

SAFETY DATA SHEET

Section 1 - Identification


Product Identifier Earth Sense® DUAL-BLEND #2 Multi-Surface Cleaner Super Concentrate with H2O2 (Concentrate)
Other means of identification 5072
Recommended use Detergent.
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
Physical Hazards	Not Classified	
Health Hazards	Sensitization, skin	1
	Serious eye damage/eye irritation	2A
	Skin corrosion/irritation	2
OSHA defined hazards	Not Classified.	
Label Elements		
Hazard Symbol		
Signal Word	Warning	
Hazard Statement	Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction.	
Precautionary statement		
Prevention	Wear eye/face protection. Wear protective gloves. Wash thoroughly after handling. Keep out of reach of children.	
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and residues in accordance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.	

Section 3 - Composition/Information on ingredients

Mixture			
Hazardous Components	Ingredient Name	CAS #	%
	Alcohols, C9-11, ethoxylated	68439-46-3	5 - 10
	Hydrogen Peroxide	7722-84-1	4 - 8
	Citrus Terpenes	5989-27-5	0.1 - 1

Section 4 - First-aid Measures

Inhalation Move to fresh air. Get medical attention if irritation persists.
Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
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 immediately.
Ingestion Rinse mouth. Get medical attention if irritation persists.

SAFETY DATA SHEET

Most Important symptoms /effects, acute and delayed	Causes serious eye irritation. Causes skin irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Prolonged exposure may cause dermatitis. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General Information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

Section 5 - Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
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. Use water spray to keep fire-exposed containers cool.
General fire hazards	No unusual fire or explosion hazards noted.
Specific Methods	Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures.	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. 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.
Methods and materials for containment and cleaning up	This product is miscible in water. SMALL SPILLAGE: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. LARGE SPILLS: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

Section 7 - Handling and storage

Precautions for safe handling	Do not breathe the mist or vapor. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Section 8 - Exposure control/personal protection

Occupational exposure limits

US. Workplace environmental Exposure Level (WEEL) Guides

Component	Type	Value
Hydrogen Peroxide (CAS 7722-84-1)	TWA	165 mg/m ³ , 30 ppm
Citrus Terpenes (CAS 5989-27-5)	TWA	165.5 mg/m ³ , 30 ppm

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

Components	Type	Value	Form
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1.4 mg/m ³ , 1 ppm	

US. ACGIH Threshold Limit Values

Component	Type	Value	Form
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1.4 mg/m ³ , 1 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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

SAFETY DATA SHEET

Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing if conditions risk exposure.
Respiratory protection	In case of inadequate ventilation, use respiratory protection.
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. Contaminated work clothing should not be allowed out of the workplace.

Section 9 - Physical and chemical properties

Appearance	Clear liquid.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Citrus. No fragrance added.
Odor threshold	Not available.
pH	4.2 ± 0.5 (Conc) 6.2 ± 0.5 (1:64)
Melting point/freezing point	Not relevant.
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	None to boiling.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
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	Similar to water.
Vapor density	Similar to water.
Relative density	1.03 ± 0.01
Relative density temperature	75 °F (23.89 °C)
Solubilities	Complete
Partition Coefficient n-octanol/water	Not available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	<10 cSt
Viscosity Temperature	75 °F (23.89 °C)

Section 10 - Stability and reactivity

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

Section 11 - Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes skin irritation. Rash. May cause an allergic skin reaction. Dermatitis.
Information on toxicological effects.	
Acute toxicity	May cause an allergic skin reaction.

Components	Level	Type	Code	Species	Results
Citrus Terpenes (CAS 5989-27-5)	Acute	Dermal	LD50	Rabbit	5 g/kg

SAFETY DATA SHEET

Hydrogen Peroxide (CAS 7722-84-1)	Acute	Oral	LD50	Mouse	5600 - 6600 mg/kg
	Acute	Other	LD50	Mouse	1.3 g/kg
	Acute	Other	LD50	Rat	0.11 g/kg
	Acute	Dermal	LD50	Rabbit	> 2000 mg/kg, 24 Hours
	Acute	Dermal	LD50	Rat	3000 - 5480 mg/kg
	Acute	Inhalation	LC50	Rat	> 170 mg/m ³ , 4 Hours
	Acute	Oral	LD50	Rat	693.7 mg/kg

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/ eye irritation	Causes serious eye irritation.
Respiratory sensitization	This product is not expected to cause respiratory sensitization.
Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Component	Result	Comment
Citrus Terpenes (CAS 5989-27-5)	3	Not classifiable as to carcinogenicity to humans.
Hydrogen Peroxide (CAS 7722-84-1)	3	Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified.
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.

Section 12 - Ecological Information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component(s)

Alcohols, C9-11, ethoxylated, 68439-46-3

Aquatic

Acute	Crustacea	EC50	Water flea (Daphnia magna)	2.9 - 8.5 mg/l, 48 hours
	Fish	LC50	Fathead minnow (Pimephales promelas)	6 - 12 mg/l, 96 hours
	Fish	LC50	Flathead minnow (Pimephales promelas)	0.619 - 0.796 mg/l, 96 hours

Citrus Terpenes, 5989-27-5

Aquatic

Acute	Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l, 48 hours
	Fish	LC50	Flathead minnow (Pimephales promelas)	0.619 - 0.796 mg/l, 96 hours

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

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water log (Kow)

Components	Results
Citrus Terpenes (CAS 5989-27-5)	4.232

Mobility in soil No data available.

Mobility in general 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	Dispose in accordance with applicable federal, state, and local regulations.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Waste codes should be assigned by the user based on the application for which the product was used.
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	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.

SAFETY DATA SHEET

IMDG Not regulated as dangerous goods.
 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. One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D) Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.
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 Yes
 Fire Hazard No
 Pressure Hazard No
 Reactivity Hazard No

SARA 302 Extremely hazardous substance

Chemical name	CAS #	Reportable Quantity	Threshold Planning Quantity	Threshold Planning quantity, lower value	Threshold Planning quantity, upper value
Hydrogen Peroxide	7722-84-1	1000	1000 lbs.		
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.
Safe Drinking Water Act (SDWA) Not regulated.
Food and Drug Administration (FDA) Not regulated.

US state regulations

US.Massachusetts RTK - Substance List Components
Hydrogen Peroxide (CAS 7722-84-1)
US.New Jersey Worker and Community Right-to-Know Act Components
Hydrogen Peroxide (CAS 7722-84-1)
Citrus Terpenes (CAS 5989-27-5)
US.Pennsylvania RTK - Hazardous Substances Components
Hydrogen Peroxide (CAS 7722-84-1)
US.Rhode Island RTK Components
Hydrogen Peroxide (CAS 7722-84-1)
US - California Proposition 65 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.

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)	Yes
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 3/21/2015
Version # 01
Further information Meets Green Seal's requirements for acute toxicity at the as-used dilution.

SAFETY DATA SHEET

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.