use standard firefighting procedures and con	sider the hazards of other invo	olved materials.	
General fire hazards	No unusual fire or explosion hazards noted.			
	6. Accidental Release Mea	sures		
Personal precautions, protective equipment and	Keep unnecessary personnel away. Keep pe appropriate protective equipment and clothing or spilled material unless wearing appropriate	g during clean-up. Do not touc	ch damaged containers	

emergency procedures

or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Page: 2 of 9 #34426 Issue date 14-January-2022 Methods and materials for containment and cleaning up Prevent entry into basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling

Avoid contact with eyes and skin. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities Keep container tightly closed in a cool, dry and well-ventilated place. KEEP OUT OF REACH OF CHILDREN AND PETS.

Value

3 ppm

3 ppm

8. Exposure Controls/Personal Protection

Occupational exposure limits

Components

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm
Monoethanolamine (CAS 141-43-5)	PEL	6 mg/m3

Type

US. ACGIH Threshold Limit Values

Components	туре	value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Monoethanolamine (CAS 141-43-5)	STEL	6 ppm

TWA

US. NIOSH: Pocket Guide to Che Components	Type	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm	
Monoethanolamine (CAS 141-43-5)	STEL	15 mg/m3	
,		6 ppm	
	TWA	8 mg/m3	
		3 ppm	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields. Eye/face protection

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

Other Wear appropriate chemical resistant clothing. As required by employer code.

Where exposure quideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Not applicable. Thermal hazards

#34426 Page: 3 of 9 Issue date 14-January-2022 **General hygiene** considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands before breaks and immediately after handling the product. When using do not eat or drink.

9. Physical and Chemical Properties

Clear **Appearance** Physical state Liquid. Liquid. Form White Color Odor Citrus

Not available. Odor threshold 11 - 12.5 Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Not available. Pour point Not available. Specific gravity

Partition coefficient (n-octanol/water)

> 199.4 °F (> 93.0 °C) Pensky-Martens Closed Cup Flash point

Not available.

Evaporation rate Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Not available. Vapor pressure Vapor density Not available. 0.993 Relative density Complete

Solubility(ies) Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

10. Stability and Reactivity

This product may react with strong oxidizing agents. Reactivity

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions.

Conditions to avoid Do not mix with other chemicals. DO NOT MIX WITH BLEACH or use in conjunction with other

household products.

Incompatible materials Oxidizers. Caustics. Acids.

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen chloride.

11. Toxicological Information

Information on likely routes of exposure

Inhalation Harmful if inhaled. May cause respiratory tract irritation.

Skin contact Causes severe skin burns. Causes serious eye damage. Eye contact

Harmful if swallowed. May cause stomach distress, nausea or vomiting. Causes digestive tract Ingestion

burns.

#34426 Page: 4 of 9 Issue date 14-January-2022 Symptoms related to the physical, chemical and toxicological characteristics

LD50

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause redness and pain.

Information on toxicological effects **Acute toxicity** See below. Components **Species Test Results** 1-Dodecanamine, N,N-dimethyl-,N-oxide (CAS 1643-20-5) Acute Dermal Rat LD50 > 2000 mg/kg, ECHA Inhalation LC50 Not available Oral LD50 Rat 1064 mg/kg, ECHA Alkyl benzyl dimethyl ammonium chloride (CAS 68424-85-1) Acute Dermal LD50 Rabbit 3412 mg/kg, ECHA Inhalation LC50 Rat 0.3 mg/l/4h, ECHA Oral LD50 Rat 795 mg/kg, ECHA Ethanol (CAS 64-17-5) **Acute** Dermal LD50 Rabbit > 15800 mg/kg, SIDS initial assessment report Inhalation LC50 > 60000 ppm, 60 Minutes, ECHA Mouse Oral LD50 Rat 10470 mg/kg, ECHA Ethylenediaminetetraacetic acid, potassium salt (CAS 5964-35-2) **Acute** Dermal LD50 Not available Inhalation LC50 Not available Oral 1780 - 2000 mg/kg, ECHA LD50 Monoethanolamine (CAS 141-43-5) **Acute** Dermal LD50 Rabbit 2504 mg/kg, 24 Hours, ECHA Inhalation LC50 Rat > 1.3 mg/L, 6 Hours, ECHA Oral LD50 Rat 1089 mg/kg, ECHA N,N-dimethyl-1-tetradecanamine, N-oxide (CAS 3332-27-2) Acute Dermal LD50 Rabbit > 2000 mg/kg, 24 Hours, ECHA Inhalation LC50 Not available Oral

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> 1500 mg/kg, ECHA

Rat

Skin corrosion/irritation Causes severe burns.

Exposure minutes Not available.
Erythema value Not available.
Oedema value Not available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value

Iris lesion value

Not available.

Conjunctival reddening

Not available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity See below.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Not available.

Further information Not available.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components Species Test Results

Alkyl benzyl dimethyl ammonium chloride (CAS 68424-85-1)

Aquatic

Fish LC50 Striped bass (Morone saxatilis) 10.4 - 19.1 mg/L, 96 hours

Ethanol (CAS 64-17-5) Crustacea

Crustacea EC50 Daphnia 11744.5 mg/L, 48 Hours

Aquatic

Fish

Crustacea EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/L, 48 hours

Fathead minnow (Pimephales promelas) > 100 mg/L, 96 hours

Monoethanolamine (CAS 141-43-5)

Algae IC50 Algae 15 mg/L, 72 Hours

Crustacea EC50 Daphnia 65 mg/L, 48 Hours

Aquatic

Persistence and degradability

Fish LC50 Rainbow trout,donaldson trout 114 - 196 mg/L, 96 hours (Oncorhynchus mykiss)

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

1-Dodecanamine, N,N-dimethyl-,N-oxide 4.67 Ethanol -0.31

Not available.

LC50

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Partition coefficient n-octanol / water (log Kow)

-1.31 Monoethanolamine

Mobility in soil Not available. Not available. Mobility in general Other adverse effects Not available.

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport Information

Canada: TDG Proof of Classification: General

> Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the

product will appear below.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN1760

Proper shipping name Corrosive liquids, n.o.s.

Technical name Alkyl benzyl dimethyl ammonium chloride

Hazard class Limited Quantity - US

Ш Packing group Packaging exceptions 154

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1760

CORROSIVE LIQUID, N.O.S. Proper shipping name

Technical name Alkyl benzyl dimethyl ammonium chloride

Hazard class Limited Quantity - Canada

Packing group **Special provisions** 16

IATA/ICAO (Air)

Basic shipping requirements:

UN1760 **UN** number

Proper shipping name Corrosive liquid, n.o.s.

Technical name Alkyl benzyl dimethyl ammonium chloride

Limited Quantity - IATA **Hazard class**

Ш **Packing group**

IMDG (Marine Transport)

Basic shipping requirements:

UN1760 **UN** number

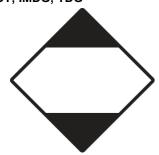
CORROSIVE LIQUID, N.O.S. Proper shipping name

Alkyl benzyl dimethyl ammonium chloride **Technical name**

Limited Quantity - IMDG **Hazard class**

Ш Packing group

DOT; IMDG; TDG





15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Product is compliant with CPSC regulatory guidelines.

DANGER CORROSIVE.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely N

hazardous substance

SARA 311/312 Hazardous

chemical

Classified hazard Acute toxicity (any route of exposure)

categories Skin corrosion or irritation

Yes

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5) Low priority

Food and Drug Not regulated.

Administration (FDA)

US state regulations See below

US - Illinois Chemical Safety Act: Listed substance

Ethanol (CAS 64-17-5)

US - Louisiana Spill Reporting: Listed substance

Ethanol (CAS 64-17-5) Listed.

US - Minnesota Haz Subs: Listed substance

Ethanol (CAS 64-17-5) ETHANOL (SEE ETHYL ALCOHOL)

ETHYL ALCOHOL (ETHANOL)

Monoethanolamine (CAS 141-43-5) 2-AMINOETHANOL (SEE ETHANOLAMINE)

ETHANOLAMINE

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Ethanol (CAS 64-17-5)

Monoethanolamine (CAS 141-43-5)

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

Ethanol (CAS 64-17-5)

Monoethanolamine (CAS 141-43-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Ethanol (CAS 64-17-5)

Monoethanolamine (CAS 141-43-5)

US. Rhode Island RTK

Ethanol (CAS 64-17-5)

Monoethanolamine (CAS 141-43-5)

California Proposition 65

This product is not subject to warning labeling under the California Proposition 65 regulation.

Country(s) or region Inventory name

On inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

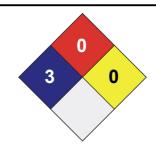
Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

The information in the safety data sheet was written by Dell Tech Laboratories Ltd. (www.delltech.com) based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date

Version #

Further information

Not available.

14-January-2022

Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Reference Item: 513079-001

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