

SAFETY DATA SHEET

1. Product and Company Identification

	1. Product and Company Ident	incation	
Product identifier	Clarify		
Other means of identification	Not available		
Recommended use	Pool Care		
Recommended restrictions	None known.		
Manufacturer information	NC Brands 40 Richards Ave. Norwalk, CT 06854 US Phone: (800) 753-1233 Emergency Phone: CHEMTREC (800) 424-93	300	
Supplier	See above.		
	2. Hazards Identification	n	
Physical hazards	Not classified.		
Health hazards	Not classified.		
Environmental hazards	Not classified.		
WHMIS 2015 defined hazards	Not classified		
Label elements	Not diassince		
Hazard symbol	None.		
-			
Signal word	None.	- 16 41	
Hazard statement	The mixture does not meet the criteria for clas	SIFICATION.	
Precautionary statement			
Prevention	Observe good industrial hygiene practices.		
Response	Wash hands after handling.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of waste and residues in accordance	with local authority requirem	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	None.		
	3. Composition/Information on Ir	ngredients	
Mixture			
Chemical name	Common name and synonyms	CAS number	%
Acetic acid		64-19-7	1.5
Composition comments	Non-hazardous by WHMIS/OSHA criteria		
	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 w	• • •	
Eye contact	Flush with cool water. Remove contact lenses medical attention if irritation persists.	s, if applicable, and continue	flushing. Obtain
Ingestion	Rinse mouth. Do not induce vomiting. If vomiti reduce risk of aspiration. Never give anything Obtain medical attention.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary	rirritation.	
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Treat patient symptomatically.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

	5. Fire Fighting	Measures
Suitable extinguishing media	Water fog. Foam. Dry chemical por	wder. Carbon dioxide.
Jnsuitable extinguishing nedia	Do not use water jet as an extingui	isher, as this will spread the fire.
Specific hazards arising from he chemical	During fire, gases hazardous to he	alth may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus	s and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if yo	ou can do so without risk.
Specific methods	Use standard firefighting procedure	es and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazar	ds noted.
lazardous combustion products	May include and are not limited to:	Oxides of carbon.
	6. Accidental Relea	ase Measures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away	y. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	possible. Cover with plastic sheet t	rial, if this is without risk. Dike the spilled material, where this is to prevent spreading. Absorb in vermiculite, dry sand or earth g product recovery, flush area with water.
	Small Spills: Wipe up with absorbe remove residual contamination.	ent material (e.g. cloth, fleece). Clean surface thoroughly to
	Never return spills to original conta	iners for re-use. For waste disposal, see section 13 of the SDS
Environmental precautions	Do not discharge into lakes, strean	-
	7. Handling an	d Storage
Precautions for safe handling	Avoid prolonged exposure. Wash t practices. When using do not eat o	horoughly after handling. Observe good industrial hygiene or drink.
Conditions for safe storage, ncluding any incompatibilities		ainer. Store away from incompatible materials (see Section 10
	8. Exposure Controls/P	ersonal Protection
Occupational exposure limits		
	upational Health & Safety Code, So	chedule 1, Table 2)
Components	Туре	Value
Acetic acid (CAS 64-19-7)	STEL	37 mg/m3 15 ppm
	TWA	25 mg/m3 10 ppm
Canada. British Columbia O Safety Regulation 296/97, as		its for Chemical Substances, Occupational Health and
Components	Туре	Value
Acetic acid (CAS 64-19-7)	STEL	15 ppm

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

TWA

Components	Туре	Value	
Acetic acid (CAS 64-19-7)	STEL	15 ppm	
	TWA	10 ppm	

10 ppm

Components	ntrol of Exposure to Biological or C Type	Value
Acetic acid (CAS 64-19-7)	STEL	15 ppm
	TWA	10 ppm
Canada Quebec OELs (Mi	nistry of Labor Bogulation Bospos	ting the Quality of the Work Environment)
Components	Type	Value
Acetic acid (CAS 64-19-7)	STEL	37 mg/m3
		15 ppm
	TWA	25 mg/m3
		10 ppm
US. OSHA Table Z-1 Limits	for Air Contaminants (29 CFR 1910.	.1000)
Components	Туре	Value
Acetic acid (CAS 64-19-7)	PEL	25 mg/m3
		10 ppm
US. ACGIH Threshold Limit	t Values	
Components	Туре	Value
Acetic acid (CAS 64-19-7)	STEL	15 ppm
	TWA	10 ppm
US. NIOSH: Pocket Guide t	o Chemical Hazards	
Components	Туре	Value
Acetic acid (CAS 64-19-7)	STEL	37 mg/m3
		15 ppm
	TWA	25 mg/m3
		10 ppm
logical limit values	No biological exposure limits noted	
propriate engineering htrols	should be matched to conditions. If or other engineering controls to mai	10 air changes per hour) should be used. Ventilation rates applicable, use process enclosures, local exhaust ventilation intain airborne levels below recommended exposure limits. I blished, maintain airborne levels to an acceptable level.
ividual protection measures	, such as personal protective equip	ment
Eye/face protection	Wear safety glasses with side shield	ds (or goggles).
Skin protection		
Hand protection	Impervious gloves. Confirm with re	putable supplier first.
Other	Wear suitable protective clothing. A	s required by employer code.
Respiratory protection	Respirator should be selected by ar professional following requirements	ay be exceeded, use an approved NIOSH respirator. nd used under the direction of a trained health and safety found in OSHA's respirator standard (29 CFR 1910.134), ard for respiratory protection (Z88.2).
Thermal hazards	Not applicable.	
neral hygiene nsiderations		iene measures, such as washing after handling the material smoking. Routinely wash work clothing and protective . When using do not eat or drink.
	9. Physical and Chem	nical Properties
pearance	Clear	
/sical state	Liquid.	
m	Liquid.	
or	Blue	
or	Not available.	
or threshold	Not available.	
	3 - 5	
ting point/freezing point	Not available.	
ial boiling point and boiling ge	Not available.	
ur point	Not available	

Pour point

Specific gravity

Not available.

0.99 - 1.01

Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive 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	8.2 - 8.4 lb/gal
Solubility(ies)	Miscible
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
	10. Stability and Reactivity

Reactivity Possibility of hazardous reactions	This product may react with strong oxidizing agents. 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.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ing	estion.	
Information on likely routes of	exposure		
Ingestion	May cause stomach distress, na	usea or vomiting.	
Inhalation	Prolonged inhalation may be ha	mful.	
Skin contact	No adverse effects due to skin c	ontact are expected.	
Eye contact	Direct contact with eyes may ca	se temporary irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may ca	se temporary irritation.	
Information on toxicological ef	fects		
Acute toxicity			
Components	Species	Test Results	
Acetic acid (CAS 64-19-7)			
Acute			

Acule			
Dermal			
LD50	Guinea pig	3300 mg/kg	
	Rabbit	1112 mg/kg	
		1060 mg/kg	
Inhalation			
LC50	Guinea pig	5000 ppm, 1 Hours	
	Mouse	5620 ppm, 1 Hours	

Components	Species		Test Results
			2810 ppm, 4 Hours
			6.9 mg/l/4h
	Rat		11.4 mg/L, 4 Hours
Oral			
LD50	Mouse		4960 mg/kg
	Rabbit		1200 mg/kg
	Rat		3530 mg/kg
Skin corrosion/irritation	Prolonged s	skin contact may cause temporary irritati	on.
Exposure minutes	Not availab		
Erythema value	Not availab	le.	
Oedema value	Not availab		
Serious eye damage/eye irritation	Direct conta	act with eyes may cause temporary irrita	tion.
Corneal opacity value	Not availab	le.	
Iris lesion value	Not availab	le.	
Conjunctival reddening value	Not availab	le.	
Conjunctival oedema value	Not availab	le.	
Recover days	Not availab	le.	
Respiratory or skin sensitization	n		
Respiratory sensitization	Not a respir	ratory sensitizer.	
Skin sensitization	This produc	ct is not expected to cause skin sensitiza	tion.
Mutagenicity		ailable to indicate product or any compor or genotoxic.	nents present at greater than 0.1% are
Carcinogenicity	See below.		
US. OSHA Specifically Reg Not listed.	ulated Substa	ances (29 CFR 1910.1001-1050)	
Reproductive toxicity	This produc	t is not expected to cause reproductive	or developmental effects.
Teratogenicity	Not availab	le.	
Specific target organ toxicity - single exposure	Not classifie	ed.	
Specific target organ toxicity - repeated exposure	Not classifie	ed.	
Aspiration hazard	Not an aspi	ration hazard.	
Chronic effects	Prolonged i	nhalation may be harmful.	
		12. Ecological Information	
Ecotoxicity	Not availab	le.	
Ecotoxicological data			
Components		Species	Test Results
Acetic acid (CAS 64-19-7)			
Crustacea	EC50	Daphnia	47 mg/L, 48 Hours
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	75 mg/L, 96 hours
Persistence and degradability	No data is a	available on the degradability of this proc	duct.
Bioaccumulative potential			
Mobility in soil	No data ava	ailable.	
Mobility in general	Not availab	le.	
Other adverse effects			depletion, photochemical ozone creation ential) are expected from this component.
		13. Disposal Considerations	
		-	

Disposal instructions Local disposal regulations

Dispose in accordance with all applicable regulations.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

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	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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
	14. Transport Information
Transport of Dangerous Goods (TDG) Proof of Classification	In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification 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	
Not regulated as dangerous g	oods.
	15. Regulatory Information
Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
Export Control List (CEPA 1	999, Schedule 3)
Not listed.	
Greenhouse Gases Not listed.	
Precursor Control Regulation	ons
Not regulated.	
WHMIS 2015 Exemptions	Not applicable
US federal regulations	
-	Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substa	nce List (40 CFR 302.4)
) Listed. Ilated Substances (29 CFR 1910.1001-1050)
Not listed.	
	authorization Act of 1986 (SARA)
Hazard categories	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) Not regulated.	
Other federal regulations	
	112 Hazardous Air Pollutants (HAPs) List
Not regulated. Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
US state regulations	See below
	us Substances (Director's): Listed substance
	afety Act: Listed substance
Acetic acid (CAS 64-	
Acetic acid (CAS 64-	

US - Minnesota Haz Subs: Listed substance Acetic acid (CAS 64-19-7)

Listed.

US - New Jersey RTI	K - Substances: Listed substance	
Acetic acid (CAS	64-19-7)	
US - North Carolina	Toxic Air Pollutants: Listed substance	
Acetic acid (CAS	64-19-7)	
US - Texas Effects S	creening Levels: Listed substance	
Acetic acid (CAS	64-19-7) Listed.	
US. Massachusetts I	RTK - Substance List	
Acetic acid (CAS	64-19-7)	
•	ker and Community Right-to-Know Act	
Not regulated.		
6	orker and Community Right-to-Know Law	
Acetic acid (CAS	64-19-7)	
US. Rhode Island RT	,	
Acetic acid (CAS	64-19-7)	
US. California Propositio	n 65	
Not Listed.		
Inventory status		
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes

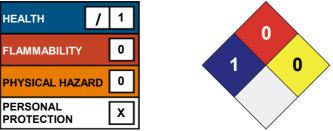
CanadaNon-Domestic Substances List (NDSL)United States & Puerto RicoToxic Substances Control Act (TSCA) Inventory

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

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Disclaimer

16.	Other	Information



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.

	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.	

Yes