


**SAFETY DATA SHEET**

**Section 1 - Identification**

<b>Product Identifier</b>	PROLEX CDL-520 Concentrated Delimer
<b>Other means of identification</b>	1126
<b>Recommended use</b>	Descaler.
<b>Recommended restrictions</b>	For commercial and industrial use only.
<b>Manufacturer / Importer / Supplier / Distributor Information</b>	
<b>Company Name</b>	National Chemical Laboratories of PA, Inc.
<b>Address</b>	401 N. 10th Street - Philadelphia, PA 19123
<b>Telephone</b>	1 (215) 922-1200
<b>Supplier Email</b>	info@nclonline.com
<b>Contact</b>	CHEM-TEL
<b>Emergency Phone</b>	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.

	<b>Classification</b>	<b>Category</b>
<b>Physical Hazards</b>	Not Classified	
<b>Health Hazards</b>	Serious eye damage/eye irritation	1
	Skin corrosion/irritation	1
<b>OSHA defined hazards</b>	Not Classified.	
<b>Label Elements</b>		
<b>Hazard Symbol</b>		
<b>Signal Word</b>	Danger	
<b>Hazard Statement</b>	Causes severe skin burns and eye damage.	
<b>Precautionary statement</b>		
<b>Prevention</b>	Do not breathe the mist or vapor. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection.	
<b>Response</b>	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
<b>Storage</b>	Store locked up.	
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.	
<b>Hazard(s) not otherwise classified (HNOC)</b>	Not classified.	

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

<b>Mixture</b>			
<b>Hazardous Components</b>	<b>Ingredient Name</b>	<b>CAS #</b>	<b>%</b>
	Phosphoric Acid	7664-38-2	20 - 35

**Section 4 - First-aid Measures**

<b>Inhalation</b>	If respiratory irritation or distress occurs, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing stops, apply artificial respiration. CONSULT A PHYSICIAN.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Check and remove contact lenses. Continue to rinse for at least 10 minutes.
<b>Ingestion</b>	Rinse mouth thoroughly with water. 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. Get medical attention if any discomfort occurs.

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<b>Most Important symptoms /effects, acute and delayed</b>	Causes skin and eye burns.
<b>Indication of immediate medical attention and special treatment</b>	Treat symptomatically.
<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>	Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO <sub>2</sub> ) to extinguish flames. Avoid using a direct stream of water.
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire..
<b>Specific hazards arising from the chemical</b>	Fire may produce irritating, corrosive and/or toxic gases.
<b>Special protective equipment and precautions for firefighters</b>	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
<b>Fire-fighting equipment /instructions</b>	Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. In case of fire and/or explosion do not breathe fumes. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
<b>Specific Methods</b>	In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers.

## 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. 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>	Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not breathe mist or vapor. Use only with adequate ventilation. Keep container closed. 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. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Phosphoric Acid (CAS 7664-38-2)	TWA	1 mg/m <sup>3</sup>	

#### US. ACGIH Threshold Limit Values

Component	Type	Value	Form
Phosphoric Acid (CAS 7664-38-2)	STEL	3 mg/m <sup>3</sup>	
Phosphoric Acid (CAS 7664-38-2)	TWA	1 mg/m <sup>3</sup>	

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Phosphoric Acid (CAS 7664-38-2)	STEL	3 mg/m <sup>3</sup>
Phosphoric Acid (CAS 7664-38-2)	REL	1 mg/m <sup>3</sup>

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	Use personal protective equipment as required. Keep working clothes separately.
<b>Appropriate engineering controls</b>	Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities.
<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>	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.
<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.

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## Section 9 - Physical and chemical properties

<b>Appearance</b>	Clear.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Yellow-Green.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	< 1
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	214 °F (101.1 °C)
<b>Flash point</b>	> 214 °F (> 101.1 °C)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Similar to water.
<b>Vapor density</b>	Similar to water.
<b>Relative density</b>	1.20 ± 0.01
<b>Relative density temperature</b>	75 °F (23.9 °C)
<b>Solubilities (water)</b>	100 % Soluble.
<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Auto-ignition temperature</b>	Not Available
<b>Decomposition temperature</b>	Not Available
<b>Viscosity</b>	< 10 cP
<b>Viscosity Temperature</b>	75 °F (23.9 °C)

## Section 10 - Stability and reactivity

<b>Reactivity</b>	Contact with certain metals may release flammable hydrogen gas. Reacts with hypochlorite containing products to release chlorine gas.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Contact with certain metals (i.e. Aluminum, Zinc, Tin, Brass, Bronze) liberates hydrogen gas which can cause a flash fire. Do not mix with chlorine bleach or other chemicals.
<b>Incompatible materials</b>	Strong alkalis. Oxidizing agents. Chlorinated compounds.
<b>Hazardous Decomposition Products</b>	Phosphorus oxides.

## Section 11 - Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	May cause digestive tract burns.
<b>Inhalation</b>	May cause burns in mucous membranes, throat, esophagus and stomach.
<b>Skin contact</b>	Causes skin burns.
<b>Eye contact</b>	Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Causes skin and eye burns.

### Information on toxicological effects.

**Acute toxicity** May be harmful if swallowed.

Components	Level	Type	Code	Species	Results
Phosphoric Acid (CAS 7664-38-2)	Acute	Dermal	LD50	Rabbit	2740 mg/kg
	Acute	Inhalation	LC50	Rat	850 mg/m <sup>3</sup> , 4 Hours, 25.5 mg/m <sup>3</sup>
	Acute	Oral	LD50	Rat	1530 mg/kg

<b>Skin corrosion/irritation</b>	Causes skin burns.
<b>Serious eye damage/ eye irritation</b>	Causes serious eye damage.

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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 classified.

## Section 12 - Ecological Information

<b>Ecotoxicity</b>	The product contains a substance which is toxic to aquatic organisms. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.			
<b>Component(s)</b>	Phosphoric Acid, 7664-38-2			
<b>Aquatic</b>				
Level	Type	Code	Species	Test Results
Acute	Fish	LC50	Mosquitofish (Gambusia)	138 mg/l, 96 h
<b>Persistence and degradability</b>	The product is expected to be biodegradable.			
<b>Bioaccumulative potential</b>	Not known.			
<b>Mobility in soil</b>	Not available.			
<b>Mobility in general</b>	The product is water soluble and may spread in water systems.			
<b>Other adverse effects</b>	No specific biodegradation test data located. While acidity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems.			

## Section 13 - Disposal considerations

<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>	D002: Corrosive waste.
<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

### DOT

UN number	UN1805
Proper shipping name	PHOSPHORIC ACID SOLUTION
Transport hazard class(es)	8
Packing group	III
Special precautions for user	Not available.
Special provisions	A7, IB3, N34, T4, TP1
Packaging exemption	154
Packaging non bulk	203
Packaging bulk	241

### IATA

UN number	UN1805
UN proper shipping name	PHOSPHORIC ACID SOLUTION
Transport hazard class(es)	8
Packaging group	III
Environmental hazards	No
ERG Code	8L
Special precautions for user	Not available.
Other Information	

### IMDG

UN number	UN1805
UN proper shipping name	PHOSPHORIC ACID SOLUTION
Transport hazard class(es)	8
Packaging group	III

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<b>Environmental hazards</b>	No
<b>Marine pollutant</b>	
<b>EmS</b>	F-A, S-B
<b>Special precautions for user</b>	Not available.
<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

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
<b>TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)</b>	Not regulated.	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not on regulatory list.	
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>		
Components		Result
Phosphoric Acid (CAS 7664-38-2)		LISTED
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>		
<b>Hazard Categories</b>	Immediate Hazard	Yes
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No
<b>SARA 302 Extremely hazardous substance</b>	No	
<b>SARA 311/312 Hazardous chemical</b>	Yes	
<b>SARA 313 (TRI reporting)</b>	Not regulated.	
<b>Other federal regulations</b>		
<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List</b>	Not regulated.	
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Not regulated.	
<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.	
<b>Food and Drug Administration (FDA)</b>	Not regulated.	
<b>US state regulations</b>		
<b>US.Massachusetts RTK - Substance List</b>	Components	
	Phosphoric Acid (CAS 7664-38-2)	
<b>US.New Jersey Worker and Community Right-to-Know Act</b>	Components	
	Phosphoric Acid (CAS 7664-38-2)	
<b>US.Pennsylvania RTK - Hazardous Substances</b>	Components	
	Phosphoric Acid (CAS 7664-38-2)	
<b>US.Rhode Island RTK</b>	Components	
	Phosphoric Acid (CAS 7664-38-2)	
<b>US - California Proposition 65</b>	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)	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).

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

<b>Revision date</b>	1/17/2018
<b>Version #</b>	02

## **SAFETY DATA SHEET**

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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.