

# SAFETY DATA SHEET

	1. Product and Company Ident	tification		
Product identifier	Pool Perfect Max with Phos Free			
Other means of identification	Not available			
Recommended use	Pool Water Treatment			
Recommended restrictions	None known.			
Manufacturer information	NC Brands L.P. 40 Richards Ave. Norwalk, CT 06854 US Phone: (800) 753-1233 Emergency Phone: CHEMTREC (800) 424-9300			
Supplier	See above.			
	2. Hazards Identificatio	n		
Physical hazards	Not classified.			
Health hazards	Serious eye damage/eye irritation	Category 2		
Environmental hazards	Not classified.			
WHMIS 2015 defined hazards Label elements	Not classified			
Signal word	Warning			
Signal word	Warning			
Hazard statement	Causes serious eye irritation.			
Precautionary statement	Week therewakly ofter headling Weer events	staation		
Prevention Response	Wash thoroughly after handling. Wear eye pro IF IN EYES: Rinse cautiously with water for se and easy to do. Continue rinsing. If eye irritati	everal minutes. Remove cont		
Storage	and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Store away from incompatible materials.			
Disposal	Dispose of waste and residues in accordance with local authority requirements.		ents.	
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known			
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known			
Hazard(s) not otherwise classified (HNOC)	None known.			
Supplemental information	Not applicable.			
	3. Composition/Information on Ir	ngredients		
Mixture				
Chemical name	Common name and synonyms	CAS number	%	
1,2-Ethanediamine, polymer wi (chloromethyl)oxirane and N-methylmethanamine	th	42751-79-1	1-5*	
		C0400 4C 0	4 =+	

 
 Alcohols, C9-11, ethoxylated
 68439-46-3
 1-5\*

 Aluminum chlorhydrate
 12042-91-0
 3-7\*

 Lanthanum Chloride (lacl3), Hydrate
 20211-76-1
 3-7\*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

\*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret. US GHS: The exact percentage (concentration) of composition has been withheld as a trade

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

	4. First Aid Measures	
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	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.	
Ingestion	Rinse mouth. Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convuls Obtain medical attention.	
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.	
Indication of immediate medical attention and special treatment 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. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.	
	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 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: Hydrogen chloride. Oxides of carbon.	
	6. Accidental Release Measures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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	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 contact with eyes, skin and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.	
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).	

## 8. Exposure Controls/Personal Protection

-	cupational Health & Safety Code		
Components	Туре	Value	
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	2 mg/m3	
Canada. British Columbia Safety Regulation 296/97,		imits for Chemical Substances, C	-
Components	Туре	Value	Form
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	1 mg/m3	Respirable.
Canada. Manitoba OELs (f Components	Reg. 217/2006, The Workplace Sa Type	fety And Health Act) Value	Form
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	1 mg/m3	Respirable fraction.
Canada. Ontario OELs. (C Components	ontrol of Exposure to Biological Type	or Chemical Agents) Value	Form
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	1 mg/m3	Respirable fraction.
Canada. Quebec OELs. (M Components	linistry of Labor <i>-</i> Regulation Res Type	specting the Quality of the Work E Value	Environment)
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	2 mg/m3	
US. ACGIH Threshold Limi Components	t Values Type	Value	Form
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	1 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	2 mg/m3	
ological limit values	No biological exposure limits n	oted for the ingredient(s).	
posure guidelines	Chemicals listed in section 3 th ACGIH or OSHA PEL.	at are not listed here do not have e	stablished limit values for
propriate engineering ntrols	should be matched to condition or other engineering controls to	ally 10 air changes per hour) should ns. If applicable, use process enclos o maintain airborne levels below rec established, maintain airborne level	sures, local exhaust ventilation ommended exposure limits. If
lividual protection measures	, such as personal protective ec	quipment	
Eye/face protection	Wear safety glasses with side s		
Skin protection			
Hand protection	Rubber gloves. Confirm with a	reputable supplier first.	
Other	Wear suitable protective clothir		
Respiratory protection		n, wear suitable respiratory equipm	ent.
Thermal hazards	Not applicable.		
neral hygiene nsiderations	Always observe good personal	hygiene measures, such as washir d/or smoking. Routinely wash work ants.	

Appearance	Liquid
Physical state	Liquid.
Form	Liquid
Color	Amber
Odor	Not available.
Odor threshold	Not available.
рН	2 - 5

Melting point/freezing pointNot available.Initial boiling point and boiling rangeNot available.Pour pointNot available.Specific gravity1 - 1.1Partition coefficient (n-octanol/water)Not available.Flash pointNot available.Evaporation rateNot available.Flammability (solid, gas)Not available.Upper/lower flammability or explosive limitsNot available.Flammability limit - lower (%)Not available.Flammability limit - lower (%)Not available.Explosive limit - lower (%) Explosive limit - lower (%)Not available.Vapor pressureNot available.Vapor densityNot available.Vapor densityNot available.	
rangePour pointNot available.Specific gravity1 - 1.1Partition coefficient (n-octanol/water)Not available.Flash pointNot available.Evaporation rateNot available.Evaporation rateNot available.Flammability (solid, gas)Not applicable.Upper/lower flammability or expl-sive limitsNot available.Flammability limit - lower (%)Not available.Flammability limit - lower (%)Not available.Explosive limit - lower (%)Not available.Explosive limit - lower (%)Not available.Vapor pressureNot available.Vapor pressureNot available.	
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Flammability (solid, gas)       Not applicable.         Upper/lower flammability or explosive limits         Flammability limit - lower       Not available.         (%)       Not available.         Flammability limit - upper       Not available.         (%)       Not available.         Explosive limit - lower (%)       Not available.         Explosive limit - upper (%)       Not available.         Vapor pressure       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 Not available.	
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(%) Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not available.	
Explosive limit - upper (%)Not available.Vapor pressureNot available.	
Vapor pressure Not available.	
Vapor density Not available.	
Relative density Not available.	
Solubility(ies) Complete	
Auto-ignition temperature Not available.	
Decomposition temperature Not available.	
Viscosity Not available.	
Other information	
Density 8.00 - 9.00	
10. Stability and Reactivity	
Reactivity May react with strong bases or oxidizing agents.	
Possibility of hazardous No dangerous reaction known under conditions of normal use. reactions	
Chemical stability Material is stable under normal conditions.	
Conditions to avoid Contact with incompatible materials.	
Incompatible materials Strong oxidizing agents.	
Hazardous decomposition May include and are not limited to: Oxides of carbon. Hydrogen chloride. products	
11. Toxicological Information	
Routes of exposure Inhalation. Eye contact. Skin contact. Ingestion.	
Information on likely routes of exposure	
Ingestion May cause stomach distress, nausea or vomiting.	
Inhalation Prolonged inhalation may be harmful.	
Skin contact May cause irritation.	
Eye contact Causes serious eye irritation.	
Symptoms related to the Symptoms may include stinging, tearing, redness, swelling, and blurred vision. physical, chemical and toxicological characteristics	
Information on toxicological effects	
Acute toxicity	
Components Species Test Results	
1,2-Ethanediamine, polymer with (chloromethyl)oxirane and N-methylmethanamine (CAS 42751-79-1) Acute	
Dermal	
LD50 Not available	
Inhalation LC50 Not available	

Components	Species	Test Results
Oral LD50	Not available	
Alcohols, C9-11, ethoxylated (CAS	S 68439-46-3)	
Acute		
Dermal LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA 2216 mg/kg, 24 Hours, ECHA 2000 mg/kg, 24 Hours, ECHA
	Rat	> 5000 mg/kg, HMIRA > 2000 mg/kg, 24 Hours, ECHA
Inhalation LC50	Rat	<ul> <li>&gt; 1600 mg/m3, 4 Hours, ECHA</li> <li>&gt; 100 mg/m³, 6 hours, ECHA</li> <li>&gt; 20 mg/L, 1 hours, Shell</li> <li>&gt; 1.6 mg/L, 4 Hours, ECHA</li> </ul>
Oral		
LD50	Rat	<ul> <li>&gt; 5050 mg/kg, ECHA</li> <li>5130 mg/kg, ECHA</li> <li>4600 mg/kg, ECHA</li> <li>3488 mg/kg, ECHA</li> <li>1400 mg/kg, Air products</li> <li>1378 mg/kg, SAX</li> </ul>
Aluminum chlorhydrate (CAS 1204	42-91-0)	for o highlig, or vi
Acute	42-01-0)	
Dermal		
LD50	Rat	> 2000 mg/kg, 21 Days, ECHA > 2000 mg/kg, 24 Hours, ECHA
Inhalation LC50 Oral	Not available	
LD50	Rat	> 2000 mg/kg, ECHA, male rat 9187 mg/kg, ECHA, female rat
Lanthanum Chloride (lacl3), Hydra Acute	ate (CAS 20211-76-1)	
Dermal LD50	Not available	
Inhalation LC50 Oral	Not available	
LD50	Rat	4184 mg/kg, RTECS
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value Serious eye damage/eye irritation	Not available. Causes serious eye irritation.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	

Recover days	Not available.			
Respiratory or skin sensitization				
Canada - Alberta OELs: Irrit				
Aluminum chlorhydrate (				
Respiratory sensitization		Not available.		
Skin sensitization	-	This product is not expected to cause skin sensitization.		
Mutagenicity	mutagenic or	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product i	is not considered to be a carcinogen	by IARC, ACGIH, NTP or OSHA.	
US. OSHA Specifically Regu Not listed.	ulated Substand	ces (29 CFR 1910.1001-1050)		
Reproductive toxicity	This product i	is not expected to cause reproductive	e or developmental effects.	
Teratogenicity	Not available.			
Specific target organ toxicity - single exposure	Not classified			
Specific target organ toxicity - repeated exposure	Not classified			
Aspiration hazard	Not available.			
Chronic effects	Prolonged inh	nalation may be harmful.		
		12. Ecological Information		
Ecotoxicity	See below			
Ecotoxicological data Components		Species	Test Results	
Alcohols, C9-11, ethoxylated (CAS	S 68439-46-3)			
Fish		Rainbow Trout	70.7 mg/L, 96 Hours	
Aquatic Crustacea	EC50	Water flea (Daphnia magna)	2.9 - 8.5 mg/L, 48 hours	
Fish	LC50	Fathead minnow (Pimephales pro	<b>0</b>	
Persistence and degradability	No data is ava	ailable on the degradability of this pro	oduct.	
Bioaccumulative potential	No data availa			
Mobility in soil				
Mobility in general	Not available.			
Other adverse effects			ne depletion, photochemical ozone creation tential) are expected from this component.	
		13. Disposal Considerations	i	
Disposal instructions		Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in ac	cordance with all applicable regulation	ons.	
Hazardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	product residu	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).		
Contaminated packaging			waste handling site for recycling or disposal. due, follow label warnings even after container is	
		14. Transport Information		
Transport of Dangerous Goods (TDG) Proof of Classification		oods Regulations. If applicable, the	ections 2.1 – 2.8 of the Transportation of technical name and the classification of the	
	· · ···			

Not regulated as dangerous goods.

## 15. Regulatory Information

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Canadian federal regulations	This product has been classifi contains all the information re	ied in accordance with the hazard criteria of the HPR and the SDS quired by the HPR.
Export Control List (CEPA 1	999, Schedule 3)	
Not listed. Greenhouse Gases		
Not listed. Precursor Control Regulatio	ons	
Not regulated.		
WHMIS 2015 Exemptions	Not applicable	
US federal regulations		Chemical" as defined by the OSHA Hazard Communication
TSCA Section 12(b) Export   Not regulated.	Notification (40 CFR 707, Subp	pt. D)
CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
	hyl ether (CAS 111-90-0)	Listed.
US. OSHA Specifically Regu	lated Substances (29 CFR 19	10.1001-1050)
Not listed.		
Superfund Amendments and Re	authorization Act of 1986 (SA	RA)
Hazard categories	Immediate Hazard - Yes	
	Delayed Hazard - No Fire Hazard - No	
	Pressure Hazard - No	
CADA 200 Estramali	Reactivity Hazard - No	
SARA 302 Extremely hazardous substance	No	
SARA 311/312 Hazardous chemical	No	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
-	112 Hazardous Air Pollutants	s (HAPs) List
Diethylene glycol monoet	hyl ether (CAS 111-90-0) 112(r) Accidental Release Pro	
Not regulated.		
US state regulations		
US - California Hazardous S	ubstances (Director's): Listed	substance
Aluminum chlorhydrate ( US - Illinois Chemical Safety		Listed.
Diethylene glycol monoet US - Louisiana Spill Reporti	hyl ether (CAS 111-90-0) ng: Listed substance	
Diethylene glycol monoet US - Minnesota Haz Subs: L	hyl ether (CAS 111-90-0) isted substance	Listed.
1 13	e, beta-D-fructofuranosyl (CAS	Listed.
57-50-1) Aluminum chlorhydrate ((	CAS 12042-91-0)	Listed.
	hyl ether (CAS 111-90-0)	Listed.
US - New Jersey RTK - Sub		
Diethylene glycol monoe US - Texas Effects Screenir	thyl ether (CAS 111-90-0) ng Levels: Listed substance	
	ner with (chloromethyl)oxirane	Listed.
and N-methylmethanamir Alcohols, C9-11, ethoxyla		Listed.
	hyl ether (CAS 111-90-0)	Listed.
US. Massachusetts RTK - S	ubstance List	
	e, beta-D-fructofuranosyl (CAS 5 Community Right-to-Know A	
	hyl ether (CAS 111-90-0) nd Community Right-to-Know	Law
•	e, beta-D-fructofuranosyl (CAS 5	
Aluminum chlorhydrate (		

Diethylene glycol monoethyl ether (CAS 111-90-0)

- US. Rhode Island RTK
  - alpha-D-Glucopyranoside, beta-D-fructofuranosyl (CAS 57-50-1)
- US. California Proposition 65 Not Listed.

#### Inventory status

Country(s) or region	Inventory name (	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (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

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Disclaimer

	10. Out	
HEALTH	/ 1	
FLAMMABILITY	0	
PHYSICAL HAZA		
PERSONAL PROTECTION	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 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.

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Prepared by	Dell Tech Laboratories Ltd. Phone: (519) 858-5021
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.