



World Class Cleaning & Hygiene Solutions™

# NATIONAL CHEMICAL LABORATORIES, INC.

## SAFETY DATA SHEET

### Section 1 - Identification

**Product Identifier** Earth Sense® Neutral Disinfectant Detergent  
**Other means of identification** 4038  
**Recommended use** Neutral Disinfectant Cleaner Deodorizer  
**Recommended restrictions** EPA Registered Product. For Commercial and Industrial Use Only. This product is intended to be diluted prior to use.

#### Manufacturer / Importer / Supplier / Distributor Information

**Company Name** National Chemical Laboratories of PA, Inc.  
**Address** 401 N. 10th Street - Philadelphia, PA 19123  
**Telephone** 1 (215) 922-1200  
**Supplier Email** info@nclonline.com  
**Contact** CHEM-TEL  
**Emergency Phone** 1 (800) 255-3924

### Section 2 - Hazard(s) Identification

SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.

	Classification	Category
<b>Physical Hazards</b>	Not Classified	
<b>Health Hazards</b>	Acute toxicity, oral	4
	Serious eye damage/eye irritation	1
	Skin corrosion/irritation	2
<b>Environmental Hazards</b>		<b>Category</b>
	Hazardous to the aquatic environment, acute hazard.	2
<b>OSHA defined hazards</b>	Not Classified.	

#### Label Elements

##### Hazard Symbol



**Signal Word** Danger

**Hazard Statement** Causes skin irritation. Causes serious eye damage. Harmful if swallowed. Toxic to aquatic life.

**Precautionary statement**

**Prevention** Wash thoroughly after handling. Wear protective gloves. Wear eye/face protection.

**Response** If on skin: Wash with plenty of soap and water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

### Section 3 - Composition/Information on ingredients

#### Mixture

Hazardous Components	Ingredient Name	CAS #	%
	Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	1 - 3
	Didecyl dimethyl ammonium chloride	7173-51-5	1 - 3

**Composition Comments** Components not listed are either non-hazardous or are below reportable limits.

### Section 4 - First-aid Measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing. Wash with plenty of soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

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<b>Ingestion</b>	Rinse mouth. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration. Call a physician or poison control center immediately.
<b>Most important symptoms or effects, acute and delayed</b>	Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General Information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## Section 5 - Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire-fighting equipment /instructions</b>	Move containers from fire area if you can do so without risk.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Specific Methods</b>	Use standard fire fighting procedures and consider the hazards of other involved materials.

## Section 6 - Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures.</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers 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.
<b>Methods and materials for containment and cleaning up</b>	This product is miscible in water. 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. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## Section 7 - Handling and storage

<b>Precautions for safe handling</b>	Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Store away from foodstuffs. Store away from incompatible materials (see Section 10 of the SDS).

## Section 8 - Exposure control/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	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. Eye wash facilities and emergency shower must be available when handling this product.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	If use of product risks exposure to contact, wear safety glasses with side shields.
<b>Skin protection</b>	
<b>Hand protection</b>	Impervious gloves are recommended for prolonged use.
<b>Other</b>	If use of product risk exposure to contact, wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	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.

## Section 9 - Physical and chemical properties

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<b>Appearance</b>	
Physical state	Liquid.
Form	Clear, thin liquid.
Color	Colorless.
Odor	Mild Quaternary.
Odor threshold	Not available.
pH	7.4
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	None to boiling.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Similar to water.
Vapor density	Not available.
Relative density	1.00 ± 0.01
Relative density temperature	75 °F (23.9 °C)
Solubilities (water)	Completely soluble.
Partition Coefficient n-octanol/water	Not available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	< 10 cSt
Viscosity Temperature	75 °F (23.9 °C)

## Section 10 - Stability and reactivity

<b>Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to Avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents. Anionic surfactants.
<b>Hazardous Decomposition Products</b>	No hazardous decomposition products are known.

## Section 11 - Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics** Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

### Information on toxicological effects.

**Acute toxicity** Harmful if swallowed.

Components	Level	Type	Code	Species	Results
Alkyl dimethyl benzyl ammonium chloride (C12-16) (CAS 68424-85-1)	Acute	Dermal	LD50	Rat	3560 mg/kg
	Acute	Oral	LD50	Rat	430 mg/kg
Didecyl dimethyl ammonium chloride (CAS 7173-51-5)	Acute	Dermal	LD50	Rabbit (Male / Female)	3140 / 2730 mg/kg
	Acute	Oral	LD50	Rat (Male / Female)	238 / 331 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

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<b>Serious eye damage/ eye irritation</b>	Causes serious eye damage.
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.

## Section 12 - Ecological Information

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### Component(s)

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

### Aquatic

Level	Type	Code	Species	Test Results
Acute	Crustacea	LC50	Daphnia	0.057 mg/l, 48 h
	Fish	LC50	Bluegill (Lepomis macrochirus)	0.032 mg/l, 96 h
Aquatic	Algae	EC50	Algae	0.062 mg/l, 72 h
	Crustacea	NOEC	Daphnia	0.021 mg/l, 21 d
	Fish	LC50	Danio rerio	0.97 mg/l, 96 h
Chronic	Crustacea	NOEC	Daphnia	0.01 mg/l

Alkyl dimethyl benzyl ammonium chloride (C12-16) (CAS 68424-85-1)

### Aquatic

Acute	Fish	EC50	Oncorhynchus mykiss (rainbow trout) Remarks: No toxicity at the limit of solubility.	>0.022 mg/l, 96 hours
	Fish	LC50	Bluegill (Lepomis macrochirus)	0.515 mg/l
Chronic	Crustacea	NOEL	Daphnia	0.0042 mg/l

**Persistence and degradability** No data is available on the degradability of this product.

### Bioaccumulative potential

#### Partition coefficient n-octanol / water log (Kow)

Components	Results
Alkyl dimethyl benzyl ammonium chloride (C12-16) (CAS 68424-8)	log Pow: 2.75 (20°C) Method: OECD Test Guideline 107 GLP: yes

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Section 13 - Disposal considerations

### Disposal instructions

**PESTICIDE DISPOSAL** - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL** - Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying.

(For containers 5 gallons or less):

Triple rinse as follows: Fill container 1/4 full with water and recap. Agitate vigorously. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

(For containers greater than 5 gallons):

Triple rinse as follows: Fill container 1/4 full with water. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

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<p><b>Hazardous waste code</b></p> <p><b>Waste from residues / unused products</b></p> <p><b>Contaminated packaging</b></p>	<p>PACKET DISPOSAL - Do not reuse; discard empty container and put in trash.</p> <p>The waste code should be assigned in discussion between the user, the producer and the waste disposal company.</p> <p>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).</p> <p>Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.</p>
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## Section 14 - Transport information

<p><b>DOT</b></p> <p><b>IATA</b></p> <p><b>IMDG</b></p> <p><b>Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code</b></p>	<p>Not regulated as dangerous goods.</p> <p>Not regulated as dangerous goods.</p> <p>Not regulated as dangerous goods.</p> <p>This substance/mixture is not intended to be transported in bulk.</p>
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## Section 15 - Regulatory Information

<p><b>US federal regulations</b></p> <p><b>TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)</b></p> <p><b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b></p> <p><b>CERCLA Hazardous Substance List (40 CFR 302.4)</b></p>	<p>This product is a U.S. EPA registered pesticide.</p> <p>This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.</p> <p>Not regulated.</p> <p>Not listed.</p> <p>Not listed.</p>
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**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<p><b>Hazard Categories</b></p> <p>Immediate Hazard</p> <p>Delayed Hazard</p> <p>Fire Hazard</p> <p>Pressure Hazard</p> <p>Reactivity Hazard</p> <p><b>SARA 302 Extremely hazardous substance</b></p> <p><b>SARA 311/312 Hazardous chemical</b></p>	<p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>Not listed.</p> <p>Yes</p>
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**SARA 313 (TRI reporting)** Not regulated.

**Other federal regulations**

<p><b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b></p> <p><b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b></p> <p><b>Safe Drinking Water Act (SDWA)</b></p> <p><b>Food and Drug Administration (FDA)</b></p>	<p></p> <p>Not regulated.</p> <p>Not regulated.</p> <p>Not regulated.</p>
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**US state regulations**

<p><b>US.Massachusetts RTK - Substance List</b></p> <p><b>US.New Jersey Worker and Community Right-to-Know Act</b></p> <p><b>US.Pennsylvania RTK - Hazardous Substances</b></p> <p><b>US.Rhode Island RTK</b></p> <p><b>US - California Proposition 65</b></p>	<p>Not regulated.</p> <p>Not listed.</p> <p>Not listed.</p> <p>Not regulated.</p> <p>This material is not know to expose you to a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.</p>
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**International Inventories**

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCs)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Unites 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).

\*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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## Section 16 - Other information, including date of preparation or last version

**Revision date** 6/1/2023

**Version #** 03

**Further information** Some information may conflict with EPA mandated label information.

**HMIS Hazard Codes** Health 2 Flammability 0 Physical Hazard 0 PPE C

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