

# SAFETY DATA SHEET

## 1. Product and Company Identification

Product identifier	Morton Water Softener		
Other means of identification	Cleanser 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 (CHE	MTREC)	
	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.		
OSHA defined hazards	Not classified.		
Label elements			
	$\wedge$		
	$\sim$		
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 accordar	nce with local authority requirem	ents.
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	Not applicable.		
	3. Composition/Information or	n Ingredients	
Mixture			
Chemical name	Common name and synonyme	CAS number	%
Phosphoric acid		7664-38-2	3 - 7
Composition comments	US GHS: The exact percentage (concentra secret in accordance with paragraph (i) of		vithheld as a trade
	4. First Aid Measur	es	
Inhalation	If symptoms develop move victim to fresh	air. If symptoms persist, obtain	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<br/>and precautions for firefightersFirefighters should wear full protective clothing including self contained breathing apparatus.Fire-fighting<br/>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<br/>productsMay include and are not limited to: Oxides of carbon. Oxides of phosphorus.Explosion data<br/>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.		
<b>Respiratory protection</b>	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.				
Vapor pressure         Not available,           Vapor density         Not available,           Vapor density         Not available,           Rolativa density         Not available,           Solubility(les)         Not available,           Decomposition temperature         Not available,           Receivity         Reactivity available,           Conditions to available         Hazardous polymerization does not occur.           Conditions to avoid         Do not mix with other chemicals. Contact with incompatible materials.           Incompatible materials         Claustos. Bases Relucing agents. Oxidizers.           Indication on likely routes of exposure         Eye, Skin contact, Inhalation, Ingestion.           Information on likely routes of exposure         Eye, Skin contact, Inhalation, may causes rothesa, availing, and blurred vision. Permanent eva damage including inducting including inducting including including including including.           Skin contact         Causes skin infration.           Eye contact         Causes	• • • • • •			
Vapor density         Not available.           Relative density         Not available.           Relative density         Not available.           Auto-ignition temperature         Not available.           Auto-ignition temperature         Not available.           Viscosity         Not available.           Viscosity         Not available.           Viscosity         Not available.           Rectivity         Reactivity           Reactivity         Reactivity           Resciption         Reactivity           Resciption         Reactivity           Reactivity         Reactivity           Resciptions         Conditions to avoid           Do not rink with other chemicals. Contact with incompatible materials.           Incompatible materials         Caustics. Bases. Reducing agents. Oxiders of carbon. Oxides of phosphorus.           products         Int. Toxicological Information           Rutes of exposure         Eye, Skin contact, inhalation, lingestion.           Information on likely routes of exposure         Eye, Skin contact, inhalation, gent instand.           Skin contact         Causes skin irritation.           Eye contact         Causes skin irritation.           Skin contact         Causes skin irritation.           Lobool	Explosive limit - upper (%)			
Relative density     Not available.       Solubility(es)     Not available.       Auto-ignition     temperature       Not available.     Not available.       Decomposition     temperature       Not available.     Not available.       Viscosity     Not available.       Reactivity     Reacts vigorously with aikaline material. This product may react with reducing agents.       Possibility of hazardous     Hazardous polymerization does not occur.       Conditions to avoid     Do not mix with other chemicals. Contact with incompatible materials.       Incompatible materials     Caustics. Bases. Reducing agents. Oxidizers.       Mazardous docomposition     May include and are not limited to: Oxides of carbon. Oxides of phosphorus.       products     11. Toxicological Information       Routes of exposure     Eye. Skin contact, inhalation, Ingestion.       Information on likely routes of exposure     Iggestion       Indensition     Prolonged inhalation may be harmful. No adverse effects due to inhalation are expected.       Skin contact     Causes seriou seye damage.       Symptoms rolated to the Symptoms michade stinging, tearing, redness, swelling, and blurred vision. Permanent eye physical, chemical and the available.       Components     Species     Test Results       Phosphoric acid (CAS 7664-38-2)     Acute oxide adverse infration.       LOSO     Rat     1530 mg/kg				
Solubility(ies)       Not available.         Auto-ignition temperature Decomposition temperature Not available.       Not available.         Viscosity       Not available.         Viscosity       Not available.         Viscosity       Not available.         Viscosity       Not available.         Reactivity       Reacts vigorously with alkaline material. This product may react with reducing agents.         Possibility of hazardous       Possibility of hazardous         Teactivity       Reacts vigorously with alkaline material. This product may react with reducing agents.         Conditions to avoid       Do not nix with other chemicals. Contact with incompatible materials.         Incompatible materials       Caustics. Bases. Reducing agents. Oxidizers.         Hazardous decomposition       May include and are not limited to: Oxides of carbon. Oxides of phosphorus.         products <b>11. Toxicological Information</b> Routes of exposure       Eye, Skin contact, Inhelation, Ingestion.         Information on likely routes of exposure       Causes serious eye damage.         Symptoms related to the physical, chemical and pain.       Symptoms may include stinging, tearing, redness. evelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.         Lobo       Rabit       2740 mg/kg         Inhalation				
Auto-ginition       temperature       Not       available.         Decomposition       temperature       Not       available.         Viscosity       Not       available.         Viscosity       Not       available.         Reactivity       Reacts vigorously with sikaline material. This product may react with reducing agents.         Possibility of hazardous       Hazardous polymerization does not occur.         Conditions to avoid       Do nor mix with other chemicals. Contact with incompatible materials.         Incompatible materials       Caustics. Bases. Reducing agents. Oxidizers.         Hazardous decomposition       May include and are not limited to: Oxides of carbon. Oxides of phosphorus.         products       11. Toxicological Information         Routes of exposure       Eye. Skin contact. Inhelation, Ingestion.         Information on likely routes of exposure       Ingestion hazard.         Inhalation       Prolonged inhalation may be harmful. No adverse effects due to inhelation are expected.         Skin contact       Causes serious eye damage.         Symptoms related to the physical, chemical and toxicological effects         Acute toxicity       Species       Test Results         Components       Species       Test Results         Phosphoric acid (CAS 7664-38-2)       Acute       Test Results	•			
Decomposition         temperature Not available.           Viscosity         Not available.           Reactivity         Reacts vigrously with alkaline material. This product may react with reducing agents.           Possibility of hazardous reactions         Hazardous polymerization does not occur.           Reactivity         Reacts vigrously with alkaline material. This product may react with reducing agents.           Possibility of hazardous         Hazardous polymerization does not occur.           Incompatible materials         Contact with incompatible materials.           Incompatible materials         Coustos. Bases. Reducing agents. Oxidares.           Hazardous decomposition products         May include and are not limited to: Oxides of carbon. Oxides of phosphorus. products           Routes of exposure         Eyec. Skin contact. Inhalation, Ingestion.           Information on likely routes of exposure         Expected to be a low ingestion hazard.           Inhalation         Prolonged inhalation may be harmful. No adverse effects due to inhalation are expected.           Skin contact         Causes serious eye damage.           Symptoms related to the physical, chemical and toxicological dharacteristics         Symptoms related to the general LoSo           Inhereducing Difference         Species         Test Results           Phosphoric acid (CAS 7664-38-2)         Acute Dermal         LoSo           LoSo<	Solubility(ies)	Not available.		
Viscosity         Not available.           ID. Stability and Reactivity           Reactivity         Reacts vigorously with alkaline material. This product may react with reducing agents.           Possibility of hazardous         Hazardous polymerization does not occur.           Conditions to avoid         Do not mix with other chemicals. Contact with incompatible materials.           Incompatible materials         Caustics. Bases. Reducing agents. Oxidizers.           Hazardous decomposition         May include and are not limited to: Oxidizer of carbon. Oxides of phosphorus.           products         11. Toxicological Information           Routes of exposure         Eye. Skin contact, Inhalation, Ingestion.           Information on likely routes of exposure         Eye. Skin contact         Causes serious eye damage.           Symptoms related to the physical, chemical and burned vision. Promanent eye physical, chemical and LoSO         Species         Test Results           Prosporter sciel (CAS 7664-38:2)         Acute         Species         Test Results           Prosporter sciel (CAS 7664-38:2)         Acute         Causes serious eye damage.         Symptoms may alable.         Symptoms related to the valiable.         Causes skin irritation.           LDSO         Rat         1530 mg/kg         Skin corrosison/irritation				
10. Stability and Reactivity         Reactivity         Reactivity         Reactivity         Reactivity         Reactivity         Reactivity         Reactivity         Reactivity         Stable under recommended storage conditions.         Conditions to avoid         Do not mix with other chemicals. Contact with incompatible materials.         Incompatible materials         Caustics. Bases. Reducing agents. Oxidizers.         Hazardous decomposition products         Int Toxicological Information         Results Collaters.         May include and are not limited to: Oxides of carbon. Oxides of phosphorus. products         Int Toxicological Information         Results Collaters.         Interview of exposure         Ingestion         Interview of exposure         Ispecies to a low ingestion hazard.         Inhalation         Protocols and exposure for exposure         Causes serious eye damage.         Symptoms related to the <td col<="" th=""><th>Decomposition temperature</th><th></th><th></th></td>	<th>Decomposition temperature</th> <th></th> <th></th>	Decomposition temperature		
Reactivity         Reacts vigorously with alkaline material. This product may react with reducing agents.           Possibility of hazardous         Hazardous polymerization does not occur.           reactions         Chemical stability         Stable under recommended storage conditions.           Conditions to avoid         Do not mix with other chemicals. Contact with incompatible materials.           Incompatible materials         Caustics. Bases. Reducing gents. Oxidizers.           Hazardous decomposition products         May include and are not limited to: Oxides of carbon. Oxides of phosphorus. products           Products <b>11. Toxicological Information</b> Routes of exposure         Eye. Skin contact, Inhalation, Ingestion.           Information on likely routes of exposure         Expected to be a low ingestion hazard.           Inhalation         Prolonged inhalation may be harmful. No adverse effects due to inhalation are expected.           Skin contact         Causes serious eye damage.           Symptoms related to the Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.           toxicological effects         Acute           Components         Species         Test Results           Phosphoric acid (CAS 7664-38-2)         Acute         1530 mg/kg           Oral         LD50         Rath	Viscosity			
Possibility of hazardous reactions         Hazardous polymerization does not occur.           Hazardous polymerization does not occur.         Enterial stability           Chemical stability         Stable under recommended storage conditions.           Conditions to avoid         Do not mix with other chemicals. Contact with incompatible materials.           Incompatible materials         Caustics. Bases. Reducing agents. Oxidizers.           Hazardous decomposition         May include and are not limited to: Oxidizers.           Indicator         Fischer Contact, Inhalation, Ingestion.           Information on likely routes of exposure         Eye, Skin contact, Inhalation, Ingestion.           Information         Expected to be a low ingestion hazard.           Inhalation         Prolonged inhalation may be harrful. No adverse effects due to inhalation are expected.           Skin contact         Causes serious eye damage.           Symptoms related to the physical, chemical and toxicological effects         Acute oxicity           Components         Species         Test Results           Phosphoric acid (CAS 7664-38-2)         Acute oxicity         Z740 mg/kg           LD50         Rat         1530 mg/kg           Skin corrosion/firitation         Causes skin irritation.         Exposure finitable.           LD50         Rat         1530 mg/kg         Serious and available.		10. Stability ar	nd Reactivity	
reactions Chemical stability Stable under recommended storage conditions. Conditions to avoid Do not mix with other chemicals. Contact with incompatible materials. Incompatible materials Caustics. Bases. Reducing agents. Oxidizers. Hazardous decomposition May include and are not limited to: Oxides of carbon. Oxides of phosphorus. products <b>11. Toxicological Information</b> Routes of exposure Eye, Skin contact, Inhalation, Ingestion. Information on likely routes of exposure Ingestion Expected to be a low ingestion hazard. Inhalation Prolonged inhalation may be harmful. No adverse effects due to inhalation are expected. Skin contact Causes skin irritation. Eye contact Symptoms related to the Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye physical, chemical and toxicological effects Acute Oxicological effects Acute Dermal LDSO Rabit 2740 mg/kg <i>Inhalation</i> LCSO Not available. Grain Causes skin irritation. Exposure minutes Not available. Sorious eye damage/ Skin corrosion/irritation Causes skin irritation. Exposure minutes Not available. Grain Exposure minutes Not available. Groin Causes skin irritation. Exposure minutes Not available. Groine Not available. Conjunctival opacity value Not available. Conjunctival reddening Value Conjunctival reddening Value Conjunctival codema value Not available. Conjunctival codema value Not available. Conjunctival reddening Not available. Conjunctival reddening Not available. Conjunctival codema value Not available. Conjunctival	Reactivity	Reacts vigorously with alkaline n	naterial. This product may react with reducing agents.	
Conditions to avoid       Do not mix with other chemicals. Contact with incompatible materials.         Incompatible materials       Caustics. Bases. Reducing agents. Oxidizers.         Hazardous decomposition products       May include and are not limited to: Oxides of carbon. Oxides of phosphorus.         Products       11. Toxicological Information         Routes of exposure       Eye, Skin contact, Inhalation, Ingestion.         Information on likely routes of exposure       Expected to be a low ingestion hazard.         Inhalation       Prolonged inhalation may be harmful. No adverse effects due to inhalation are expected.         Skin contact       Causes serious eye damage.         Symptoms related to the       Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.         toxicological effects       Kaute         Components       Species       Test Results         Phosphoric acid (CAS 7664-38-2)       Kaute       Zauses skin irritation.         Acute       Dermal       1530 mg/kg         Skin corrosion/irritation       Causes skin irritation.       Exposure induces         LD50       Rat       1530 mg/kg         Skin corrosion/irritation       Causes skin irritation.       Exposure induces         Dermal       LD50       Rat	-	Hazardous polymerization does	not occur.	
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Hazardous decomposition products       May include and are not limited to: Oxides of carbon. Oxides of phosphorus.         France       11. Toxicological Information         Routes of exposure       Eye, Skin contact, Inhalation, Ingestion.         Information on likely routes of exposure       Expected to be a low ingestion hazard.         Inhalation       Prolonged inhalation may be harmful. No adverse effects due to inhalation are expected.         Skin contact       Causes skin irritation.         Eye contact       Causes serious eye damage.         Symptoms related to the physical, chemical and damage including blindness could result. Skin irritation. May cause redness and pain.         toxicological effects         Acute toxicity       Species       Test Results         Phosphoric acid (CAS 7664-38-2)       Acute       Dermal         LD50       Rat       1530 mg/kg         Skin corrosion/irritation       Causes skin irritation.       Exposure initiation.         Exposure minutes       Not available.       Serious eye damage.         Skin corrosion/irritation       Causes skin irritation.       Exposure initiation.         Exposure minutes       Not available.       Coral       Erythema value       Not available.         Corrol opacity value       Not available.       Corigonitation       Not available.       Erythema value	Conditions to avoid	Do not mix with other chemicals.	Contact with incompatible materials.	
products       11. Toxicological Information         Routes of exposure       Eye, Skin contact, Inhalation, Ingestion.         Information on likely routes of exposure       Eye, Skin contact, Inhalation, Ingestion hazard.         Inhalation       Prolonged inhalation may be harmful. No adverse effects due to inhalation are expected.         Skin contact       Causes skin irritation.         Eye contact       Causes serious eye damage.         Symptoms related to the de Symptoms may includes stinging, tearing, redness, swelling, and blurred vision. Permanent eye physical, chemical and damage including blindness could result. Skin irritation. May cause redness and pain.         toxicological characteristics       Information on toxicological effects         Acute toxicity       Species       Test Results         Phosphoric acid (CAS 7664-38-2)       Acute       Z740 mg/kg         Inhalation       L050       Rabbit       2740 mg/kg         Inhalation       Causes skin irritation.       Exposure minutes       Not available         Oral       Z       Z740 mg/kg       Instance         Exposure minutes       Not available.       Sin corrosion/irritation.       Exposure minutes       Not available.         Strin corrosion/irritation       Causes skin irritation.       Exposure minutes       Not available.       Strin corrosion/irritation       Strin corrosion/irritation <th></th> <th></th> <th></th>				
Routes of exposure         Eye, Skin contact, Inhalation, Ingestion.           Information on likely routes of exposure         Ingestion           Ingestion         Expected to be a low ingestion hazard.           Inhalation         Prolonged inhalation may be harmful. No adverse effects due to inhalation are expected.           Skin contact         Causes serious eye damage.           Symptoms related to the physical, chemical and toxicological cheracteristics         Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.           Information on toxicological effects         Acute           Components         Species           Dermal         Z           LD50         Rabbit           LD50         Rat           Stin cortosion/irritation         Causes skin irritation.           Exposure minutes         Not available.           Ordem value         Not available.           Ordem value         Not available.           Privine value         Not available.           Conjunctival reddening value         Not available.           Conjunctival reddening value         Not available.           Conjunctival reddening value         Not available.           Conjunctival reddening value         Not available.     <		May include and are not limited t	o: Oxides of carbon. Oxides of phosphorus.	
Information on likely routes of exposure         Expected to be a low ingestion hazard.           Instalation         Expected to be a low ingestion hazard.           Inhalation         Prolonged inhalation may be harmful. No adverse effects due to inhalation are expected.           Skin contact         Causes skin irritation.           Eye contact         Causes skin irritation.           Eye contact         Causes serious eye damage.           Symptoms related to the symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.           toxicological characteristics         Information on toxicological effects           Acute toxicity         Species         Test Results           Phosphoric acid (CAS 7664-38-2)         Acute         Dermal           LD50         Rabbit         2740 mg/kg           Inhalation         LC50         Not available           Oral         Exposure minutes         Not available           Oral         Erythem value         Not available.           Erythem value         Not available.         Erythem value           Oral         Erythem value         Not available.           Erythem value         Not available.         Erythem value           Ordema value         Not available.		11. Toxicologic	al Information	
IngestionExpected to be a low ingestion hazard.InhalationProlonged inhalation may be harmful. No adverse effects due to inhalation are expected.Kin contactCauses skin irritation.Eye contactCauses skin irritation.Eye contactCauses skin irritation.Symptoms related to the admage including blindness could result. Skin irritation. May cause redness and pain.Symptoms related to the admage including blindness could result. Skin irritation.May cause redness and pain.Information on toxicological effectsSpeciesAcuteSpeciesTest ResultsPhosphoric acid (CAS 7664-38-2)AcuteDermal LDS0Rabit2740 mg/kgInhalation LCS0Not availableOral LDS0Rat1530 mg/kgSkin corrosion/irritationNot available.Oral LDS0Not available.Verteen valueNot available.Verteen valueNot available.Viritation valueNot available.First esion valueNot available.Viritation valueNot available.Viritation valueNot available.Viritation valueNot available.Viritation valueNot available.Viritation valueNot available.Concel opacity valueNot available.Viritation valueNot available.Viritation valueNot available.Viritation valueNot available.Viritation valueNot available.Viritation valueNot available.Viritation value <td< th=""><th>Routes of exposure</th><th>Eye, Skin contact, Inhalation, Ing</th><th>jestion.</th></td<>	Routes of exposure	Eye, Skin contact, Inhalation, Ing	jestion.	
InhalationProlonged inhalation may be harmful. No adverse effects due to inhalation are expected.Skin contactCauses skin irritation.Eye contactCauses serious eye damage.Symptoms related to the physical, chemical and toxicological characteristicsSymptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye data serious eye damage.Information on toxicological effectsSymptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye data serious eye damage.Information on toxicological effectsSymptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye data serious eye damage.Information on toxicological effectsSymptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye data serious eye damage.ComponentsSpeciesSpeciesTest ResultsAcuteSpeciesSpeciesTest ResultsDesphoric acid (CAS 7664-38-2)SpeciesRabit2740 mg/kgInhalation LC50Rabit2740 mg/kgInhalation LC50Rabit2740 mg/kgNot available.SpeciesSpeciesOral LD50Rat1530 mg/kgSwore minutesNot available.SpeciesSpecies eye damage/eye irritation.Species eye damage/eye (acuse serious eye damage/eye)Species eye damage.Figure Source of a subscription of conduct of the serious eye damage/eye valueConduct of the serious eye damage/eye (acuse serious eye damage.Figure Source of a subscription of the serious eye damage/eye value <t< th=""><th>Information on likely routes of ex</th><th>posure</th><th></th></t<>	Information on likely routes of ex	posure		
Skin contact       Causes skin irritation.         Eye contact       Causes serious eye damage.         Symptoms related to the physical, chemical and toxicological characteristics       Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.         Information notxicological effective.       Species       Test Results         Phosphoric acid (CAS 7664-38-2)       Species       Test Results         Dermal       LD50       Rabbit       2740 mg/kg         Inhalation       Not available       2740 mg/kg         LD50       Rat       1530 mg/kg         Strue rosion/irritation       Causes skrin irritation.       Secondamage.         Exposure minutes       Causes skrin irritation.       Secondamage.         Exposure minutes       Cause skrin irritation.       Secondamage.         Exposure minutes       Cause skrin irritation.       Secondamage.         Exposure minutes       Cause skrin irritation.       Secondamage.       Secondamage.         Exposure minutes       Not available.       Secondamage.       Secon	Ingestion	Expected to be a low ingestion h	azard.	
Eye contact       Causes serious eye damage.         Symptoms related to the physical, chemical and cost-chemical and cost-cological characteristics       Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including bilindness could result. Skin irritation. May cause redness and pain.         Information on toxicological effects       Information on toxicological effects         Acute       Species       Test Results         Phosphoric acid (CAS 7664-38-2)       Acute         Dermal       Dermal       Z740 mg/kg         LD50       Rabbit       2740 mg/kg         Inhalation       Not available       Darmal         LD50       Rat       1530 mg/kg         Sweare minutes       Not available.       Second acute         Lopdo and label.       Cause serious eye damage.       Second acute         Exposure minutes       Not available.       Second acute         Condema value       Not available.       Second acute       Cause serious eye damage.         Iris lesion value       Not available.       Second acute       Second	Inhalation	Prolonged inhalation may be har	mful. No adverse effects due to inhalation are expected.	
Symptoms related to the physical, chemical and toxicological characteristics       Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.         Information on toxicological effects       Information on toxicological effects         Acute toxicity       Species       Test Results         Phosphoric acid (CAS 7664-38-2)       Acute       Information         Acute       Dermal       Information         LD50       Rabbit       2740 mg/kg         Inhalation       LD50       Not available         Oral       Information.       Is30 mg/kg         Skin corrosion/Irritation       Causes skin irritation.       Exposure minutes         Rat       1530 mg/kg       Isso mg/kg         Strin corrosion/Irritation       Causes skin irritation.       Isso mg/kg         Exposure minutes       Not available.       Isso mg/kg         Forthem avalue       Not available.       Isso mg/kg         Via vailable.       Corneal opacity value       Not available.         Kirita lesion value       Not available.       Isso mg/kg         Irritation       Not available.       Isso mg/kg         Irritation       Not available.       Isso mg/kg         Corneal opacity value <th>Skin contact</th> <th>Causes skin irritation.</th> <th></th>	Skin contact	Causes skin irritation.		
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		
Phosphoric acid (CAS 7664-38-2) Acute Dermal LD50 Rabbit 2740 mg/kg Inhalation LC50 Not available Oral LD50 Rat Not available Oral LD50 Rat 1530 mg/kg Skin corrosion/irritation Exposure minutes Not available. Causes skin irritation. Exposure minutes Not available. Serious eye damage/eye Not available. Serious eye damage/eye Not available. Serious eye damage/eye Not available. Not available. Serious eye damage/eye Not available. Not available. Not available. Serious eye damage/eye Not available. N	Acute toxicity			
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	
LD50       Rabit       2740 mg/kg         Inhalation       Not available       Anderson         LC50       Not available       Anderson         Oral       Exposure minutes       Rat       1530 mg/kg         Exposure minutes       Not available.       Secondation         Impose       Secondation				
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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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.		
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.	Oedema value	Not available.		
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 E	
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