

# SAFETY DATA SHEET

### 1. Product and Company Identification

Product identifier	Clean & Borfoct		
Other means of identification	Clean & Perfect		
	Not available		
Recommended use	Cleaner		
Recommended restrictions	None known.		
Manufacturer	Natural Chemistry L.P. 40 Richards Ave. Norwalk, CT 06854 US Phone: (800) 753-1233 Emergency Phone: CHEMTREC (800) 4	124-9300	
	2. Hazards Identific	ation	
Physical hazards	Not classified.		
Health hazards	Serious eye damage/eye irritation	Category 2A	
	Sensitization, skin	Category 1	
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Warning		
Hazard statement	May cause an allergic skin reaction. Cau	uses serious eye irritation.	
Precautionary statement			
Prevention		/face protection. Wear protective gloves. Wash work clothing must not be allowed out of the workplace.	
Response	If on skin: Wash with plenty of water. 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 eye irritation persists: Get medical advice/attention.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of contents/container in accordation	ance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	Not applicable.		
	3. Composition/Information	on Ingredients	

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Tetrasodium ethylenediamine tetraacetate		64-02-8	2.04
Ethoxylated nonyl phenol		9016-45-9	1.98
d-Limonene		5989-27-5	0.9

### 4. First Aid Measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation develops and persists. 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. Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

ngestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Get medical attention if symptoms occur.		
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.		
ndication of immediate nedical attention and special reatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.		
	5. Fire Fighting Measures		
Suitable extinguishing media	Dry chemical. Water spray. Carbon dioxide. Foam.		
Unsuitable extinguishing media	None known.		
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 so without risk.		
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.		
General fire hazards	No unusual fire or explosion hazards noted.		
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.		
Explosion data			
Sensitivity to mechanical impact	Not available.		
Sensitivity to static discharge	Not available.		
	6. Accidental Release Measures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. 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	This product is miscible in water. Stop the flow of material, if this is without risk.		
containment and cleaning up	Large Spills: 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.		
	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 discharge into drains, water courses or onto the ground.		
	7. Handling and Storage		
Precautions for safe handling	Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal		
Conditions for safe storage, including any incompatibilities	protective equipment. Observe good industrial hygiene practices. Use care in handling/storage. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).		
	8. Exposure Controls/Personal Protection		
Occupational exposure limits US. AIHA Workplace Enviro	nmental Exposure Level (WEEL) Guides		
Components	Type Value		
d limonene (CAS	TW/A 165.5 mg/m3		

Components	Туре	Value	
d-Limonene (CAS 5989-27-5)	TWA	165.5 mg/m3	
0000 21 0)		30 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).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	As required by employer code.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Not applicable.
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.

Appearance	Clear
Physical state	Liquid.
Form	Liquid.
Color	Pale yellow
Odor	Citrus
Odor threshold	Not available.
рН	10 - 12
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	1 - 1.02
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	8.3 - 8.5 lb/gal
Solubility(ies)	Complete
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

## 9. Physical and Chemical Properties

## 10. Stability and Reactivity

Reactivity	Reacts vigorously with acids. This product may react with oxidizing agents.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.

## **11. Toxicological Information**

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of	exposure
Ingestion	Expected to be a low ingestion hazard.
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

toxicological characteristics

#### Information on toxicological effects

Acute toxicity May cause an allergic skin reaction.

Components	Species	Test Results
d-Limonene (CAS 5989-27-5)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Inhalation LC50	Not available	
	Not available	
Oral LD50	Mouse	5600 mg/kg
2200	Rat	4400 mg/kg
Ethowylated popul phonal (CAS OC		4400 mg/kg
Ethoxylated nonyl phenol (CAS 90 Acute	116-45-9)	
Dermal		
LD50	Rabbit	2830 mg/kg
		1780 mg/kg
Oral		
LD50	Rat	2590 mg/kg
		1310 mg/kg
Tetrasodium ethylenediamine tetra	aacetate (CAS 64-02-8)	
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Not available	
Oral	Det	4050
LD50	Rat	1658 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation	٦.
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Corneal opacity value	Not available.	
Iris lesion value		
	Not available.	
Conjunctival reddening value	Not available. Not available.	
Conjunctival reddening		

Descriptores en alties accestition di					
Respiratory or skin sensitization Respiratory sensitization	n Not classified				
Skin sensitization		May cause an allergic skin reaction.			
Germ cell mutagenicity	No data availa	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Mutagenicity	No data availa	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	-	s not considered to be a carcinogen by IAF	RC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall	Evaluation of C	Carcinogenicity			
d-Limonene (CAS 5989-			fiable as to carcinogenicity to humans.		
Reproductive toxicity	This product i	s not expected to cause reproductive or de	velopmental effects.		
Teratogenicity	Not classified.				
Specific target organ toxicity - single exposure	Not classified				
Specific target organ toxicity - repeated exposure	Not classified				
Aspiration hazard	Not classified.				
Chronic effects	Not classified.				
Further information	Not available.				
Name of Toxicologically Synergistic Products	Not available.				
		12. Ecological Information			
Ecotoxicity		s not classified as environmentally hazardo t large or frequent spills can have a harmfu			
Components		Species	Test Results		
d-Limonene (CAS 5989-27-5	)				
Aquatic	-				
Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l, 48 hours		
Fish	LC50	Fathead minnow (Pimephales promelas)	0.619 - 0.796 mg/l, 96 hours		
Ethoxylated nonyl phenol (C. Aquatic	AS 9016-45-9)				
Crustacea	EC50	Water flea (Daphnia magna)	12.2 mg/l, 48 hours		
Fish	LC50	Bluegill (Lepomis macrochirus)	1 - 1.8 mg/l, 96 hours		
Tetrasodium ethylenediamin	e tetraacetate (C	AS 64-02-8)			
Algae	EC50	Algae	1.01 mg/L, 72 Hours		
Aquatic					
Crustacea	EC50	Water flea (Daphnia magna)	610 mg/l, 24 hours		
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours		
Persistence and degradability		ailable on the degradability of this product.	<b>3</b> , <b>1</b>		
Bioaccumulative potential	No data availa				
Mobility in soil	No data availa				
Mobility in general	Not available.				
Other adverse effects	No other adve	Not available. No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
	1	3. Disposal Considerations			
Disposal instructions	Collect and re	claim or dispose in sealed containers at lic ainer in accordance with local/regional/nati			
Local disposal regulations		cordance with all applicable regulations.			
Hazardous waste code	-	de should be assigned in discussion betwe	en the user, the producer and the waste		
Waste from residues / unused	Dispose of in accordance with local regulations. Empty containers or liners may retain some				

sidues / unused 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).

products

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.

#### 14. Transport Information

#### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

#### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

# 15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Canadian federal regulations Regulations and the SDS contains all the information required by the Controlled Products Regulations. Canada CEPA Schedule I: Listed substance Ethoxylated nonyl phenol (CAS 9016-45-9) Listed. Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number d-Limonene (CAS 5989-27-5) 1 TONNES Canada Priority Substances List (Second List): Listed substance Ethoxylated nonyl phenol (CAS 9016-45-9) Listed. **Canada WHMIS Ingredient Disclosure: Threshold limits** d-Limonene (CAS 5989-27-5) 1% WHMIS status Controlled WHMIS classification Class D - Division 2B WHMIS labeling This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. 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 No hazardous substance SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Safe Drinking Water Act Not regulated. (SDWA) Not regulated. Food and Drug Administration (FDA) **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 - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance Not listed.

d-Limonene (CAS 59 Ethoxylated nonyl ph	ening Levels: Listed substar 989-27-5) lenol (CAS 9016-45-9) ediamine tetraacetate (CAS	i <b>ce</b> Listed. Listed. Listed.	
US. Massachusetts RTF	K - Substance List		
Not regulated. US. Pennsylvania RTK	- Hazardous Substances		
Not regulated. US. Rhode Island RTK			
Not regulated.			
Inventory status			
Country(s) or region	Inventory name		On inventory (yes/no)*
Canada	Domestic Substances List (D	SL)	Yes
Canada	Non-Domestic Substances L	ist (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Ac	t (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGENDSevere4Serious3Moderate2Slight1Minimal0	HEALTH       * 1         FLAMMABILITY       0         PHYSICAL HAZARD       0         PERSONAL       X         The information in the sheet was written 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 and reliable. While every effort has been made to ensure full disclosure of product hazards, in and reliable. While every effort has been made to ensure full disclosure of product hazards, in and reliable. While every effort has been made to ensure full disclosure of product hazards, in and reliable. While every effort has been made to ensure full disclosure of product hazards, in and reliable. While every effort has been made to ensure full disclosure of product hazards, in and reliable. While every effort has been made to ensure full disclosure of product hazards, in the product hazards, in the product hazards.
	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	29-September-2014
Effective date	01-October-2014
Expiry date	01-October-2017
Further information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.
Prepared by	Dell Tech Laboratories, Ltd. Phone: (519) 858-5021
Other information	This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.