

## Portage Water Utility (W.T.P)

### Respiratory Hazard Assessment and Respirator Selection

Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
Alkaline Cyanide	Sodium Hydroxide	1.0-5.0	2mg/m3	N/a	Toxic	inside	<30 min	Base	
	Demineralized water	90.0-100.0	N.E		N.E.A				
	Sodium Cyanide	5.0-15.0	5mg/m3 skin		Toxic				
Ammonium Chloride Reference Electrolyte Cartridge	Ammonium chloride	5.0-15.0	10mg/m3	N.D	I	inside	<2 min	N.D MS DS	
	Glycerin	35.0-45.0	10mg/m3 mist		I				
	Hydroxyethyl cellulose	1.0-5.0	N.E		I				
	Demineralized water	40.0-50.0	N.E		N.E.A				
	Other component	<1.0	N.E		Other				
	Silver Chloride	<0.1	N.E		I				
Aquamag	Sodium Orhto	N.D-MSDS	N.D-MSDS	N/A	N.D-MSDS	inside	<5 min	Acid	
Aquasep	Chlorohexidine Gluconate	1.0	N.D-MSDS	N.D-MSDS	I	inside	<5 min	N	
	Propylene Glycol	10.0	N.D-MSDS		I				
Ascorbic Acid	Ascorbic Acid	>99.0	N.E	N/A	P.N.T	inside	<30 min	Acid	
	Other component	<1.0	N.E		Other				
Buffer (Hardness)	Acetic acid	1.0-10.0	10ppm	N.D	F, C.B	inside	<30 min	Base	
	Demineralized water	35.0-45.0	N.E		N.E.A				
	Other component	<1.0	N.E		Other				
	Aminomethylpropanol	50.0-60.0	N.E						
Buffer Solution pH 7	Potassium Phosphate; monobasic	<5.0	N.E	N.D	I	inside	<5 min	N	
	Other Components	<1.0	N.E		Other				
	Demineralized water	to 100	N.E		N.E.A				
Buffer (pH 7)	Demineralized water	>95.0	N.E	N.D	N.E.A	inside	<5 min	N	
	Other components	<1.0	N.E		Other				
	2,4-Dinitrophenol	<0.01	N.E		P,I				
Buffer (pH10)	Demineralized water	>99.0	N.E	N.D	N.E.A	inside	<5 min	Base	
	Other componenets	<1.0	N.E		Other				

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N/H= Non-Hazardous

N/A= Not Applicable

N.E.A. = No effects anticipated

P.N.T= Practically Non-toxic

N.D-MSDS= Not Determined on M.S.D.S

Other = Any ingredient(s) of this product listed as "Other Component(s)" is not considered a health hazard to the user of this product.

N/a= Not Available

N/D= Not Determined

S.D= Skin Digestion

C.B= Causes Burns

N.E= Not Established

F= Flammable

P= Poison

I = Irritation

C= Combustible.

CR= Corrosive

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N=Neutral Ph

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Calgon Carbon	Activated Carbon	100	5 mg/m3	0	I	inside	<5 min	N.D	
Carusol	Liquid Permanganate	19.5-21.0	5mg/m3	760mm/105c		inside	<5 min	N	
DPD Free Chlorine Reagent	Salt N,N diethyl-p-phenyle. Carboxylate Salt	1.0-5.0	N.E	N/A	I	inside	<5 min	N	
	Sod. Phosphate Dibasic, Heptahydrate	55.0-65.0	N.E		I				
	Ethylendiaminetetraacetic Acid, Disodium Salt	30.0-40.0	N.E		I				
		1.0-10.0	N.E		I				
DPD Total Chlorine Reagent	Potassium Iodide	20.0-30.0	N.E	N/A	I	inside	<5 min	N	
	Salt N,N-Diethyl-p-Phenyle diamine	1.0-5.0	N.E		I				
	Sodium Phosphate, Dibasic	20-30.0	N.E		I				
	Other Component	0.1-1.0	N.E		N.E.A.				
	Carboxylate Salt	40.0-50.0	N.E		I				
Fluorosilic Acid	H2 SIF8	23.0-27.0	2.5mg/m3(asF-)	24mmHg/77F	CR	inside	<5 min	Acid	
	Water	73.0-77.0			N.E.A				
Flouride Standard Solution 1.0mg/l	Demineralized Water	>99.0	N.E	N/A	N.E.A.	inside	<5 min	N	
	Other Components	<0.1	N.E		N.E.A.				
	Sodium Flouride	<0.1	2.5mg/m3(asF-)		I				
HWTG Bleach & ALKALI COND.	Aqueous Phosphate	N.D-MSDS	N.D-MSDS	N.D-MSDS	N.E.A.	inside	<5 min	N	
Iron Standard Solution 1.00 mg/L	Ferric Chloride	<0.1	1mg/m3	N.D-MSDS	C.B	inside	<5 min	Acid	
	Demineralized Water	>99.0	N.E		N.E.A.				
	Other component	<0.1	N.E		Other				
ManVer Hardness Indicator	Propylene Glycol	90.0-100.0	N.E	N.D	N.E.A	inside	<30 min	Acid	
	Hydroxylamine								
	Hydrochloride	1.0-10.0	N.E		Toxic, I				

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Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
ManVer Hardness Indicator cont.	Isopropanol	<5.0	400ppm	N.D	F, I	inside	<30 min	Acid	
	Calmagite	<1.0	N.E		I				
Mixture of Hydroxide Form Anion Exchange Resin and Hydrogen Form Cation Exchange Resin.	Trimethylamie functionalized chlormethylated copolymer of Styrene and divinylbenzene in the hydroxide form.	20-50.0	N.D-MSDS		N.D-MSDS	inside	0	N/a	
	Sulfonated copolymer of styrene and divinylbenzene in the hydrogen form.	10-30.0	N.D-MSDS		N.D-MSDS				
	Water	40-70.0	N.D-MSDS		N.D-MSDS				
Napa Antifreeze	Ethylene glycol	90-95	50ppm	<0.1mmHg/20c	N.D-MSDS	in/out	<2 min	Base	
	Diethylene glycol	0-5.0	50ppm/8hr		N.D-MSDS				
	Dipotassium Phosphate	1-2.0	N.D-MSDS		N.D-MSDS				
Nitrocellulose Membrane filter Plain 47mm	Nirocellulose	w/w	N.E	N/A	F	inside	<2 min		
	Cellulose Acetate	w/w	N.E		N.E.A				
North Woods Blue Spruce	Hydrochloric Acid	9.0	5ppm	25mm Hg@68 F	N.D-MSDS	inside	<2 min	Acid	
	Quarernary Ammonium Chloride	0.051	N.E						
NitraVer 5 Nitrate Reagent	Potassium Phosphate	30.0-40.0	N.E	N/A	I	inside	<30 min	Acid	
	Other components	<1.0	N.E		Other				
	Cadmium	5.0-10.0	.005mg/m3		Toxic				
	Gentisic Acid	5.0-15.0	N.E		I				
	Magnesium Sulfate	5.0-15.0	N.E		I				
	Sulfanilic Acid	30.0-40.0	N.E		I				

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PAN Indicator Solution 0.1%	Octylphenoxypolyethoxyethanol	5.0-15.0	N.E	N/a	II	inside	<30 min	Base	
	Demineralized Water	35.0-45.0	N.E		N.E.A				
	Other Component	<1.0	N.E		Other				
	N,N-Dimethylformamide	25.0-35.0	10ppm (skin)		Toxic				
	Ammonium Acetate	15.0-25.0	N.E		I				
PhosVer 3 Phosphate Reagent	Potassium Pyrosulfate	75.0-85.0	N.E	N/a		inside	<30 min	Acid	
	Ascorbic Acid	15.0-25.0	N.E						
	Sodium Molybdate	1.0-10.0	5mg/m3 (asMo)						
	Other Components	0.1-1.0	N.E						
Potassium Chloride Reference Electrolyte Cartridge	Glycerin	35.0-45.0	10mg/m3 (mist)	N/D	I	inside	<2 min	Acid	
	Hydroxyethyl Cellulose	1.0-5.0	N.E		I				
	Demineralized Water	40.0-50.0	N.E		N.E.A				
	Other Component	<1.0	N.E		Other				
	Silver Chloride	<1.0	N.E		I				
	Potassium chloride	5.0-15.0	N.E		I				
Rochelle Salt Solution	Demineralized Water	45.0-55.0	N.E	N/D	N.E.A	inside	<5 min	N	
	Potassium Sodium Tartrate	45.0-55.0	N.E		I				
Shell Turbo Oil T 32	Highly refined mineral oils and Additives	<3.0	N.D-MSDS	<0.5 Pa at 20C/68F	N.E.A	inside	<30 min	N/A	
Silica Sand	Silica Quartz, SiO2	>89.0	0.05mg/m3/8hr	N/A	H	inside	0	N/a	
Sodium Chloride, salt	Sodium Chloride	60-100	N.E	0.1 kPa@ 865C	I	in/out	<10 min	N	
Sodium and Potassium Ionic strength Adjustor Powder	Tris-(Hydroxymethyl)-Aminomethane	40.0-50.0	N.E	N/A	I	inside	<30 min	Base	
	Magnesium Sulfate	60.0-70.0	N.E		I				

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Sodium Hypochlorite	Sodium Hypochlorite	10-15.6	1ppm as Cl <sub>2</sub>	N.D-MSDS	H, C.B	inside	<5 min	Base	
	Sodium Hydroxide	0.8	2mg/m <sup>3</sup> ceiling						
Sodium Standard Solution 100mg/L as Na	Sodium Chloride	<0.1	N.E	N/D	I	inside	<30 min	N	
	Deminerlized Water	>99.0	N.E		N.E.A				
	Other components	<0.1	N.E		Other				
SPADNS flouride Reagent	Hydrochloric Acid	30.0-40.0	5ppm Ceiling	N.D	C.B	inside	<30 min	Acid	
	Deminerlized Water	60.0-70.0	N.E		N.E.A				
	Other Components	<0.1	N.E		Other				
	sodium Arsenite	.001-0.1	0.01mg(As)/m <sup>3</sup>		Toxic				
SPADNS 2 Reagent For Flouride	Hydrochloric Acid	10.0-20.0	5ppm ceiling	N.D	C.B	inside	<30 min	Acid	
	Deminerlized Water	90.0-100.0	N.E		N.E.A				
	Other Components	<0.1	N.E		Other				
Sulfide 1 Reagent	Deminerlized Water	35.0-45.0	N.E	N.D	N.E.a	inside	0	Acid	
	Other Components	0.1-1.0	N.E		Other				
	Sulfuric Acid	55.0-65.0	1mg/m <sup>3</sup>		C.B				
Sulfide 2 Reagent	Deminerlized Water	>99.0	N.E	N.D	N.E.A	inside	0	Acid	
	Potassium Dichromate	0.1-1.0	5µg/m <sup>3</sup> /8Hr		T,C.B				
Sulfuric Acid Standard Solution 0.020N (N/50)	Deminerlized Water	>99.0	N.E	N.D	N.E.A	inside	<30 min	Acid	
	Other Components	<0.1	N.E		Other				
Titraver (EDTA) Standard solution 0.010M (0.020N)	Deminearlized Water	>99.0	N.E	N.D	N.E.A	inside	<30 min	Acid	
	Other components	0.01-0.1	N.E		Other				
	Ethylenediaminetetraacetic Acid, Disodium Salt	<1.0	N.E		I				
TPTZ Iron Reagent	Sodium Hydrosulfite	10.-20.0	N.E	N/A	F,I	Inside	<5 min	Acid	
	2,4,6-Tri-(2-Pyridyl)-1,3,5-Triazine 1:3 Salt with p-Toluenesulfonic acid	0.5-3.0	N.E		Toxic, I				

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## Portage Water Utility (Well 8)

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Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
Air Tool Oil	Petroleum-based Lubricating oil	N.D-MSDS	N.D-MSDS	<0.1@38c	N.D-MSDS	inside	<2 min	N.D	
Aluminum Cleaner and Brightner	Phosphoric acid	35.0-45.0	1mg/m3	N.D	N.D-MSDS	inside	<10 min	Acid	
	Poly(oxyethylene) nonylphenol	1.0-5.0	N.E	N.D					
Aquamag	Sodium Orhto	N.D-MSDS	N.D-MSDS	N/A	N.D-MSDS	inside	<5 min	Acid	
Carusol	Liquid Permanganate	19.5-21.0	5mg/m3	760mm/105c		inside	<5 min	N	
Diesel NO.2-D	C9-C20 Hydrocarbons	0-100	100mg/m3	N.D-MSDS	S.D	inside	<10 min	N.D	
	C11-C25 Hyd-dist	0-100	N.D-MSDS		N.D-MSDS				
	Hydrodesulfurized		200mg/m3		N.D-MSDS				
	Kerosine	0-45.0	8-hr twa		N.D-MSDS				
	C-9-c25 Hyd-dist	0-40.0	N.D-MSDS		N.D-MSDS				
	Kerosene	0-25.0	200mg/m3		N.D-MSDS				
	1,2,4-Trimethybenzene	0.3-1.0	25ppm/8hr		N.D-MSDS				
	Xylene	0-1.0	100ppm/8H		N.D-MSDS				
	Biphenyl	0-.75	0.2ppm/8H		N.D-MSDS				
	Naphthalene	0-0.3	10ppm/8H		S.D				
	Benzene	0-0.02	.5ppm/8H		S.D				
Dry spray lubricant and Release Agent	Isoparaffinic hydrocarbon	N.D-MSDS	400ppm	45psig/70F	I	inside	<5 min	N/A	
	Polytetrafluoroethylene	N.D-MSDS	10mg/m3		I				
	Liquified petroleum gas	N.D-MSDS	1800mg/m3		I				
ESA Total Washroom Cleaner	N.D-MSDS	N.D-MSDS	N.D-MSDS	5.65@68F	N.D-MSDS	inside	<5 min	Acid	
Fluorosilic Acid	H2 SIF8	23.0-27.0	2.5mg/m3(asF-)	24mmHg/77F	CR	inside	<5 min	Acid	
	Water	73.0-77.0			N.E.A				
Fremont 8802	Phosphoric Acid	23.0	1mg/m3	N.E	I	inside	<5 min	Acid	

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## Portage Water Utility (Well 8)

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Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
Inhibited Water Meter Cleaner	Hydrochloric Acid	15.0-25.0	5ppm C	N.D	C, I, C.B	inside	<2 min	Acid	
	Poly(oxyethylene)								
	Nonylphenol	<2.0	N.E						
Liqui-zyme(united 455)		N.D-MSDS	N.D-MSDS	N.D	N/H	inside	<2 min	N	
Napa Antifreeze	Ethylene glycol	90-95.0	50ppm	<0.1mmHg/20c	N.D-MSDS	in/out	<5 min	Base	
	Diethylene glycol	0-5.0	50ppm/8hr		N.D-MSDS				
	Dipotassium Phosphate	1-2.0	N.D-MSDS		N.D-MSDS				
North Woods Blue Spruce	Hydrochloric Acid	9.0	5ppm	25mm Hg@68 F	N.D-MSDS	inside	<2 min	Acid	
	Quarernary Ammonium Chloride	0.051	N.E						
Potassium (KMnO4) Permanganate(Cairox)	Potassium Permanganate	>97.5	5mgMn/m3	N/A	I	inside	<5 min	N.D	R
Primer-Metal Surface Etcher	Phosporic Acid	<30.0	5ppm	N.D	I	inside	<2 min	Acid	
Rectify	Hydrochloric Acid	7-13.0	7mg/m3	N/a	C,I	inside	<2 min	Acid	
Red Flint Sand and Gravel	Gravel	N.D-MSDS	N.D-MSDS	N.D-MSDS	N.D-MSDS	inside	0	N.D	
	Sand	N.D-MSDS	N.D-MSDS		N.D-MSDS				
Scrub Bugs	N.D-MSDS	N.D-MSDS	N.D-MSDS	N.D	N/H	inside	<2 min	Base	
Shell Turbo Oil T 32	Highly refined mineral oils and Additives	<3.0	N.D-MSDS	<0.5 Pa at 20C/68F	N.E.A	inside	<30 min	N/A	
Shower X-tra Power	Hydrogen peroxide	5-10.0	1.4mg/m3	N.D	I	inside	<2 min	Base	
	Sodium peborate tetrahydrate	1-5.0	N.E						

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Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
Silica Sand	Silica Quartz, SiO <sub>2</sub>	>89.0	0.05mg/m <sup>3</sup> /8hr	N/A	H	inside	0	N.D	
Sodium Chloride, salt	Sodium Chloride	60-100	N.E	0.1 kPa@ 865C	I	inside	<10 min	N	
Sodium Hypochlorite Gas	Sodium Hypochlorite	10-15.6	1ppm as Cl <sub>2</sub>	N.D-MSDS	H, C.B	inside	<5 min	Base	
	Sodium Hydroxide	0.8	2mg/m <sup>3</sup> ceiling						
Titraver (EDTA) Standard solution 0.010M (0.020N)	Deminearized Water	>99.0	N.E	N.D	N.E.A	inside	<30 min	Acid	
	Other components	0.01-0.1	N.E		Other				
	Ethylenediaminetetraacetic Acid, Disodium Salt	<1.0	N.E		I				
Tool cool	Acetone	30-60.0	750ppm	N.D	N.D-MSDS	inside	<5 min	N.D	
	Aliphatic hydrocarbon	30-60.0	400ppm		N.D-MSDS				
	Aliphatic hydrocarbon	5-10.0	400ppm		N.D-MSDS				
	Mineral Oil	5-10.0	5mg?m <sup>3</sup>		N.D-MSDS				
	Liquified petroleum gas	10-30.0	1000ppm		N.D-MSDS				
Water meter Brightener	Sodium Dichromate	5.0	2ppm	N.D	C.B, I	inside	<5 min	Acid	
	Nitric Acid	6.0	2ppm						
Wax-free mineral refriderant oil	Severly Hydrotreated Hvy. Naphthenic Petroleum oil	100	5mg/m <sup>3</sup> /8hr	N.D-MSDS	I	inside	<5 min	N	

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## Portage Water Utility (Shop)

### Respiratory Hazard Assessment and Respirator Selection

Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
Acetylene	Acetylene	100	2662mg/m3	635(psig)	F, C.B	outside	<15 min	N.D	
Acidex Descaler	Hydrochloric acid	7-13.0	5ppm	N.D	C.B	inside	<10 min	Acid	
Alex Plus Clear	Ethylene glycol	1.0-5.0	N.E	17.5mmHg/68F	I	in/out	<10 min	N.D	
	Triethoxysilane	0.0-0.1	N.E						
	Acetaldehyde	<.002	200ppm						
	Ammonia	<0.06	50ppm						
	Formaldehyde	<0.02	0.75ppm						
All Season T30 Select	N.D-MSDS	N.D-MSDS	N.D-MSDS	N.D-MSDS	N/H	in/out	<5 min	N.D	
Atl air tool Lubricant	Petroleum-based lubricating oil	N.D-MSDS	5mg/m3(mist)	<0.1/38C	I	in/out	<5 min	N.D	
Bug Deeterer	Propane	N.D-MSDS	1000ppm	N.E	I	in/out	<8 hrs	N/A	
	n-butane	N.D-MSDS	N.E						
	N,N-dimethyl-m-toluamide	N.D-MSDS	N.E						
	N-octyl bicycloheptene dicarboximide	N.D-MSDS	N.E						
	Di-n-propyl isocinchomeronate	N.D-MSDS	N.E						
	Isopropyl alcohol	N.D-MSDS	400ppm						
Can't bite me	Isopropanol	45-50.0	400ppm	N.D-MSDS	I	in/out	<8 hrs	N.D	
	Butane	15-20.0	N.D						
	Propane	5-10.0	1000ppm						
Caution Blue (Paint)	Liquified Petroleum (Gas)	25.0	1000ppm	N.D	F,I	outside	<4 hrs	N.D	
	Xylene	20.0	100ppm						
	Toluene	15.0	200ppm						
	Calcium Carbonate	15.0	15mg/m3						
	Ethylbenzene	5.0	100ppm						
	Titanium Dioxide	5.0	15mg/m3						
	VM&P Naphtha	5.0	300ppm						

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V = Voluntary (Organic Vapors/Acid Gases/P100)

N/H= Non-Hazardous

N/A= Not Applicable

N.E.A. = No effects anticipated

P.N.T= Practically Non-toxic

N.D-MSDS= Not Determined on M.S.D.S

Other = Any ingredient(s) of this product listed as "Other Component(s)" is not considered a health hazard to the user of this product.

N/a= Not Available

N/D= Not Determined

S.D= Skin Digestion

C.B= Causes Burns

N.E= Not Established

F= Flammable

P= Poison

I = Irritation

C= Combustible.

CR= Corrosive

H= Hazardous

N=Neutral Ph

## Portage Water Utility (Shop)

Respiratory Hazard Assessment and Respirator Selection									
Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
Degreaser and Engine cleaner	Mineral Spirits	>10.0	100ppm	N.D		in/out	<5 min	N/A	
	aromatic Naphtha	>10.0	400ppm						
	Xylene	<10.0	100ppm						
Diesel NO.2-D	C9-C20 Hydrocarbons	0-100	100mg/m3	N.D-MSDS	S.D	inside	<10 min	N.D	
	C11-C25 Hyd-dist	0-100	N.D-MSDS		N.D-MSDS				
	Hydrodesulfurized Kerosene	0-45.0	200mg/m3 8-hr twa		N.D-MSDS				
	C-9-c25 Hyd-dist	0-40.0	N.D-MSDS		N.D-MSDS				
	Kerosene	0-25.0	200mg/m3		N.D-MSDS				
	1,2,4-Trimethybenzene	0.3-1.0	25ppm/8hr		N.D-MSDS				
	Xylene	0-1.0	100ppm/8H		N.D-MSDS				
	Biphenyl	0-.75	0.2ppm/8H		N.D-MSDS				
	Naphthalene	0-0.3	10ppm/8H		S.D				
	Benzene	0-0.02	.5ppm/8H		S.D				
	Enviro blend FG33 Food grade grease	N.D-MSDS	N.D-MSDS		N.D-MSDS				
Gasoline	Unleaded, gasoline	100	300ppm/8hr	5.2-15psi@ 100F	S.D,C,F	in/out	<15 min	N	
	Xylene	1.0-15.0	100ppm/8hr						
	Toluene	1.0-15.0	50ppm/8hr 300ppm(ceiling)						
	Ethyl Alcohol	0-10.0	1000ppm/8hr						
	N-Hexane	0-7.0	50ppm/8hr						
	1,2,4-Trimethylbenzene	0-3.0	25ppm/8hr						
	Benzene	0-2.3	0.5ppm/8hr						

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N.D-MSDS= Not Determined on M.S.D.S      P= Poison

Other = Any ingredient(s) of this product listed as "Other Component(s)" is not considered a health hazard to the user of this product.

## Portage Water Utility (Shop)

Respiratory Hazard Assessment and Respirator Selection									
Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
Gasoline Cont.	Ethyl Benzene	0-2.0	100ppm/8hr	5.2-15psi@ 100F	S,D,C,F	in/out	<15 min	N	
	Cyclohexane	0-1.0	100ppm/8hr						
	Naphthalene	0-1.0	10ppm/8hr						
	Cumene	0-1.0	50ppm/8hr						
High Performance Industrial Enamel	Stoddard Solvents	40.0	500ppm	N.D-MSDS	C, I,	in/out	<6 hrs	N.E	Inside R  Out V
	Titanium Dioxide	20.0	10mg/m3						
	Tremolite(Nonasbestiform)	20.0	N.E						
	Magnesium silicate	15.0	15mg/m3						
	Serpentine	15.0	N.E						
	Pigment Yellow 74	10.0	N.E						
	Pigment Orange 5	5.0	5mg/m3						
	Pigment Yellow 73	5.0	2mg/m3						
	Pigment Black 7	5.0	3.5mg/m3						
	Anthophyllite(Nonasbestiform)	5.0	N.E						
Xylene	5.0	100ppm							
High Performance Industrial Enamel	Stoddard Solvents	50.0	500ppm	N.D-MSDS	C, I,	in/out	<6 hrs	N.E	Inside R  Out V
	Alkyd Resin Solution	30.0	N.D-MSDS						
	Titanium Dioxide	25.0	10mg/m3						
	Red Iron Oxide	10.0	15mg/m3						
	Magnesium Silicate	10.0	15mg/m3						
	Pigment Black 7	5.0	3.5mg/m3						
Industrial Rust Reformer	Tannic Acid	5.0	N.E	N.D-MSDS	I	in/out	<6 hrs	Acid	V
Knock Out	Fuel Oil	<81.0	5mg/m3	N.E	C, I	outside	<6 hrs	N/A	
	Aromatic Hydrocarbon	<13.0	100ppm						
	Diethylene Glycol								
	Monoethyl Ether	<5.0	N.E						
	Bromacil	0.98	N.E						
	Isooctyl 2-ethylhexylester of 2,4-D	1.09	10mg/kg						
	Naphthalene	<2.0	N.E						

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N/H= Non-Hazardous      S.D= Skin Digestion      CR= Corrosive  
N/A= Not Applicable      C.B= Causes Burns      H= Hazardous  
N.E.A. = No effects anticipated      N.E= Not Established      N=Neutral Ph  
P.N.T= Practically Non-toxic      F= Flammable  
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## Portage Water Utility (Shop)

### Respiratory Hazard Assessment and Respirator Selection

Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
Napa Antifreeze	Ethylene glycol	90-95.0	50ppm	<0.1mmHg/20c	N.D-MSDS	in/out	<5 min	Base	
	Diethylene glycol	0-5.0	50ppm/8hr		N.D-MSDS				
	Dipotassium Phosphate	1-2.0	N.D-MSDS		N.D-MSDS				
Napa Mac's Carb, Choke, and Throttle Body Cleaner	Propane	10.0	1000ppm	760mm	F, I	in/out	<2 min	N.D	
	Heptane	23.0	400ppm	50mm					
	Lt. Aliphatic Hydrocarbon Solvent	1.0	100ppm	53mm					
	Ethylbenzene	2.0	100ppm	7.1mm					
	Xylene	8.0	100ppm	5.9mm					
	Methyl Cyclohexane	1.0	400ppm	40mm					
	Acetone	55.0	1000ppm	180mm					
Napa Fuel Stabilizer	Additive Mixture	0-10.0	N.D-MSDS	3.0mmHG	F,I	inside	<2 min	N/A	
	Petroleum Distillate	90-100.0	N.D-MSDS						
Napa Thermo-Aid	Isopropanol	0-100.0	400ppm	97.0mmHg	F,I	in/out	<2 min	N/A	
			980mg/m3						
North Woods Blue Ox	N.D-MSDS	N.D-MSD	N.D-MSDS	N.D-MSDS	N.D-MSDS	inside	<30 min	Base	
North Woods Blue Spruce	Hydrochloric Acid	9.0	5ppm	25mm Hg@68 F	N.D-MSDS	inside	<2 min	Acid	
	Quarernary Ammonium Chloride	0.051	N.E						
North Woods Break Away	Carbon Dioxide	<5.0	5000ppm	15mmHg	I	in/out	<5 min	N/A	
	Tetrachloroethylene	<98	25ppm						
North Woods Fast Brake	Acetone	47-53.0	1000ppm	124mmHg	I	in/out	<5 min	N.D	
	Carbon Dioxide	1-4.0	5000ppm						
	Heptane	20-24.0	400ppm						
	Petroleum Naphtha VM&P	18-25.0	500ppm						
North Woods Grease	L.P.G	N.D-MSDS	1000ppm	124mmHg	I	in/out	<5 min	N/A	
	Heptane	N.D-MSDS	400ppm						

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## Portage Water Utility (Shop)

### Respiratory Hazard Assessment and Respirator Selection

Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
North Woods Power Stuff	N.D-MSDS	N.D-MSDS	N.D-MSDS	N.E	I	inside	<2 min	N/A	
North Woods Sparkle	2-Butoxyethanol	2-7.0	25ppm	46mmHg	I	inside	<15 min	N/A	
	Ethyl Alcohol	2-6.0	1000ppm						
	Nethyl Alcohol	1-4.0	200ppm						
	Propane/N-Butane	2-7.0	1000ppm						
North Woods Sun Block	N.D-MSDS	N.D-MSDS	N.D-MSDS	N/a	I	inside	<2 min	N/A	
North Woods Trail Blazer	Sodium Hydroxide	5-10.0	2mg/m3	N/a	CR, I, C.B	in/out	<30 min	Base	
	2-Butoxyethanol	0-5.0	25pmm						
	Tetrasodium EDTA	0-5.0	N/a						
	Nonionic Surfactant	0-5.0	N/a						
	Sodium Xylene Sulfonate	0-5.0	N/a						
	Tall Oil	0-5.0	N/a						
Ogle Swipes	2-Butoxyethanol	1-5.0	240mg/m3 50ppm	N/a	I	inside	<10 min	Base	
Oxygen	Oxygen	100	N.D-MSDS	N.D-MSDS	I	outside	<15 min	N.D	
Petroleum Lubricating Oil	Oil Mist in Air (not encountered in Normal usage)	N.D-MSDS	5mg/m3	<0.01	I	inside	<5 min	N.D	
Plant Pro	N.D-MSDS	N.D-MSDS	N.D-MSDS	23.75mmHg/25c	I	outside	<4 hrs	Base	
Propane	Propane	100	1800mg/m3 1000ppm	109psig	F, I	outside	<30 min	N.D	
ProtexAll	N.D-MSDS	N.D-MSDS	N.D-MSDS	>1.0	I	inside	<15 min	N	

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Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
Quick Peel	Carbon Dioxide	1-5.0	5000ppm 9000mg/m3	N/a	I	in/out	<5 min	N/a	
	D-Limonene	60-100.0	N.D-MSDS						
Real Seal Red	Dimethylsiloxane	80-90.0	N.D	N.D-MSDS	I	in/out	<5 min	N.D	
	Silica, Amorphous	5-15.0	10ppm						
	Ethyltriacetoxysilane	1-5.0	10mg/m3						
	Nethyltriacetoxysilane	1-5.0	N.D						
RIDGID Dark Thread Cutting Oil	Mineral Oil	>90	5mg/m3(mist)	N.D-MSDS	I	in/out	<2 min	N.D	
	Sulfur Additive Package	<10	N.D-MSDS						
Royal Touch Latex (High Hiding White)	Ethylene glycol	1-5.0	N.D-MSDS	17mmHg/20c	I	in/out	<6 hrs	Base	
Royal Latex Tintable Interior/Exterior Primer	2,2,4-trimethyl-1-1, 3-pentenediol mono (2-methylpropanoate	1-5.0	N.E	17mmHg/20c	I	in/out	<6 hrs	Base	
	Ethylene glycol	1-5.0	N.D-MSDS						
	Stoddard Solvent (Petroleum distillate, aliphatic)	1-5.0	100ppm 525mg/m3						
Rust-Oleum Hi Performance Idust. Enamel	Stoddard solvents	50.0	500ppm	N.D-MSDS	I	in/out	<6 hrs	N.E	Inside R Out V
	Titanium Dioxide	20.0	10mg/m3						
	Calcined Aluminum Silicate	20.0	5mg/m3						
	Pigment red 3	10.0	N.E						
	Pigment Orange 5	10.0	5mg/m3						
	Magnesium Silicate	10.0	15mg/m3						
	Pigment Yellow 74	10.0	N.E						
	Pigment Black 7	5.0	3.5mg/m3						
Shell Turbo Oil T 32	Highly refined mineral oils and Additives	<3.0	N.D-MSDS	<0.5 Pa at 20C/68F	N.E.A	inside	<30 min	N/a	

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Product Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Acid Base	Resp. R or V
Sharp Focus	2-Butoxyethanol	1-5.0	50ppm		I	inside	<2 min	N.D	
	Ethyl alcohol	1-5.0	1000ppm						
	Methyl alcohol	<1.0	200ppm						
	Liquified Petroleum gas mix.	1-5.0							
	Propane	48-55.0	100ppm						
	N-Butane	45-49.0	N.E						
	Isobutane	0.5-2.0	N.E						
Silicone Sealant (Ace 50yr)	Silica	11.0	20mg/m3	N.E	I	in/out	<5 min	N.E	
	Dimethylsiloxane,hydroxy-terminated	<60	N.E						
	Ethyltriacetoxysilane	2	N.E						
	Methyltriacetoxysilane	2	10ppm						
	Polydimethylsiloxane	1-5.0	10ppm						
	Titanium dioxide	2	15ppm						
	Non-Hazardous ingredients	>75	N/A						
Spackle Paste Interior Coumpound	Pregelatinized Starch	N.D-MSDS	N.D-MSDS	N.D-MSDS	I	inside	<15 min	N.D	
	Kaolin Clay	N.D-MSDS	N.D-MSDS						
	Vinyl Acetate Polymer	N.D-MSDS	N.D-MSDS						
	Water	N.D-MSDS	N.D-MSDS						
	Calcium Carbonate	N.D-MSDS	N.D-MSDS						
Speed Shore-1 Summer grade Concentrate	Hexahydro-1,3,5-tris (2-hydroxy ethyl)-s- triazine	<1.0	N.D-MSDS	N/a		outside	<5 min	N.D	
	Acid Green dye	<1.0	N.D-MSDS						
	water	10.0	N.D-MSDS						
	Dielhylene glycol	45.0	N.D-MSDS						
	4-methyl (2-pentanol)	5.0	N.D-MSDS						
	Alkanolamide	30.0	N.D-MSDS						
	Ethoxylated-N-Tallow Alkyltrimethylenediamines	5.0	N.D-MSDS						

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Speed Shore-1 Summer grade Concentrate Cont.	Oleyl Imidazoline	2.0	N.D-MSDS	N/a		outside	<5 min	N.D	
	Ethanoic Acid	5.0	N.D-MSDS						
	Sodium Triazole	<1.0	N.D-MSDS						
	Diethanolamine Phosphoramidate	<2.0	N.D-MSDS						
Val-Plex EP grease	Petroleum based Lithium Complex Grease	100	N.E	N/A	I	inside	<30 min	N/a	
Vinyl Spackling Cmpnd (Ace)	Aqueous Vinyl Acrylic Emulsion	<20	N.E	N.E	I	inside	<15 min	Base	
	Soda lime Borosilicate	<4	N.E						
	Calcium Carbonate	<70	15mg/m3						
	Amino Methyl Propanol	<0.10	N.E						
	Propylene Glycol	<1	N.E						
	Non-Hazardous Ingredients	<20	N/A						
Wasp Wacker	Isoparaffinic Hydrocarbon	80-90.0			F,I	outside	<2 min	N.D	
	Isopropanol	5-10.0							
	Carbon dioxide	1-5.0							
Wax-free Mineral refrigerant oil	Severely Hydrotreated heavy Naphthenic Petroleum oil	100	5mg/m3	N.D-MSDS	I	inside	<2 min	N	
Weather-Zyme	N.D-MSDS	N.D-MSDS	N.D-MSDS		I	outside	<5 min	N.D	

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