

# SAFETY DATA SHEET

# 1. Product and Company Identification

Product identifier	Pool Perfect Plus Phosfree	
Other means of identification	Not available	
Recommended use	Water cleaning compound	
Recommended restrictions	None known.	
Manufacturer information	NC Brands 40 Richards Ave. Norwalk, CT 06854 US Phone: (800) 753-1233 Emergency Phone: CHEMTREC (800) 424-9300	
Supplier	See above.	
	2. Hazards Identification	
Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation Category 2A	
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	
Label elements		
Signal word	Warning	
Hazard statement	Causes serious eye irritation.	
Precautionary statement		
Prevention	Wash thoroughly after handling. Wear eye protection/face protection.	
Response	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 waste and residues in accordance with local authority requirements.	
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 Ingredients	

Mixture		
Common name and synonyms	CAS number	%
	20211-76-1	2.73
	68439-46-3	1.58
	Common name and synonyms	20211-76-1

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

	4. First Aid Measures
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation 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 to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. 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. 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.
	5. Fire Fighting Measures
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide.
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: Oxides of sulfur. Oxides of carbon. Hydrogen chloride.
	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. 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 prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage. Avoid contact with eyes, skin and clothing.
Conditions for safe storage, including any incompatibilities	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	No exposure limits noted for ingredient(s).
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.
Individual protection measures, Eye/face protection	such as personal protective equipment Wear safety glasses with side shields (or goggles).
Skin protection Hand protection	Impervious gloves. Confirm with reputable supplier first.

Other	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
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.
	9. Physical and Chemical Properties
-	

	10. Stability and Reactivity
Viscosity	Not available.
Decomposition temperature	Not available.
Auto-ignition temperature	Not available.
Solubility(ies)	Complete
Relative density	8.3 - 9.2 lb/gal
Vapor density	Not available.
Vapor pressure	Not available.
Explosive limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Flammability limit - lower (%)	Not available.
Upper/lower flammability or exp	losive limits
Flammability (solid, gas)	Not applicable.
Evaporation rate	Not available.
Flash point	Not available.
Partition coefficient (n-octanol/water)	Not available.
Specific gravity	1 - 1.1
Pour point	Not available.
Initial boiling point and boiling range	Not available.
Melting point/freezing point	Not available.
рН	2.1 - 2.3
Odor threshold	Not available.
Odor	Not available.
Color	Amber
Form	Liquid.
Physical state	Liquid.
Appearance	Cloudy

Reactivity	This product may react with strong alkalies.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents. Alkaline materials.
Hazardous decomposition products	May include and are not limited to: Oxides of sulphur. Oxides of carbon. Hydrogen chloride.

# 11. Toxicological Information

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

May cause stomach distress, nausea or vomiting.

- Information on likely routes of exposure
  - Ingestion

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

## Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Alcohols, C9-11, ethoxylated (CA	S 68439-46-3)	
Acute		
Dermal	Rabbit	
LD50	Rabbi	> 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	> 1600 mg/m3, 4 Hours, ECHA
		> 100 mg/m³, 6 hours, ECHA
		> 20 mg/L, 1 hours, Shell
		> 1.6 mg/L, 4 Hours, ECHA
Oral		
LD50	Rat	> 5050 mg/kg, ECHA
		5130 mg/kg, ECHA
		4600 mg/kg, ECHA
		3488 mg/kg, ECHA
		1400 mg/kg, Air products
		1378 mg/kg, SAX
Lanthanum Chloride (lacl3), Hydr	rate (CAS 20211-76-1)	0.0
Acute		
Dermal		
Donnai		
LD50	Not available	
LD50 Inhalation		
LD50	Not available Not available	
LD50 Inhalation LC50 Oral	Not available	
LD50 Inhalation LC50		4184 mg/kg, Sigma Aldrich
LD50 Inhalation LC50 Oral LD50	Not available	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes	Not available Rat Prolonged skin contact may cause tempor Not available.	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes Erythema value	Not available Rat Prolonged skin contact may cause tempor	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes Erythema value Oedema value	Not available Rat Prolonged skin contact may cause tempor Not available. Not available. Not available.	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes Erythema value Oedema value Serious eye damage/eye	Not available Rat Prolonged skin contact may cause tempor Not available. Not available.	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes Erythema value Oedema value Serious eye damage/eye	Not available Rat Prolonged skin contact may cause tempor Not available. Not available. Not available. Causes serious eye irritation.	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes Erythema value Oedema value Serious eye damage/eye rritation Corneal opacity value Iris lesion value	Not available Rat Prolonged skin contact may cause tempor Not available. Not available. Causes serious eye irritation. Not available. Not available. Not available.	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes Erythema value Oedema value Serious eye damage/eye rritation Corneal opacity value	Not available Rat Prolonged skin contact may cause tempor Not available. Not available. Not available. Causes serious eye irritation.	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes Erythema value Oedema value Serious eye damage/eye irritation Corneal opacity value Iris lesion value Conjunctival reddening	Not available Rat Prolonged skin contact may cause tempor Not available. Not available. Causes serious eye irritation. Not available. Not available. Not available. Not available.	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes Erythema value Oedema value Serious eye damage/eye irritation Corneal opacity value Iris lesion value Conjunctival reddening value	Not available Rat Prolonged skin contact may cause tempor Not available. Not available. Causes serious eye irritation. Not available. Not available. Not available. Not available.	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes Erythema value Oedema value Oedema value Serious eye damage/eye irritation Corneal opacity value Iris lesion value Iris lesion value Conjunctival reddening value Conjunctival oedema value Recover days	Not available Rat Prolonged skin contact may cause tempor Not available. Not available. Causes serious eye irritation. Not available. Not available. Not available. Not available. Not available. Not available.	
LD50 Inhalation LC50 Oral LD50 Skin corrosion/irritation Exposure minutes Erythema value Oedema value Serious eye damage/eye irritation Corneal opacity value Iris lesion value Conjunctival reddening value Conjunctival oedema value	Not available Rat Prolonged skin contact may cause tempor Not available. Not available. Causes serious eye irritation. Not available. Not available. Not available. Not available. Not available. Not available.	ary irritation.

Mutagenicity	No data available to indicate product or mutagenic or genotoxic.	r any components present at greater than 0.1% are	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
Canada - Manitoba OELs: ca	•	<b>3 1 1 1</b>	
SUCROSE (CAS 57-50-1		ssifiable as a human carcinogen. <b>1050)</b>	
Reproductive toxicity	This product is not expected to cause r	eproductive or developmental 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.		
	12. Ecological Info	rmation	
Ecotoxicity	See below		
Ecotoxicological data			
Components	Species	Test Results	
Alcohols, C9-11, ethoxylated (CAS Fish	S 68439-46-3) Rainbow Trout	70.7 mg/L, 96 Hours	
<b>Aquatic</b> Crustacea	EC50 Water flea (Daphnia ma	agna) 2.9 - 8.5 mg/L, 48 hours	
		phales promelas) 6 - 12 mg/L, 96 hours	
	, , , , , , , , , , , , , , , , , , ,		
Persistence and degradability	No data is available on the degradabilit		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available. Not available.		
Mobility in general			
Other adverse effects	No other adverse environmental effects potential, endocrine disruption, global v	s (e.g. ozone depletion, photochemical ozone creation warming potential) are expected from this component.	
	13. Disposal Consid	lerations	
Disposal instructions		d containers at licensed waste disposal site. Dispose of local/regional/national/international regulations.	
Local disposal regulations	Dispose in accordance with all applicat	ole regulations.	
Hazardous waste code	disposal company.	discussion between the user, the producer and the waste	
Waste from residues / unused products	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		n approved waste handling site for recycling or disposal. roduct residue, follow label warnings even after container is	
	14. Transport Infor	mation	
	-		
Transport of Dangerous Goods (TDG) Proof of Classification	Regulations, we certify that the classific	14-152) of the Transportation of Dangerous Goods cation of this product is correct as of the SDS date of issue.	
U.S. Department of Transportati Not regulated as dangerous g			
Transportation of Dangerous Go	oods (TDG - Canada)		
Not regulated as dangerous g		motion	
Canadian fodoral regulations	15. Regulatory Info		
Canadian federal regulations	contains all the information required by	cordance with the hazard criteria of the HPR and the SDS the HPR.	
Export Control List (CEPA 1 Not listed.	1999, Schedule 3)		

Greenhouse Gases		
Not listed. Precursor Control Regulatio	ns	
Not regulated.		
WHMIS 2015 Exemptions	Not applicable	
US federal regulations	This product is a "Hazardous Standard, 29 CFR 1910.1200.	Chemical" as defined by the OSHA Hazard Communication
TSCA Section 12(b) Export N Not regulated.	lotification (40 CFR 707, Subp	ot. D)
CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Diethylene glycol monoeth		Listed. 10.1001-1050)
Superfund Amendments and Rea	authorization Act of 1986 (SA)	
Hazard categories	Immediate Hazard - Yes	
	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) Not regulated.		
Other federal regulations		
-	112 Hazardous Air Pollutants	(HAPs) List
Diethylene glycol monoeth		
	112(r) Accidental Release Pre	evention (40 CFR 68.130)
Not regulated.	Hazardous substance	
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)		
US state regulations		
US - Illinois Chemical Safety	Act: Listed substance	
Diethylene glycol monoeth US - Louisiana Spill Reportir	, , , , , , , , , , , , , , , , , , ,	
Diethylene glycol monoeth US - Minnesota Haz Subs: Li	nyl ether (CAS 111-90-0)	Listed.
alpha-D-Glucopyranoside 57-50-1)	, beta-D-fructofuranosyl (CAS	Listed.
Diethylene glycol monoeth US - New Jersey RTK - Subs		Listed.
Diethylene glycol monoeth US - Texas Effects Screening		
Alcohols, C9-11, ethoxyla		Listed.
alpha-D-Glucopyranoside 57-50-1)	, beta-D-fructofuranosyl (CAS	Listed.
Diethylene glycol monoeth US. Massachusetts RTK - Su		Listed.
	, beta-D-fructofuranosyl (CAS 5 Community Right-to-Know A	
Diethylene glycol monoeth US. Pennsylvania Worker an	nyl ether (CAS 111-90-0) d Community Right-to-Know	Law
alpha-D-Glucopyranoside Diethylene glycol monoeth US. Rhode Island RTK	, beta-D-fructofuranosyl (CAS 5 nyl ether (CAS 111-90-0)	7-50-1)
	, beta-D-fructofuranosyl (CAS 5	7-50-1)
US. California Proposition 6	2	,
-	later and Taxia Enforcement A	t of 1000 (Dropposition CE); This motorial is not known to contain

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.

### Inventory status

## Country(s) or region Canada Canada

#### Inventory name

Domestic Substances List (DSL)

No

Yes

Non-Domestic Substances List (NDSL)

United States & Puerto Rico

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

16. Other Information LEGEND HEALTH 1 1 0 0 FLAMMABILITY 4 Severe 0 1 Serious 3 PHYSICAL HAZARD 0 Moderate 2 1 Slight PERSONAL Х 0 Minimal PROTECTION Disclaimer 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,

	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.

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