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Version Number: 01

**1. IDENTIFICATION**

**Product Identifier**

**Product Name** Cleanworks #9 Multi-Purpose Disinfectant

**Other means of identification**

**Product Code** L09

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Multi-Purpose Disinfectant.

**Details of the supplier of the safety data sheet**

**Supplier Address**

Carroll Company  
2900 W. Kingsley Road.  
Garland, TX 75041

**Emergency Telephone Number**

**Company Phone Number** 1-800-527-5722  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

**2. HAZARDS IDENTIFICATION**

**Appearance** Clear, Dark Blue

**Physical State** Liquid

**Odor** Citrus

**GHS Classification**

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal): Category 4

Skin irritation: Category 2

Eye irritation: Category 2A

**GHS Label element:**

Hazard pictograms



Signal word

Warning

Hazard statements

H302 + H312 Harmful if swallowed or in contact with skin  
H315 Causes skin irritation.  
H319 Causes serious eye irritation

**Precautionary statements**

**Prevention:**

P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product. P280  
Wear eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
 P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards:**

None Known

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous Components**

Chemical Name	CAS-No.	Concentration (%)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	6.80
Ethanol	64-17-5	3.20

**SECTION 4. FIRST AID MEASURES**

**If inhaled**

Move to fresh air.  
 If breathing is irregular or stopped, administer artificial respiration. Give oxygen.  
 First aider needs to protect himself. Call a physician immediately.

**In case of skin contact**

Take off all contaminated clothing immediately.  
 After contact with skin, wash immediately with plenty of soap and water.  
 Call a physician immediately.

**In case of eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
 Call a physician immediately.

**If swallowed**

Call a physician immediately.  
 Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice.  
 Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

No information available.

**Notes to physician**

No information available

**SECTION 5. FIRE-FIGHTING MEASURES**

<b>Suitable extinguishing media</b>	Water spray Dry Powder Foam
<b>Specific hazards during firefighting</b>	Heating or fire can release toxic gas.
<b>Further information</b>	Use water spray to cool unopened containers.
<b>Special protective equipment for firefighters</b>	In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures</b>	Use respirator when performing operations involving potential exposure to vapour of the product.
<b>Environmental precautions</b>	
<b>General advice</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods and materials for containment and cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**SECTION 7. HANDLING AND STORAGE**

<b>Advice on safe handling</b>	Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms.
<b>Conditions for safe storage</b>	To maintain product quality, do not store in heat or direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		REL	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH/GUIDE
		PEL	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA_TRANS
	TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	Z1A	TWA
	STEL	1,000 ppm	CAD ON OEL	STEL

**Appropriate engineering controls**

**Personal protective equipment**

**Respiratory protection**

In the case of vapour formation use a respirator with an approved filter.

**Hand protection**

**Remarks**

Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

**Eye protection**

Tightly fitting safety goggles  
Face-shield

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Rubber or plastic apron  
Rubber or plastic boots

**Hygiene measures**

Wash hands before breaks and immediately after handling the product.  
Avoid contact with skin, eyes and clothing.  
Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Liquid
<b>Color</b>	Clear Dark Blue
<b>Odor</b>	Citrus
<b>Odor Threshold</b>	no data available
<b>pH</b>	7.2 - 8.2
<b>Melting point/freezing point</b>	no data available
<b>Boiling point/boiling range</b>	no data available
<b>Flash point</b>	> 93.3 °C
<b>Evaporation rate</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Vapor pressure</b>	no data available
<b>Relative vapor density</b>	no data available
<b>Relative density</b>	no data available
<b>Density</b>	no data available
<b>Solubility</b>	
<b>Water solubility</b>	soluble
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Auto-ignition temperature</b>	no data available

**Decomposition temperature** no data available

**Viscosity**  
**Viscosity, dynamic** no data available

**Viscosity, kinematic** no data available

**SECTION 10. STABILITY AND REACTIVITY**

**Reactivity** Stable under recommended storage conditions.

**Incompatible materials** Strong oxidizing agents  
Reducing agents

**Hazardous decomposition products** Nitrogen oxides (NO<sub>x</sub>)  
Amines  
Hydrogen chloride gas  
Carbon oxides

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure** Eyes Skin  
Inhalation  
Ingestion

**Acute toxicity**

**Acute oral toxicity (LD50)** 1,650 mg/kg  
Species: Rat

**Acute dermal toxicity (LD50)** 1,870 mg/kg  
Species: Rabbit

**Carcinogenicity**

**IARC** Group 1: Carcinogenic to humans

Ethanol 64-17-5

**OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Further information**

Remarks: Information given is based on data on the components and the toxicology of similar products.

**The following toxicological data refer to:**

**Didecyldimethylammonium Chloride (CAS-No.: 7173-51-5)**

**Acute toxicity**

**Acute oral toxicity (LD50)** 238 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401  
GLP: yes

**Acute dermal toxicity (LD50)** 3,342 mg/kg  
Species: Rabbit

**Skin corrosion/irritation**

**Skin irritation** irritating Species: Rabbit  
Exposure time: 3 min  
Assessment: Causes burns. Method:  
OECD Test Guideline 404  
GLP: yes

**Respiratory or skin sensitisation**

**Sensitisation** Test Type: Buehler Test  
Species: Guinea pig  
Assessment: Did not cause sensitisation on laboratory animals.  
Method: US-EPA  
Result: not sensitizing  
GLP: yes

**Germ cell mutagenicity**

**Genotoxicity in vitro** Negative  
Ames test, Salmonella typhimurium  
Metabolic activation: yes Method: OECD Test Guideline 471  
GLP: yes

Negative

Chromosome aberration test in vitro, Chinese hamster ovary cells  
Metabolic activation: yes GLP: yes

**Negative**

Gene mutation, Chinese hamster ovary cells

Metabolic activation: yes GLP: yes

Genotoxicity in vivo

**Negative**

Chromosome aberration test in vivo

Application Route: Oral

Species: Rat

Dose: 600 mg/kg Method: OECD Test Guideline 475

GLP: yes

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides** (CAS-No.: 68424-85-1)

**Acute toxicity**

**Acute oral toxicity (LD50)**

ca. 344 mg/kg

Species: Rat

**Acute dermal toxicity (LD50)**

ca. 3,340 mg/kg

Species: Rabbit

Exposure time: 24 h

**Skin corrosion/irritation**

**Skin irritation**

Corrosive Species:

Rabbit Exposure time:

24 h Method: DOT

**Serious eye damage/eye irritation**

**Eye irritation**

Corrosive Species:

Rabbit Method:

DOT

**Respiratory or skin sensitisation**

**Sensitisation**

Test Type: Buehler Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals. Method:

OECD Test Guideline 406

Result: not sensitizing

GLP: yes

**Germ cell mutagenicity**

**Genotoxicity in vitro**

**Negative**

Ames test, Salmonella typhimurium

Metabolic activation: yes Method: OECD Test Guideline 471

GLP: yes

**Negative**

Chromosome aberration test in vitro, Human lymphocytes

Metabolic activation: yes Method: OECD Test Guideline 473

GLP: yes

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

no data available

**Persistence and degradability** no data available

**Bioaccumulative potential**

**Components:**

**Ethanol**

Partition coefficient: n-octanol/water

**Ethanol**

Partition coefficient: n-octanol/water

**Mobility in soil**



**Other adverse effects**

log Pow: -0.3

log Pow: -0.3

**Additional ecological information**

No information on ecology is available.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues

Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of as unused product.

**SECTION 14. TRANSPORT INFORMATION****IATA**

<b>UN number</b>	1903
<b>Proper shipping name</b>	Disinfectant, liquid, corrosive, n.o.s. (N,N-Didecyl-N,N-dimethylammonium chloride)
<b>Transport hazard class</b>	8
<b>Packing group</b>	III
<b>Labels</b>	8
<b>Environmental hazards</b>	no

**IMDG**

<b>UN number</b>	1903
<b>Proper shipping name</b>	Disinfectant, liquid, corrosive, n.o.s. (N,N-Didecyl-N,N-dimethylammonium chloride)
<b>Transport hazard class</b>	8
<b>Packing group</b>	III
<b>Labels</b>	8
<b>EmS Number 1</b>	F-A
<b>EmS Number 2</b>	S-B
<b>Environmental hazards</b>	Marine pollutant: No

**ADR**

**UN number** 1903  
**Proper shipping name** DISINFECTANT, LIQUID, CORROSIVE, N.O.S.  
 (N,N-Didecyl-N,N-dimethylammonium chloride)  
**Transport hazard class** 8  
**Packing group** III  
**Classification Code** C9  
**Hazard Identification Number** 80  
**Labels** 8  
**Environmental hazards** no

**RID**

**UN number** 1903  
**Proper shipping name** DISINFECTANT, LIQUID, CORROSIVE, N.O.S.  
 (N,N-Didecyl-N,N-dimethylammonium chloride)  
**Transport hazard class** 8  
**Packing group** III  
**Classification Code** C9  
**Hazard Identification Number** 80  
**Labels** 8  
**Environmental hazards** no

**DOT**

**UN number** 1903  
**Proper shipping name** Disinfectants, liquid, corrosive n.o.s.  
 (N,N-Didecyl-N,N-dimethylammonium chloride)  
**Transport hazard class** 8  
**Packing group** III  
**Labels** : 8  
**Emergency Response Guidebook Number** 153  
**Environmental hazards** no

**TDG**

**UN number** 1903  
**Proper shipping name** DISINFECTANT, LIQUID, CORROSIVE, N.O.S.  
 (N,N-Didecyl-N,N-dimethylammonium chloride)  
**Transport hazard class** 8  
**Packing group** III  
**Labels** 8  
**Environmental hazards** no

**Special precautions for user** none

**Transport in bulk according to An- nex II of MARPOL 73/78 and the IBC Code** Not applicable

**SECTION 15. REGULATORY INFORMATION**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

**Signal word** DANGER!  
**Hazard statements** Harmful if swallowed.  
 Harmful if absorbed through skin.  
 Harmful if inhaled.  
 Corrosive. Causes skin burns.  
 Corrosive. Causes irreversible eye damage.

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)

**SARA 311/312 Hazards** Acute Health Hazard

**SARA 302** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations**

**Massachusetts Right To Know**

Edetic acid 60-00-4  
 Ethanol 64-17-5

**Pennsylvania Right To Know**

Edetic acid 60-00-4  
 Ethanol 64-17-5

**New Jersey Right To Know**

Edetic acid 60-00-4  
 Ethanol 64-17-5

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16. OTHER INFORMATION**

**Revision Date**

06-01-2015