

**PORTAGE WASTEWATER TREATMENT PLANT**  
**Respiratory Hazard Assessment and Respirator Selection For “Solvents”**

Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
ADH	Propane Butane Hexane Isohexane Isomers Acetone	< 15 % < 7 % < 35 %  < 3 %  < 30 %	1000 ppm 800ppm 500ppm  None 1000ppm	None	Burns, Light Headed, may Cause Nervous system damage.	Large Room Good Venting Outdoors	Not in use	To be determined.
Aerosol Anti-Seize	Isoparaffinic Hydrocarbon Copper Compound Liquified Petroleum Gas	<20-40%  10-20%  40-60%	400ppm  None  1000ppm	45@70 F	Irritant Inhalation	Large Room Good Venting Outdoors	Seldom ,10Min when needed.	None
Anabonda	Tetrachloroethylene	60-80%	100ppmC	13mmHg	Irritant Inhalation	Large Room Good Venting	Seldom ,20Min when needed.	None
Blade Runner	Hexane Aliphatic petroleum distillates Liquified petroleum gas	35-45% 10-20%  35-45%	500ppm 300ppm  1000ppm	50psig	Irritant Inhalation Flammable	Large Room Good Venting outdoors	Seldom ,10Min when needed.	None
Break-A-way Penetrating Oil	Methylene Chloride Ethylene Glycol Monobutyl Ether Carbon Dioxide	None  None  None  None	50ppm  25ppm  5000ppm	80@25 C.	Irritant Inhalation	Large Room Venting Outdoor	Seldom <15Min	None

Comments:

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Bug Deeterer Bug Spray	Isopropyl alcohol	30-40%	400ppm	None	Irritant Inhalation Flammable	Large Room Good Venting outdoors	Seldom, Summer when needed. <5min	None
	Liquified petroleum gas	20-25%	None					
	N,N Diethyl-m-toluamide	25%	1000ppm					
	N-Octyl bicycloheptene dicarboximide	5%	None					
	Di-n-Propyl Isocinchomeronate	2.5%	None					
	Di-methyl ketone	1-5%	1000ppm					
Citrain Floor drain treatment	d-1,8(9)-p-menthadiene	80_100%	None	1mmHg	Irritant Inhalation	Large Room Good Venting	Seldom when needed. <5min	None
Cold zinc spray galvanizer	Toluene	30-40%	200ppm	60psig @72F	Irritant Inhalation Ingestion burning Flammable	Large Room Good Venting	Seldom, 15Min when needed.	None
	Zinc	10-20%	10mg/m <sup>3</sup>					
	Petroleum distillates	1-10%	3 500ppm					
	Hydrotreated, light Liquefied petroleum gas	35-45%	1000ppm					

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Dry Spray Lubricant	Isoparaffinic Hydrocarbon	45-55%	281ppm	45Psig	Irritant Inhalation Ingestion Flammable	Large Room Good Venting	Seldom ,10Min when needed.	None
	2,2-Dichloro-1,1,1,2,2-pentafluoropane	1-10%	None					
	Polytetrafluoroethylene	1-10%	10mg/m <sup>3</sup>					
	Liquefied Petroleum Gas	40-50%	1000ppm 1800mg/m <sup>3</sup>					
Formulflex	Toluene	<32%	50PPm	20mmHg@20C.	Flammable Irritant	Large Room Venting	Seldom <30 Min.	None
	Aromatic Hydrocarbon	<22%	None					
	Tetrachloroethylene	<11%	25ppm					
Four Way Action	Perchloroethylene	>70%	100ppm	95mmHg@70C.	Irritant Inhalation	Large Room Venting	Seldom <30 Min.	None
	Paraffinic Solvent	<20%	5ppm					
	2-Butoxyethanol	<10%	50ppm					
	Carbon Dioxide	<10%	5000ppm					
Gasguard	Xylene	10-30%	100ppm	22.8mmhg@70 F.	Irritant Inhalation	Large Room Venting Outdoor	Seldom <5Min.	None
	Ethyl Benzene	30-60%	100ppm					
	Isopropanol	10-30%	400ppm					
	Hydrotreated Light Distillate	None	5mg/m <sup>3</sup>					
	Hydrotreated Heavy Distillate	None	5mg/m <sup>3</sup>					
	2,6-DI-Tert-Butylphenol Imadazoline	1-5%	None					
Gel Air Freshener	Isopropyl Alcohol	None	400ppm	17.5	Low Health Risk	None	None	None
	Propane/N-Butane	None	1000ppm					

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General gel	Hexane	40-65%	50ppm	None	Flammable Irritant	Large Room Venting Outdoor	Seldom <30Min	None
	Petroleum Distillates	30-50%	5mg/m3					
	Aliphatic Hydrocarbon	30-50%	5mg/m3					
	Propane/isobutene/n-Butane	30-50%	1000ppm					
Germicidal Disinfectant	Ethanol	50-60%	1000ppm	125@ 130 F.	Irritant Inhalation Low Health Risk	Large Room Venting Outdoor	2xWeek <30Min	None
	Methanol	None	200ppm					
	p-tert-Amylphenol	0.0-0.1%	None					
	o-Phenylphenol	0.1-0.5%	None					
	Sodium Nitrate	0.1-0.5%	None					
	Ammonium Hydroxide	0.0-0.5%	50ppm					
	Liquefied Petroleum Gas	25.0-30%	1000ppm					
Hyd Fluid Petroleum	Tri Cresyl Phosphate	<1%	3mg/m3	<0.01m mHg@2 0C.	Irritant Low Health Risk	None	Seldom 2Xyear <15Min	None
Industrial Solvent Heavy Duty	2-Butoxyethanol	None	25ppm	None	Inhalation Irritant	Large Room Good Venting Outdoors	Seldom <10Min Industrial Solvent	None
	Sodium Metasilicate	None	2mg/m3					
	Diethanolamine	None	3ppm					

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Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
Keynote	Sodium Metasilicate	1-5%	None	18mm Hg	Absorbed Irritant	Large Room Good Venting Outdoors	Seldom <30Min Industrial Solvent	None
	2-Butoxyethanol	1-5%	50ppm					
	1-EDTA	1-10%	None					
	2-Aminoethanol	1-10%	None					
	Dodecylbenzene Sulfonate							
	Nonylphenoxyl Polyethoxyethanol	1-5%	None					
Water	>50%	None						
Knock Out Herbicide	Fuel Oil	<81%	5mg/m3	None	Combustible Irritant Inhalation	Outdoor	2X Year 2-3 Hours	None
	Aromatic Hydrocarbon	<13%	100ppm					
	Diethylene Glycol Monoethyl Ether	<5%	None					
	Bromacil	0.98%	None					
	Isooctyl 2-Ethylhexyl ester of 2,4-D Naphthalene	1.09%	10mg/kg					
		<2%	None					
Liquid Electrical Tape	Epoxy	None	None	None	Flammable Irritant Ingestion	Venting Outdoor	Seldom <20Min	None
	Carbonoxlate Methyl Carbonoxlate		None					
	Diethylene Glycol Dibenzoate							
	Xylene		750ppm					
	Acetone		100ppm					
	2-Butanone		None					

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Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
Meta-Lox Part A	Bisphenol-A/Epichlorohydrin Resin Crystalline Silica Aluminum Bisphenol-A Base epoxy Resin Siloxanes and Silicones, Di-Me	None	None  0.7mg/m <sup>3</sup>  5mg/m <sup>3</sup> None  2mg/m <sup>3</sup>	<0.01	Irritant Ingestion Inhalation	Large Room Venting Outdoor	Seldom <15Min	None
Meta-Lox Part B	Calcium Carbonate Siloxanes and Silicones, Di-Me Fatty Acids, c-18 unsaturated, Dimers Polyethylene Polyamines Crystalline Silica	None	None  None  None  0.45mg/m <sup>3</sup>	0.07mm/Hg	Corrosive Irritant Ingestion Inhalation	Large Room Venting Outdoor	Seldom <15Min	None
Motor Fuel Petro	Benzene Toluene Ethyl Benzene Xylene 1,2,4-Trimethyl Benzene Isopentane n-Butane Ethanol	<2% 1-35% <4%  1-10% 0.5-2.5%  <20% <10% <20%	10ppm 100ppm 100ppm  100ppm 25ppm  None 800ppm 1000ppm	7.8-15psia @ 100F.	Flammable Irritant Low Health Risk	Venting Outdoor	Fuel Equipment Weekly <15Min	None
MVP Cleaner	Isobutane/Propane Blend Mineral Oil	None	800ppm  5mg/m <sup>3</sup>	None	Irritant Inhalation Low Health Risk	Large Room Venting	Seldom 1-3 Hours	None

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Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
North Woods Natures Wayll( Solvent Degreaser)	Petroleum Distillates	100%	100ppm	<20m mHg@ 68F	Irritant Inhalation	Venting Outdoors	Weekly <30Min	None
	Low Odor Base Solvent	25-30%	100ppm					
North Woods Armor Kote	Toluene	20-30%	100ppm	45psi @72F	Irritant Inhalation	Large Room Venting	Seldom 3xYear 1-3Hours	None
	Aliphatic Petroleum Distillate	10-20%	500ppm					
	Aliphatic Petroleum Solvent	5-15%	300ppm					
	Calcium Carbonate	1-10%	15mg/m3					
	Carbon Black Liquefied Petroleum Gas	1-10%	3.5mg/m3					
North Woods Bug Off	Isopropyl Alcohol	<45%	400ppm	70mm Hg	Irritant Inhalation	Outdoors	Summer	None
	L.P.G.	None	1000ppm					
North Woods Control	Carbon Dioxide	None	5000ppm	>1mm Hg	Irritant Inhalation	Large Room Venting Outdoors	Seldom <15Min	None
	Isoparafinic Hydrocarbon		400ppm					
North Woods De-Ice	Carbon Dioxide	None	5000ppm	<95	Irritant	Outdoors Venting	Seldom Winter <5Min	None
	Ethylene Glycol		None					
	Isoproyl Alcohol		400ppm					
	Methyl Alcohol		200ppm					

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Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
North Woods Sun Fresh	Isoproyl Alcohol	50-60%	400ppm	35psig @ 68F	Irritant	Venting	Daily <5Min	None
	L.P.G.	20-30%	1000ppm					
	Monoethanola mine	0-5%	6ppm					
	Sodium Nitrite	0.4%	None					
North Woods Devour Body Fluid Absorbent	None	None	None	None	Irritant	None	Seldom <15Min	None
North Woods Direct Hit Wasp Spray	Carbon Dioxide Low odor pet. Distillates	<5%	5000ppm	1mmHg	Irritant Inhalation	Venting Outdoors	Seldom <15Min	None
		<98%	5mg/m3					
North Woods Ice Floe Plus	None	None	None	None	Irritant	Outdoors	Winter Seldom 1Hour	None
North Woods Natures Blend( Natural Solvent Degreaser)	Citrus Terpene Nonylphenol Ethoxylate Carbon Dioxide Propellant	80-90%	400ppm	78 mmHg	Irritant Inhalation	Venting Outdoors	Seldom <30Min	None
		10-20%	None					
		1-5%	10,000ppm					

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Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
North Woods Nilla(Air &Fabric Neutralizer)	L.P.G. Odorless Mineral Spirits	None	1000ppm 300ppm	44 mmHg	Irritant Inhalation	Venting Outdoors	Weekly <30Min	None
North Woods One Touch(Aerosol polish)	L.P.G. Petroleum Distillates	25-30% 15-20%	1000ppm 200ppm	None	Irritant	Venting	Seldom <30Min	None
North Woods Organix Natural Gel	None	None	None	None	Irritant	Venting	Seldom <30Min	None
North Woods Power Stuff(Hand Cleaner with Pumice)	None	None	None	None	Irritant	Venting	Daily <5Min	None
North Woods Tef Lube	L.P.G. Odorless Mineral Spirits	None	1000ppm 300ppm	30 mmHg	Irritant Inhalation	Venting	Seldom <30Min	None

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Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
Orange Degreaser	None	None	None	None	Irritant Inhalation	Venting	Seldom <30Min	None
OrangeGel	Propane Butane Citrus Oil	<5% <12% <25%	1000ppm 800ppm None	None	Inhalation	Venting Outdoors	Seldom 1-2 Hours	None
Ortho Ant Stop	Propane/Isobutane Hydrotreated Heavy Naphtha Aromatic Hydrocarbon Blend	None None None	1800mg/m <sup>3</sup> None None	None	Irritant Inhalation	Venting Outdoors	Seldom <30Min	None
PC-3 Epoxy	Diglycidyl Ether of Bisphenol A Sodium Aluminosilicate Triphenyl Phosphite Silica Amorphous Magnesium Oxide	50-55% 25-30% 5-10% 2-5% 1-3%	None None None 10mg/m <sup>3</sup> 10mg/m <sup>3</sup>	None	Irritant	Venting Outdoors	Seldom <30Min	None
Peels-Plus	Citrus Terpene Nonylphenol Ethoxylate Carbon Dioxide Propellant	80-90% 10-20% 1-5%	None None 5000ppm	78psig @ 72F	Irritant Inhalation	Venting Outdoors	Seldom <30Min	None

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Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
PlantPRO 52 Concentrate (Liquid enzymes)	None	None	None	None	Irritant	Venting Outdoors	Seldom <30Min	None
Propylene Glycol Antifreeze	Propylene Glycol	99.0%	None	None	Inhalation Irritant	Venting Outdoors	Seldom 1Xyear <30Min	None
Prep-A-Lube	Isoparaffinic Hydrocarbon	60-80%	400ppm	None	Irritant	Venting Outdoors	Seldom 5Xyear 1-3Hours	None
	Liquified Petroleum Gas	20-40%	1000ppm					
	Lithium Grease	5-10%	None					
Pulse Aerosol Deodorizers	Acetone	40-50%	None	78psig	Inhalation Irritant	Venting	Monthly <10Min	None
	Propane	20-30%	1000ppm					
	Hexylene Glycol	5-10%	None					
Quick Peel	D-Limonene Fragrance Carbom Dioxide	90-95% 1-5% 1-5%	None None 5000ppm	None	Burns Irritant Inhalation	Venting Outdoors	Seldom 1-3 Hours	None

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Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
Rebound Aerosol	Toluene Aliphatic Petroleum Distillate Propane Butane Calcium Carbonate Petroleum Asphalt Hydrous Aluminum Silicate Hydrated Aluminum Magnesium Silicate Crystalline Silica Carbon Black	None None None None None None None None None None None	200ppm 500ppm 1000ppm 1000ppm None 5mg/m <sup>3</sup> 5mg/m <sup>3</sup> None None None 3.3mg/m <sup>3</sup>	68psig	Inhalation Irritant Absorption Flamable	Venting Outdoors	Seldom 1- 3Hours	None
Red Grease	Isoparaffinic Hydrocarbon Lithium Grease Liquified Petroleum Gas	60-80% 5-10% 20-40%	400ppm None 1000ppm	50psig @70F	Inhalation Irritant	Venting Outdoors	Monthly 1- 3Hours	None
RTV	Amorphous Silica Methyl tri(ethylmethylketoxime) Silane Am inoethylaminopropyl Trimethoxysilane Dimethoxymethylsilane(ethylmethylketoxime)	<15% <10% <5% <5%	10mg/m <sup>3</sup> None None 200ppm	None	Irritant Inhalation Flammable	Venting Outdoors	Seldom 1Hour	None
RTV Clear	Propane Butane Amorphous Silica Calcium Carbonate	<3% <4% <13% <42%	2500ppm 800ppm 10mg/m <sup>3</sup> 10mg/m <sup>3</sup>	None	Irritant Inhalation Flammable	Venting Outdoors	Seldom 1Hour	None

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Stainless Steel Cleaner	Aliphatic hydrocarbon	<50%	300ppm	None	Irritant Inhalation Flammable	Venting Large Room	Seldom 6xYear 1-2 Hours	None
	D’Limonene	<50%	None					
	Propane	1-10%	800ppm					
	Butane	1-10%	1000ppm					
	Isobutane	1-10%	None					
Steel Max	Aliphatic hydrocarbon	17-27%	100ppm	None	Irritant Inhalation Flammable	Venting Large Room	Seldom 2xYear 2 Hours	None
	Butane	2-12%	1000ppm					
	Methyl Chloroform	36-46%	350ppm					
	Propane	2-12%	1000ppm					
	Polyurethane resin Solution	10%						
Stomp Insecticide	Tetramethrin	None	9000mg/	None	Irritant Ingestion Inhalation	Venting Outdoor	Seldom <5Min	None
	Permethrin		m3					
	Piperonyl Butoxide		None					
	Petroleum Distillates		None					
	Carbon Dioxide		5000ppm					
Stop-Gap Gray Sealent	n-Butyl acetate	1-5%	150ppm 710mg/ m3	None	Irritant Inhalation Flammable	Venting Large Room	Seldom <30min	None
Paint, Solvent Base	Xylene	9.875%	100ppm	5.1mm Hg@68	Irritant Inhalation Flammable	Venting Large Room	Seldom <30min	None
	n-Butyl Acetate	10-15%	150ppm					
	Ethylbenzene	2.5%	125ppm					

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T97 Ant & roach Killer	Petroleum Distillate Diazinon Pyrethrins N-Octyl Bicycloheptene Dicarboximide Piperonyl Butoxide Carbon Dioxide	90-95% <1% <1% <1% <1% 1-5%	500ppm None 5mg/m3 None None 10000ppm	130@130F	Irritant Inhalation Flammable	Venting Large Room OutDoors Wash Hands before eating	Seldom <10min	None
Tefla-Pent	Carbon Dioxide Isoparaffinic Hydrocarbon Mineral Oil Mineral Spirits Naphthenic Petroleum Dist	None None None None None	5000ppm 400ppm 5mg/m3 500ppm 5mg/m3	<0.01	Inhalation Irritant Absorption Flammable	Venting Large Room OutDoors	Seldom 2 Hours	None
United139 Aerosol Dry Spray Lub	Isoparaffinic Hydrocarbon 2,2-Dichloro-1,1,1,2,2-pentafluoropropane Polytetrafluoroethylene Liquefied Petroleum Gas	45-55% 1-10% 1-10% 40-50%	281ppm None 10mg/m3 1000ppm	45psig	Irritant Inhalation Flammable	Large Room Good Venting Outdoors	Seldom ,10Min when needed.	None
United188 Aerosol Anti-Seize Compound	Acetone Copper Isoparaffinic Hydrocarbon Isoparaffinic Hydrocarbon Liquefied Petroleum Gas	10-20% 10-20% 1-10% 1-10% 5-45%	1000ppm 1mg/m3 None None 1000ppm	40@72F	Irritant Inhalation Ingestion Flammable	Large Room Good Venting	Seldom ,10Min when needed.	None

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Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
United 125 All Stick	Acetone n-Hexane Methyl acetate Propane n-Butane	15-20% 10-15% 5-8% 20-30% 15-20%	1000ppm 500ppm 200ppm 1000ppm None	None	Irritant Inhalation Flammable	Large Room Good Venting	Seldom ,20Min when needed.	None
United 156 Cold Zinc Spray Galvanizer	Toluene Zinc Petroleum Distillates hydrotreated light Liquefied Petroleum gas	30-40% 10-20% 1-10% 34-45%	200ppm 10mg/m <sup>3</sup> 500ppm 1000ppm	60psig @72F	Irritant Inhalation Flammable	Large Room Good Venting	Seldom when needed. <15min	None
United 768-769 Double Duty	Fragrance Oil Isoparaffinic Hydrocarbon	40-70% 30-60%	None	None	Irritant	None	When needed <15min	None
United 199 Everlast	Aliphatic petroleum solvent Calcium Carbonate Toluene Xylene Ethyl benzene Carbon Black Crystalline Silica Propane/n-Butane	10-30% 10-30% 10-15% 1-15% 0.1-0.5% 1-2% <0.5% 20-40%	500ppm 15mg/m <sup>3</sup> 200ppm 100ppm 100ppm 3.5mg/m <sup>3</sup> 3 10mg/m <sup>3</sup> 3 1000ppm	74psig	Irritant Inhalation Flammable	Large Room Good Venting	Seldom when needed. <15min	None
United 386 Green shield	Mineral oil	60-100%	5mg/m <sup>3</sup>	None	Irritant	Large Room Good Venting	Seldom when needed. <15min	None
United 686 Kool red Grease	Petroleum Oil Mixture	60-100%	5mg/m <sup>3</sup>	<0.01	Irritant Inhalation	Large Room Outdoors	Seldom When needed <15min	None

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United 120 Goober Lube	Hexane Acetone Ethylene/propylene Copolymer Isobutene Propane Petrolatum	20-40% 20-40% 15-35% 5-15% 5-15% 5-15%	50ppm 500ppm None None 2500ppm None	None	Irritant Inhalation Flammable	Large Room Good Venting	Seldom when needed. 5-15min	None
United 678 Jungle Wips Insecticide Cloths	Isopropanol N,N-diethyl-m-toluamide N-Octyl bicycloheptene dicarboximide Di-n-propyl Isocinchomerate	45-55% 12.33% 3.52% 1.76%	400ppm None None None	None	Irritant Inhalation Flammable	Large Room Outdoors	Seldom Summer When needed <5min	None
United 686 Kool red Grease	Petroleum Oil Mixture	60-100%	5mg/m3	<0.01	Irritant Inhalation	Large Room Outdoors	Seldom When needed <15min	None
United 101 Moisture Barrier	Isoparaffinic hydrocarbon Food grade mineral oil Octamethylcyclotetrasiloxane Dipropylene glycol monomethyl ether Carbon dioxide	60-100% 1-5% 1-5% 1-5% 1-5%	200ppm 5mg/m3 None 100ppm 5000ppm	68psig	Irritant Inhalation	Large Room Outdoors	Seldom When needed <15min	None
United 961 Polymer Solvent	Monoethanolamine	7-13%	3ppm 6mg/m3	None	Irritant Inhalation Ingestion burning	Large Room Good Venting	Seldom When needed 1-3 Hours	None

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United 286 Quicksilver	Tin Silver Bismuth Petroleum Glycerine Zinc ammonia chloride	<80 <5 <5 <29 <6 <2	2mg/m3 10up/m3 None None None 1mgFU/ME/m3	None	Irritant Inhalation	Large Room Good Venting	Seldom When needed 1Hours	None
United 961 Silicone Lubricant	Acetone Heptane Propane/N-Butane	35-45% 10-20% 35-42%	1000ppm 400ppm None	>36mm Hg	Irritant Inhalation Flammable	Large Room Good Venting	Seldom When needed <20Min	None
United 180 Solv-All	Citrus Terpene Poly-(oxy-1,2-ethanedyl)-alpha-undecyl-omega Alcohols,C12 - 13,ethoxylated Carbon Dioxide Propellant	80-90% ~10  ~10 1-10%	None None  None 5000ppm	90psig	Irritant Inhalation Flammable	Large Room Good Venting	Seldom When needed <20Min	None
United 215 Surround	None	None	None	None	Irritant	Large Room	Seldom when needed. 1Hours	None
United 526 Vandal Mark Remover	Ethylene glycol monobutyl ether d-1,8(9)-p-menthadiene N-Methyl-2-pyrrolidinone Amyl acetate 2-Methyl butyl acetate	30-60%  30-60% 5-10% 3-7% 3-7%	50ppm  None None 100ppm None	None	Irritant Inhalation	Large Room Good Venting Outdoors	Seldom When needed 1-3 Hours	None

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Unleaded Fuel	Xylenes Toluene N-Hexane Benzene 1,2,4-Trimethylbenzene Ethylbenzene Cyclohexane Cumene Naphthalene	25% 20% 7% 3% 3% 2% 1% 1% 1%	200ppm 200ppm 500ppm None 25ppm 100ppm 300ppm 50ppm 10ppm	348-698 mmHg	Inhalation Irritant Flammable	Venting OutDoor	<15 min to fill Equipment up.	None
United 180 Solv-All	Citrus Terpene Poly-(oxy-1,2-ethanedyl)-alpha-undecyl-omega Alcohols,C1213 ,ethoxylated Carbon Dioxide Propellant	80-90% ~10 ~10 1-10%	None None None 5000ppm	90psig	Irritant Inhalation Flammable	Large Room Good Venting	Seldom When needed <20Min	None
United 215 Surround	None	None	None	None	Irritant	Large Room	Seldom when needed. 1Hours	None
United 526 Vandal Mark Remover	Ethylene glycol monobutyl ether d-1,8(9)-p-menthadiene N-Methyl-2-pyrrolidinone Amyl acetate 2-Methyl butyl acetate	30-60% 30-60% 5-10% 3-7% 3-7%	50ppm None None 100ppm None	None	Irritant Inhalation	Large Room Good Venting Outdoors	Seldom When needed 1-3 Hours	None

Comments:

# PORTAGE WASTEWATER TREATMENT PLANT

## Respiratory Hazard Assessment and Respirator Selection For “Solvents”

Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
Unleaded Fuel	Xylenes	25%	200ppm	348-698 mmHg	Inhalation Irritant Flammable	Venting OutDoor	<15 min to fill Equipm ent up.	None
	Toluene	20%	200ppm					
	N-Hexane	7%	500ppm					
	Benzene	3%	None					
	1,2,4- Trimethylbenzene	3%	25ppm					
	Ethylbenzene	2%	100ppm					
	Cyclohexane	1%	300ppm					
	Cumene	1%	50ppm					
	Naphthalene	1%	10ppm					

Comments:



