

SAFETY DATA SHEET

Section 1 - Identification

Product Identifier	CITROL 100% Active / All Natural Citrus Degreaser Deodorant (Qt.)
Other means of identification	1079
Recommended use	Degreaser.
Recommended restrictions	For commercial and industrial use only.
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	Target Organ
Physical Hazards	Flammable Liquids	3	
Health Hazards	Aspiration hazard	1	
	Sensitization, skin	1	
	Serious eye damage/eye irritation	1	
	Skin corrosion/irritation	2	
OSHA defined hazards	Not Classified.		
Label Elements			
Hazard Symbol			
Signal Word	Danger		
Hazard Statement	Flammable liquid and vapor. Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways.		
Precautionary statement			
Prevention	Avoid breathing mist or vapor. Wear protective gloves/clothing and eye/face protection. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.		
Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. In case of fire: Use appropriate media to extinguish.		
Storage	Store in a well-ventilated place. Keep cool. Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise classified (HNOC)	Not classified.		

Section 3 - Composition/Information on ingredients

Mixture			
Hazardous Components	Ingredient Name	CAS #	%
	Citrus, ext.	94266-47-4	50 - 100
	Alcohols, C12-13 Ethoxylated	66455-14-9	5 - 15
	Nonylphenol, ethoxylated	9016-45-9	5 - 10

Section 4 - First-aid Measures

Inhalation	Move to fresh air. Get medical attention if irritation persists.
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Skin contact	Remove contaminated clothing and shoes. Wash skin with soap and water. Get medical attention if irritation persists.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists.
Ingestion	Immediately rinse mouth and drink plenty of water. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. If person becomes uncomfortable seek medical advice.
Most Important symptoms /effects, acute and delayed	Irritating and may cause redness and pain. May cause an allergic skin reaction.
Indication of immediate medical attention and special treatment	Treat symptomatically.
General Information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Section 5 - Fire-fighting measures	
Suitable extinguishing media	Dry chemical, foam, carbon dioxide. Avoid using a direct stream of water.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment /instructions	Move containers from fire area if you can do it without risk. Cool material exposed to heat with water spray and remove it if no risk is involved.
Section 6 - Accidental release measures	
Personal precautions, protective equipment and emergency procedures.	Isolate area. Keep unnecessary personnel away. Ventilate the area. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
Methods and materials for containment and cleaning up	SMALL SPILLAGE: Absorb spillage with suitable absorbent material. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water. LARGE SPILLS: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Section 7 - Handling and storage	
Precautions for safe handling	Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Do not taste or swallow. Use with adequate ventilation. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS.
Conditions for safe storage, including any incompatibilities	Store away from incompatible materials. Keep container closed.
Section 8 - Exposure control/personal protection	
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Use personal protective equipment as required. Keep working clothes separately.
Appropriate engineering controls	Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear protective gloves. Nitrile gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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.
Section 9 - Physical and chemical properties	
Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Orange.
Odor	Citrus.
Odor threshold	Not available.
pH (Concentrate)	Not available.
Melting point/freezing point	Not available.

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Initial boiling point and boiling range	349 F (176.1 C)
Flash point	122 F (50 C)
Evaporation rate	0.2 (n-butyl acetate = 1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	<2 mm Hg (20 C/68 F)
Vapor density	Not available.
Relative density	0.86 ± 0.01
Relative density temperature	75 °F (23.89 °C)
Solubilities	Soluble
Partition Coefficient n-octanol/water	Not available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	< 10 cP
Viscosity Temperature	75 °F (23.89 °C)

Section 10 - Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to Avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products	None known

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion	May be harmful if swallowed. Swallowing or vomiting of the liquid may result in aspiration into the lungs.
Inhalation	Vapors and mist may irritate throat and respiratory system and cause coughing.
Skin contact	Causes skin irritation. May cause sensitization by skin contact. Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact	Causes severe eye damage.

Symptoms related to the physical, chemical and toxicological characteristics Contact may cause irritation and redness. May cause an allergic skin reaction.

Information on toxicological effects.

Acute toxicity May be harmful if swallowed.

Components	Level	Type	Code	Species	Results
Alcohols, C12-13 Ethoxylated (CAS 66455-14-9)	Acute	Dermal	LD50	Rat	> 2000 mg/kg, 2
	Acute	Dermal	LD50	Rabbit	3300 mg/kg, 24
	Acute	Inhalation	LC50	Rat	> 100 mg/m ³ , 6 > 1.6 mg/l, 4 Hc
Nonylphenol, ethoxylated (CAS 9016-45-9)	Acute	Oral	LD50	Mouse	4290 mg/kg, bw

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/ eye irritation	Causes serious eye damage.
Respiratory sensitization	Not classified.
Skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Harmful or fatal if swallowed, can enter lungs and cause damage.

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Chronic effects Prolonged or repeated contact may dry skin and cause irritation.
Further information No other specific acute or chronic health impact noted.

Section 12 - Ecological Information

Ecotoxicity This product contains a substance which is very toxic to aquatic life with long lasting effects.

Component(s)
 Alcohols, C12-13 Ethoxylated, 66455-14-9

Aquatic

EcoName	EcoCode	EcoSpecies	EcoTestResults
Crustacea	EC50	Water flea (Daphnia magna)	0.39 -0.56 mg/l, 48 hours
Fish	LC50	Flathead minnow (Pimephales promelas)	0.72 -2.7 mg/l, 96 hours

Nonylphenol, ethoxylated, 9016-45-9

Aquatic

EcoName	EcoCode	EcoSpecies	EcoTestResults
Crustacea	EC50	Daphnia magna	65 mg/l, 48 hours
Crustacea	EC50	Water flea (Daphnia magna)	12.2 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	1 - 1.8 mg/l 96 hours

Persistence and degradability The product is expected to be biodegradable.

Bioaccumulative potential Not known.

Mobility in soil Not available.

Mobility in general The product is water soluble and may spread in water systems.

Other adverse effects None known.

Section 13 - Disposal considerations

Disposal instructions Dispose in accordance with applicable federal, state, and local regulations.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused products Dispose in accordance with all applicable regulations.

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

Section 14 - Transport information

DOT

UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (CITRUS TERPINES)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B1, B52, IB3, T4, TP1, TP29
Packaging exemption	150
Packaging non bulk	203
Packaging bulk	242

IATA

UN number	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (CITRUS TERPINES)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packaging group	III
Environmental hazards	Yes
Labels required	3
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Other Information

IMDG

UN number	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (CITRUS TERPINES)
Transport hazard class(es)	3
Subsidiary class(es)	-
Packaging group	III

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Environmental hazards	Yes
Marine pollutant	
Labels required	3
EmS	F-E, S-E
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code	This substance/mixture is not intended to be transported in bulk.

Section 15 - Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)	Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not on regulatory list.
CERCLA Hazardous Substance List (40 CFR 302.4)	Not Listed
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Hazard Categories	Immediate Hazard Yes
	Delayed Hazard No
	Fire Hazard Yes
	Pressure Hazard No
	Reactivity Hazard No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	Yes
SARA 313 (TRI reporting)	Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Drug Enforcement Administration (DEA), List 1 2	Not regulated.
Exempt Chemical Mixtures (21 CFR 1310.12(c))	
DEA Exempt Chemical Mixtures Code Number	Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.

US state regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US.Massachusetts RTK - Substance List	Not regulated.
US.New Jersey Worker and Community Right-to-Know Act	Not listed.
US.Pennsylvania RTK - Hazardous Substances	Not listed.
US.Rhode Island RTK	Not regulated.
US - California Proposition 65 - Carcinogens Reproductive Toxicity (CRT): Listed substance	Not listed.

International Inventories

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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)	No
Korea	Existing Chemicals List (ECL)	No
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	No

*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).

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

Issue date	12/3/2012
Version #	1
Further information	Not available.
List of abbreviations	LD50: Lethal Dose, 50% LC50: Lethal Concentration, 50% EC50: Effective concentration, 50%
References	HSDB - Hazardous Substances Data Bank

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Disclaimer

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.