

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	Whirlpool Water Softener Cleanser		
Other means of identification	Not available		
Recommended use	Water Softener Resin Cleaner		
Recommended restrictions	None known.		
Manufacturer	ResinTech Inc 160 Cooper Road West Berlin, NJ 08091 US Phone 856-768-9600 Emergency Phone: 1-800-424-9300 (CHI	EMTREC)	
	2. Hazards Identifica	tion	
Physical hazards	Corrosive to metals	Category 1	
Health hazards	Skin corrosion/irritation	Category 2	
	Serious eye damage/eye irritation	Category 1	
Environmental hazards	Not classified.		
DSHA defined hazards	Not classified.		
Label elements			
	LE B		
	\checkmark		
Signal word	Danger		
Hazard statement	May be corrosive to metals. Causes skin irritation. Causes serious eye damage.		
Precautionary statement			
Prevention	Keep only in original container. Wash thore eye/face protection.	bughly after handling. Wear prote	ective gloves. Wear
Response	If on skin: Wash with plenty of water. Spec Get medical advice/attention. Take off con If in eyes: Rinse cautiously with water for s easy to do. Continue rinsing. Immediately Absorb spillage to prevent material damag	taminated clothing and wash it b everal minutes. Remove contac call a poison center/doctor.	efore reuse.
Storage	Store in corrosive resistant container with	a resistant inner liner.	
Disposal	Dispose of waste and residues in accorda	nce with local authority requirem	ents.
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	Not applicable.		
	3. Composition/Information of	n Ingredients	
Mixture			
Chemical name	Common name and synonym	s CAS number	%
Phosphoric acid		7664-38-2	3 - 7
Composition comments	US GHS: The exact percentage (concentrates secret in accordance with paragraph (i) of		rithheld as a trade
	4. First Aid Measur	es	
nhalation	If symptoms develop move victim to fresh	air. If symptoms persist, obtain r	medical attention.
Skin contact	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see product label).		
Eye contact	If in eyes: Rinse cautiously with water for s easy to do. Continue rinsing. Immediately		t lenses, if present and

Ingestion	Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. 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. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.	
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. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.	
	5. Fire Fighting Measures	
Suitable extinguishing media	Treat for surrounding material.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from	Firefighters should wear a self-contained breathing apparatus.	

Special protective equipment
and precautions for firefightersFirefighters should wear full protective clothing including self contained breathing apparatus.Fire-fighting
equipment/instructionsMove containers from fire area if you can do so without risk.Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.Hazardous combustion
productsMay include and are not limited to: Oxides of carbon. Oxides of phosphorus.Explosion data
impactNot available.

Sensitivity to static Not available.

the chemical

discharge

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 containment and cleaning up	Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. 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. Never return spills to original containers for re-use.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Prevent entry into waterways, sewers, basements or confined areas.
	7. Handling and Storage
Precautions for safe handling	Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Provide adequate ventilation.
Conditions for safe storage, including any incompatibilities	Store in corrosive resistant container with a resistant inner liner. Store in a closed container away from incompatible materials. Keep only in the original container. Store in a cool, dry place out of direct sunlight.

8. Exposure Controls/Personal Protection				
Occupational exposure limits				
US. OSHA Table Z-1 Limit	ts for Air Contaminants (29 CFR 1910.	1000)		
Components	Туре	Value		
Phosphoric acid (CAS 7664-38-2)	PEL	1 mg/m3		
US. ACGIH Threshold Lim	nit Values			
Components	Туре	Value		
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3		
	TWA	1 mg/m3		
US. NIOSH: Pocket Guide	e to Chemical Hazards			
Components	Туре	Value		
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3		
	TWA	1 mg/m3		
Biological limit values	No biological exposure limits noted	for the ingredient(s).		
Appropriate engineering controls	should be matched to conditions. If or other engineering controls to mai	0 air changes per hour) should be used. Ventilation rates applicable, use process enclosures, local exhaust ventilation, ntain airborne levels below recommended exposure limits. If plished, maintain airborne levels to an acceptable level.		
Individual protection measure	es, such as personal protective equipn	nent		
Eye/face protection	Wear safety glasses with side shield	ds (or goggles).		
Skin protection				
Hand protection	Rubber gloves. Confirm with a repu	itable supplier first.		
Other	Wear appropriate chemical resistan	Wear appropriate chemical resistant clothing. As required by employer code.		
Respiratory protection	Where exposure guideline levels ma	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.		
Thermal hazards	Not applicable.	Not applicable.		
General hygiene considerations	and before eating, drinking, and/or s equipment to remove contaminants.	ene measures, such as washing after handling the material smoking. Routinely wash work clothing and protective . Wash hands before breaks and immediately after handling giene practices in handling this material. When using do not ea		

9. Physical and Chemical Properties		
Appearance	Clear	
Physical state	Liquid.	
Form	Liquid.	
Color	Blue	
Odor	Characteristic	
Odor threshold	Not available.	
рН	2.5 (1%)	
Melting point/freezing point	Not available.	
Initial boiling point and boiling	Not available.	

9 Physical and Chemical Properties

(n-octanol/water)	
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.

Not available.

Not available.

1.08 - 1.1

range

Pour point Specific gravity

Partition coefficient

Explosive limit - lower (%) Not available. Explosive limit - uppor (%) Not available. Vapor pressure Not available. Vapor density Not available. Solubility(res) Not available. Auto-ignition temperature Not available. Auto-ignition temperature Not available. Viscosity Not available. Percent of the available. Viscosity Not available. Reactivity Reacts vigorously with alkaline material. This product may react with reducing agents. Possibility of hazardous Hazardous polymerization does not occur. Conditions to not mix with other chemicals. Contact with incompatible materials. Incompatible materials assailing Causties. Bases. Reducing agents. Oxidizers. Hazardous decomposition Product with effect with reducing agents. Prostation on linkly routes of exposure Eye. Skin contact, inhalation, Ingestion. Information on linkly routes of exposure Eyes of a not ink with effect with reducing agents. Skin contact Causes skin irritation. Eye contact Symptoms any induces single. Symptoms related to the profused in may be harmful. No adverse effects due to inhalation are expected. Skin contact Causes skin irritation. Eye contact Symptoms may include singling, charing, redness, swelling, and blurred vision. Permanent eye physical, chemical and toxic profile of the service studies singling. Name and the studies of the service studies singling. Symptoms related to the physical of the service studies singling. Skin contact Causes skin irritation. Eye contact Species Test Results Prosphoric acti (CAS 7664-38-2) Acute toxicity Components Results Not available. Oral L500 Rabit 2740 mg/kg Not available. Services and and toxi available. Company and available. Company and available. Services are analysing Not available. Services are analysing Not available. Company and available. Company analysing Not available. Services are analysing Not available. Company and available. Company and available. Services are analysing Not available. Services are anangely with Not available. Company and available.				
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mage including blindness could result. Skin irritation. May cause redness and pain. toxicological characteristics Information on toxicological effects Acute toxicity Compoents Species Test Results Phosphoric acid (CAS 7664-38-2) Acute Dermal LD50 Rabbit Could and and and and and and and and and an	Eye contact	Causes serious eye damage.		
Acute Species Test Results Pisperier acid (CAS 7664-38-2) Parmal Parmal Parmal Dermal Rabbi 2740 mg/kg LD50 Rabbi 2740 mg/kg Inhalation Inhalation Inhalation LC50 Not available Not available Oral Exposure minutes Rat Isoo Markan Not available Son mg/kg Ocdema value Not available Son mg/kg Ocdema value Not available Son mg/kg Iris Ison value Not available Son mg/kg	physical, chemical and			
ComponentsSpeciesTest ResultsPhosphoric acid (CAS 7664-38-2)AcuteDermalDermalDermalRabbitLD50RabbitInhalationInhalationLC50Not availableOralRatD50RatSkin corrosion/irritationCauses skin irritation.Exposure minutesNot available.Erythema valueNot available.Odelema valueNot available.Seri-us eye damage/eyeNot available.Conjunctival reddening valueNot available.Conjunctival reddening valueNot available.Conjunctival reddening Recover daysNot available.Kor eye daysNot available.Seri-us eye damage/eyeNot available.Conjunctival reddening valueNot available.Conjunctival reddening Recover daysNot available.Kor eye daysNot available.	Information on toxicological effe	cts		
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Acute Dermal Dermal 2740 mg/kg LD50 Rabit 2740 mg/kg Inhalation Dermal 2740 mg/kg LD50 Not available Provide Oral Dormal 2000 mg/kg D50 Rat 1530 mg/kg Store Complexity and the	Components	Species	Test Results	
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Inhalation LC50 Not available Oral LD50 Rat LD50 Rat Skin corrosion/irritation Causes skin irritation. Exposure minutes Not available. Erythema value Not available. Oedema value Not available. Oedema value Not available. Corneal opacity value Not available. Iris lesion value Not available. Conjunctival reddening value Not available. Conjunctival cedema value Not available. Korowalue	Dermal			
LC50 Not available Oral Rat 1530 mg/kg Skin corrosion/irritation Causes skin irritation. Exposure minutes Not available. Erythema value Not available. Oedema value Not available. Oedema value Not available. Vot available. Causes serious eye damage. Irritation Causes serious eye damage. Irritation Not available. Corneal opacity value Not available. Iris lesion value Not available. Conjunctival reddening value Not available. Conjunctival cedema value Not available. Kecover days Not available.	LD50	Rabbit	2740 mg/kg	
LD50Rat1530 mg/kgSkin corrosion/irritationCauses skin irritation.Exposure minutesNot available.Frythema valueNot available.Oedema valueNot available.Oedema valueCauses serious eye damage.FritutionCorneal opacity valueIris lesion valueNot available.Conjunctival reddening valueNot available.Conjunctival reddening Recover daysNot available.Kerowe daysNot available.		Not available		
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Erythema valueNot available.Oedema valueNot available.Oedema valueNot available.Serious eye damage/eye irritationCauses serious eye damage.Corneal opacity valueNot available.Iris lesion valueNot available.Conjunctival reddening valueNot available.Conjunctival oedema valueNot available.Kecover daysNot available.	Skin corrosion/irritation	Causes skin irritation.		
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Serious eye damage/eye irritationCauses serious eye damage.Corneal opacity valueNot available.Iris lesion valueNot available.Conjunctival reddening valueNot available.Conjunctival oedema valueNot available.Recover daysNot available.	-	Not available.		
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Iris lesion valueNot available.Conjunctival reddening valueNot available.Conjunctival oedema valueNot available.Recover daysNot available.		Causes serious eye damage.		
Conjunctival reddening valueNot available.Conjunctival oedema value Recover daysNot available.	Corneal opacity value	Not available.		
valueConjunctival oedema valueNot available.Recover daysNot available.	Iris lesion value	Not available.		
Recover days Not available.		Not available.		
	Conjunctival oedema value	Not available.		
Respiratory or skin sensitization	Recover days	Not available.		
	Respiratory or skin sensitization			

Respiratory sensitization Not available.

Skin sensitization Germ cell mutagenicity Mutagenicity Carcinogenicity	This product is not expected to cause skin sensitization. Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria. Not classified or listed by IARC, NTP, OSHA and ACGIH.
Reproductive toxicity	Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not available.
Chronic effects	Prolonged inhalation may be harmful.
Further information	Not available.
Name of Toxicologically Synergistic Products	Not available.

		12. Ecological Information		
Ecotoxicity	See belov	v		
Components		Species	Test Results	
Phosphoric acid (CAS 7664-	38-2)			
Aquatic				
Acute				
Crustacea	LC50	Water flea (Daphnia magna)	4.6 mg/l, 12 hr	
Fish	LC50	Mosquitofish (Gambusia affinis affinis)	3 - 3.5 mg/l, 96 hr	
Persistence and degradability	No data is	available on the degradability of this product		
Bioaccumulative potential	No data a	vailable.		
Mobility in soil	No data a	No data available.		
Mobility in general	Not available.			
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
		13. Disposal Considerations		
Disposal instructions	reclaim or	deral, state/provincial, and local government is dispose in sealed containers at licensed was to sewers/water supplies. Do not contaminate ontainer.	te disposal site. Do not allow this material	
Local disposal regulations	Dispose in accordance with all applicable regulations.			
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		ntainers should be taken to an approved wast otied containers may retain product residue, fo	, , , , , , , , , , , , , , , , , , ,	

14. Transport Information

Goods (TDG - Canada) ents: UN1805	
Goods (TDG - Canada)	
241	
203	
154	
A7, IB3, N34, T4, TP1	
III	
8	
Phosphoric acid solution	
UN1805	
ents:	
	Phosphoric acid solution 8 III A7, IB3, N34, T4, TP1 154 203

Proper shipping name Hazard class Packing group DOT	PHOSPHORIC ACID, LIQUID 8 III
8	
TDG	
	15. Regulatory Information
Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.
Canada WHMIS Ingredient D	
Phosphoric acid (CAS 76	
WHMIS status	Controlled
WHMIS classification	Class E - Corrosive Material
WHMIS labeling	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)
Not regulated.	• • • • • • • • • • • • • • • • • • •
	dous Substances: Listed substance
Phosphoric acid (CAS 76 CERCLA Hazardous Substa	
Phosphoric acid (CAS 76	
Not regulated. Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List
Not regulated.	
Superfund Amendments and Re	authorization Act of 1986 (SARA)
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			
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Hazardous substance		
Safe Drinking Water Act (SDWA)	Not regulated.		
Food and Drug Administration (FDA)	Not regulated.		
US state regulations	See below		
US - California Hazardo	ous Substances (Director's):	Listed substance	
Phosphoric acid (CA	AS 7664-38-2)	Listed.	
US - California Proposi	tion 65 - Carcinogens & Rep	roductive Toxicity (CRT): Listed substar	ice
Ethanol (CAS 64-17	,	Listed.	
	Safety Act: Listed substance		
Phosphoric acid (CA	AS 7664-38-2) porting: Listed substance	Listed.	
•		Listed.	
Phosphoric acid (CA US - Minnesota Haz Su	,	Listed.	
Phosphoric acid (CA		Listed.	
1 (Substances: Listed substar		
Phosphoric acid (CA	AS 7664-38-2)	Listed.	
	Reporting: Hazardous Subs	stances: Listed substance	
Phosphoric acid (CA		Listed.	
US - Texas Effects Scre	ening Levels: Listed substa	ince	
Phosphoric acid (CA	,	Listed.	
US. Massachusetts RT			
Phosphoric acid (CA		Listed.	
•	- Hazardous Substances	Listed.	
Phosphoric acid (CA US. Rhode Island RTK	AS 7004-30-2)	Listed.	
Phosphoric acid (CA	AS 7664-38-2)	Listed.	
Inventory status	,		
Country(s) or region	Inventory name		On inventory (yes/no)*
Canada	Domestic Substances List	(DSL)	Yes
Canada	Non-Domestic Substances		No
United States & Puerto Rico	Toxic Substances Control A		Yes
			100

United States & Puerto Rico I oxic 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	
Severe4Serious3Moderate2Slight1Minimal0	FLAMMABILITY 0 PHYSICAL HAZARD 0 PERSONAL PROTECTION X
Disclaimer	The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.
Issue date	4-February-2019
Effective date	4-February-2019
Expiry date	4-February-2020
Further information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

16. Other Information

ResinTech Inc,

Prepared by Other information

Issue date 4-February-2019