

**SAFETY DATA SHEET**

**Section 1 - Identification**

**Product Identifier** PERFECTION Advanced Floor Coating  
**Other means of identification** 0512  
**Recommended use** Floor finish.  
**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**

	<b>Classification</b>	<b>Category</b>
<b>Physical Hazards</b>	Not Classified	
<b>Health Hazards</b>	Not Classified	
<b>OSHA defined hazards</b>	Not Classified.	
<b>Label Elements</b>		
<b>Hazard Symbol</b>	None.	
<b>Signal Word</b>	Not Available	
<b>Hazard Statement</b>	Not available.	
<b>Precautionary statement</b>		
<b>Prevention</b>	Observe good industrial hygiene practices.	
<b>Response</b>	Wash thoroughly after handling.	
<b>Storage</b>	Store away from incompatible materials.	
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.	

**Section 3 - Composition/Information on ingredients**

**Mixture**

<b>Hazardous Components</b>	<b>Ingredient Name</b>	<b>CAS #</b>	<b>%</b>
	Tris(2-Butoxyethyl) Phosphate	78-51-3	1 - 5
	Diethylene Glycol Monoethyl Ether	111-90-0	1 - 5

**Section 4 - First-aid Measures**

**Inhalation** Move to fresh air. Get medical attention if irritation persists.  
**Skin contact** Wash skin with soap and water. Get medical attention if irritation persists.  
**Eye contact** Flush eyes thoroughly with water for at least 15 minutes. Get medical attention if irritation persists.  
**Ingestion** Rinse mouth thoroughly with water. Seek medical advice.  
**Most Important symptoms /effects, acute and delayed** Mild eye irritation.  
**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** Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.  
**Unsuitable extinguishing media** Not available.  
**Specific hazards arising from the chemical** None known.

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<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 it without risk. Use water spray to keep fire-exposed containers cool.
<b>General fire hazards</b>	This product is not flammable or combustible.

## Section 6 - Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures.</b>	Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	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.
<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 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.
<b>Conditions for safe storage, including any incompatibilities</b>	Store away from incompatible materials. Keep container closed.

## Section 8 - Exposure control/personal protection

### Occupational exposure limits

#### US. Workplace environmental Exposure Level (WEEL) Guides

Component	Type	Value
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	TWA	140 mg/m <sup>3</sup> , 25 ppm

**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. If splash potential exists, wear full face shield or chemical goggles.

#### Skin protection

**Hand protection** Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the OEL. In a confined space a supplied respirator may be required.

**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** Opaque Liquid.

**Physical state** Liquid.

**Form** Liquid.

**Color** White.

**Odor** Acrylic.

**Odor threshold** Not available.

**pH** 8.2 ± 0.3

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**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.

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Relative density	1.03 ± 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.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide.

## Section 11 - Toxicological information

### Information on likely routes of exposure

Ingestion	No adverse effects due to ingestion are expected.
Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact	May cause eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**  
May cause eye irritation. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

### Information on toxicological effects.

Acute toxicity	Not expected to be hazardous.
Skin corrosion/irritation	Prolonged or repeated contact may dry skin and cause irritation.
Serious eye damage/ eye irritation	May cause eye irritation.
Respiratory sensitization	Not classified.
Skin sensitization	Not available.
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	Not available.

## 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)

Tris(2-Butoxyethyl) Phosphate, 78-51-3

### Aquatic

Acute	Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	10.4 - 12 mg/l, 96 hours
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**Persistence and degradability**  
The product is expected to be biodegradable.

**Bioaccumulative potential**  
Not known.

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

Components	Results
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	-0.54
Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)	3.75

**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

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<b>Disposal instructions</b>	Dispose in accordance with applicable federal, state, and local regulations.
<b>Local disposal regulations</b>	Dispose of in accordance with local regulations.
<b>Hazardous waste code</b>	Waste codes should be assigned by the user based on the application for which the product was used.
<b>Waste from residues / unused products</b>	Dispose in accordance with all applicable regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## Section 14 - Transport information

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

## Section 15 - Regulatory Information

**US federal regulations** This product is not known to be 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 listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Components	Result
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	LISTED
Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)	LISTED

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard	No
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS #	% by wt.
Diethylene Glycol Monoethyl Ether	111-90-0	1 - 5
Tris(2-Butoxyethyl) Phosphate	78-51-3	1 - 5

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List**

Components	
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	
Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)	

**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	
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	
Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)	

**US.New Jersey Worker and Community Right-to-Know Act**

Components	
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	
Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)	

**US.Pennsylvania RTK - Hazardous Substances**

Components	
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	
Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)	

**US.Rhode Island RTK**

Components	
Diethylene Glycol Monoethyl Ether (CAS 111-90-0)	
Tris(2-Butoxyethyl) Phosphate (CAS 78-51-3)	

**US - California Proposition 65** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**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

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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)	Yes
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).

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

**Issue date** 5/28/2014

**Version #** 01

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