Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical Name	Contents	%	Exposure Limit	Vapor Pressur e	Hazard	Condition Of Use	Duration	Respirator Required or
								Voluntary
ADH	Propanc Butane Hexane Isohexane Isomers Acetone	< 15 % < 7 % < 35 % < 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 determine d.
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	Tetrachloroeth ylene	60-80%	100ppmC	13mmH g	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 Penetratin g 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

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name	Contents	70	Limit	Pressure	Tazara	Of Use	Duration	Required
Ivanic			Lillit	1 icssuic		Of Osc		or
								Voluntary
Dua	Iconropyl	30-40%	400ppm	None	Irritant	Lorgo	Seldom	None
Bug	Isopropyl	30-40%	400ppiii	None		Large		None
Deeterer	alcohol	20. 25.07	N.T.		Inhalation	Room	,Summe	
Bug Spray	Liquified	20-25%	None		Flammable	Good	r	
	petroleum	• • •	1000			Venting	when	
	gas	25%	1000ppm			outdoors	needed.	
	N,N Diethy-						<5min	
	m-	5%	None					
	toluamide							
	N-Octyl							
	bicyclohept							
	ene	2.5%	None					
	dicarboximi							
	de							
	Di-n-Propyl	1-5%	1000ppm					
	Isocinchom							
	eronate							
	Di-methyl							
	ketone							
Citrain	d-1,8(9)-p-	80_100%	None	1mmHg	Irritant	Large	Seldom	None
Floor drain	menthadien	_		υ	Inhalation	Room	when	
treatment	e					Good	needed.	
						Venting	<5min	
Cold zinc	Toluene	30-40%	200ppm	60psig	Irritant	Large	Seldom	None
spray	Zinc	10-20%	10mg/m	@72F	Inhalation	Room	,15Min	2,0220
galvanizer	Petroleum	1-10%	3		Ingestion	Good	when	
garvanizer	distillates	1 10 /6	500ppm		burning	Venting	needed.	
	Hydrotreate		Cooppin		Flammable	, chang	necaca.	
	d,light							
	Liquefied	35-45%						
	petroleum	33-43 /0	1000ppm					
	_		Toooppiii					
	gas							

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

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Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name			Limit	Pressure		Of Use		Required
								or
								Voluntary
Dry	Isoparaffinic	45-55%	281ppm	45Psig	Irritant	Large	Seldom	None
Spray	Hydrocarbon		FF	8	Inhalation	Room	,10Min	
Lubricant	2,2-Dichloro-	1-10%	None		Ingestion	Good	when	
Labricant	1,1,1,2,2-	1 1070	TAORE		Flammable	Venting	needed.	
					Taillillaule	venning	necucu.	
	pentafluoropa							
	ne	1 100	10 /					
	Polytetrafluor	1-10%	10mg/m					
	oethylene		3					
	Liquefied	40-50%						
	Petroleum		1000ppm					
	Gas		1800mg/					
			m3					
Formufle	Toluene	<32%	50PPm	20mmH	Flammable	Large	Seldom	None
X	Aromatic	<22%	None	g@20C.	Irritant	Room	<30	
	Hydrocarbon			8		Venting	Min.	
	Tetrachloroet	<11%	25ppm			, chiang	1,7777	
	hylene	<b>VII</b> 70	23ppm					
Four Way	Perchloroethy	>70%	100ppm	95mmH	Irritant	Large	Seldom	None
•	_	<i>&gt;1070</i>	тоорріп	g@70C.	Inhalation	Room	<30	None
Action	lene	-2007	£	g@70C.	Illiaiation			
	Paraffinic	<20%	5ppm			Venting	Min.	
	Solvent	400						
	2-	<10%	50ppm					
	Butoxyethano							
	1							
	Carbon	<10%	5000ppm					
	Dioxide							
Gasguard	Xylene	10-30%	100ppm	22.8mm	Irritant	Large	Seldom	None
	Ethyl	30-60%	100ppm	hg@70	Inhalation	Room	<5Min.	
	Benzene		11	F.		Venting		
	Isopropanol	10-30%	400ppm			Outdoor		
	Hydrotreated		FF					
	Light	None	5mg/m3					
	Distillate	None	Jiligillis					
	Hydrotreated							
	_	None	5mg/m2					
	Heavy	rione	5mg/m3					
	Distillate							
	2,6-DI-Tert-	1.50						
	Butylphenol	1-5%	None					
	Imadazoline							
Gel Air	Isopropyl	None	400ppm	17.5	Low	None	None	None
Freshener	Alcohol				Health			
	Propane/N-	None	1000ppm		Risk			
	Butane		_					
			1	1	1	l .	<u> </u>	1

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
General gel	Hexane Petroleum Distillates Aliphatic Hydrocarbon Propane/isobu tene/n-Butane	40-65% 30-50% 30-50% 30-50%	50ppm 5mg/m3 5mg/m3 1000ppm	None	Flammable Irritant	Large Room Venting Outdoor	Seldom <30Min	None
Germicid al Disinfect ant	Ethanol Methanol p-tert- Amylphenol o- Phenylphenol Sodium Nitrate Ammonium Hydroxide Liquefied Petroleum Gas	50-60% None 0.0-0.1% 0.1-0.5% 0.1-0.5% 0.0-0.5% 25.0-30%	1000ppm 200ppm None None None 50ppm 1000ppm	125@ 130 F.	Irritant Inhalation Low Health Risk	Large Room Venting Outdoor	2xWeek <30Min	None
Hyd Fluid Petroleu m	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- Butoxyethano 1 Sodium Metasilicate Diethanolami ne	None None None	25ppm 2mg/m3 3ppm	None	Inhalation Irritant	Large Room Good Venting Outdoors	Seldom <10MinI ndustrial Solvent	None

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

	Contents	%					Duration	1
Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name			Limit	Pressure		Of Use		Required
								or
								Voluntary
Keynote	Sodium	1-5%	None	18mm	Absorbed	Large	Seldom	None
	Metasilicate			Hg	Irritant	Room	<30MinI	
	2-	1-5%	50ppm			Good	ndustrial	
	Butoxyethano					Venting	Solvent	
	1					Outdoors		
	EDTA	1-10%	None					
	2-	1-10%	None					
	Aminoethanol							
	Dodecylbenze							
	ne Sulfonate							
	Nonylphenox	1-5%	None					
	V	2 0 70	1,0110					
	Polyethoxyeth							
	anol							
	Water	>50%	None					
	vv atci	25070	None					
Knock	Fuel Oil	<81%	5mg/m3	None	Combustib	Outdoor	2X Year	None
Out	Aromatic	<13%	100ppm	TVOIC	le	Outdoor	2-3	None
Herbicide	Hydrocarbon	<13 / <i>0</i>	Тоорріп		Irritant		Hours	
Herbicide	•	<5%	None		Inhalation		Hours	
	Diethylene	<5%	None		Illialation			
	Gylcol							
	Monoethyl							
	Ether	0.000	NT					
	Bromacil	0.98%	None					
	Isooctyl 2-	1.09%	10mg/kg					
	Ethylhexyl							
	ester of 2,4-D	_						
	Naphthalene	<2%	None					
Liquid	Epoxy	None	None	None	Flammable	Venting	Seldom	None
Electrical	Carbonoxlate				Irritant	Outdoor	<20Min	
Tape	Methyl				Ingestion			
	Carbonoxlate							
	Diethylene		None					
	Glycol							
	Dibenzoate							
	Xylene		750ppm					
	Acetone		100ppm					
	2-Butanone		None					
i .	i l		l .			l	I	1

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name			Limit	Pressure		Of Use		Required
								or
								Voluntary
Meta-Lox	Bisphenol-	None	None	< 0.01	Irritant	Large	Seldom	None
PartA	A/Epichloroh				Ingestion	Room	<15Min	
	ydrin Resin				Inhalation	Venting		
	Crystalline		0.7mg/m			Outdoor		
	Silica		3					
	Aluminum							
	Bisphenol-A		5mg/m3					
	Base epoxy		None					
	Resin							
	Siloxanes							
	andSilicones,		2mg/m3					
	Di-Me							
Meta-Lox	Calcium	None	None	0.07mm	Corrosive	Large	Seldom	None
Part B	Carbonate			/Hg	Irritant	Room	<15Min	
	Siloxanes		None		Ingestion	Venting		
	andSilicones,				Inhalation	Outdoor		
	Di-Me		None					
	Fatty Acids,c-							
	18		None					
	unsaaturated,							
	Dimers							
	Polyethylene							
	Polyamines		0.45mg/					
	Crystalline		m3					
	Silica							
Motor	Benzene	<2%	10ppm	7.8-	Flammable	Venting	Fuel	None
Fuel	Toluene	1-35%	100ppm	15psia	Irritant	Outdoor	Equipm	
Petro	Ethyl	<4%	100ppm	@	Low		ent	
	Benzene			100F.	Health		Weekly	
	Xylene	1-10%	100ppm		Risk		<15Min	
	1,2,4-	0.5-2.5%	25ppm					
	Trimethy	• 0 ~						
	Benzene	<20%						
	Isopentane	<10%	None					
	n-Butane	<20%	800ppm					
MAND	Ethanol	NT	1000ppm	N.T.	т :	T	0.11	NT.
MVP	Isobutane/Pro	None	800ppm	None	Irritant	Large	Seldom	None
Cleaner	paneBlend		5m alas 2		Inhalation	Room	1-3	
	Mineral Oil		5mg/m3		Low	Venting	Hours	
					Health			
					KISK			
					Risk			

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical Name	Contents	%	Exposure Limit	Vapor Pressu	Hazard	Condition Of Use	Duration	Respirator Required
				re				or
								Voluntary
North	Petroleum	100%	100ppm	<20m	Irritant	Venting	Weekly	None
Woods	Distillates	25 200	100	mHg@	Inhalation	Outdoors	<30Min	
Natures	Low Odor	25-30%	100ppm	68F				
Wayll(	Base Solvent							
Solvent								
Degrease								
r)	T. 1	20.20%	100	45 .	<b>T</b> • · · ·	<b>.</b>	0.11	3.7
North	Toluene	20-30%	100ppm	45psi	Irritant	Large	Seldom	None
Woods	Aliphatic	10-20%	500ppm	@72F	Inhalation	Room	3xYear	
Armor	Petroleum					Venting	1-	
Kote	Distillate	5 1501	200				3Hours	
	Aliphatic Petroleum	5-15%	300ppm					
	Solvent							
	Calcium	1-10%	15mg/m3					
	Carbonate	1-10 /6	13111g/1113					
	Carbon Black	1-10%	3.5mg/m3					
	Liquefied	1-1076	3.3mg/m3					
	Petroleum	20-40%	1000ppm					
	Gas	20 40 /0	тооорріп					
	Gus							
North	Isopropyl	<45%	400ppm	70mm	Irritant	Outdoors	Summer	None
Woods	Alcohol			Hg	Inhalation			
Bug Off	L.P.G.	None	1000ppm					
North	Carbon	None	5000ppm	>1mm	Irritant	Large	Seldom	None
Woods	Dioxide			Hg	Inhalation	Room	<15Min	
Control	Isoparafinic		400ppm			Venting		
	Hydrocarbon					Outdoors		
North	Carbon	None	5000ppm	<95	Irritant	Outdoors	Seldom	None
Woods	Dioxide					Venting	Winter	
De-Ice	Ethylene		None				<5Min	
	Glycol							
	Isoproyl		400ppm					
	Alcohol		• • •					
	Methyl		200ppm					
	Alcohol							

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

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

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name			Limit	Pressure		Of Use		Required
								or
								Voluntary
North	L.P.G.	None	1000ppm	44	Irritant	Venting	Weekly	None
Woods	Odorless			mmHg	Inhalation	Outdoors	<30Min	
Nilla(Air	Mineral		300ppm					
&Fabric	Spirits							
Neutraliz								
er)								
North	L.P.G.	25-30%	1000ppm	None	Irritant	Venting	Seldom	None
Woods	Petroleum	15-20%	200ppm				<30Min	
One	Distillates							
Touch(A								
erosol								
polish)								
North	None	None	None	None	Irritant	Venting	Seldom	None
Woods							<30Min	
Organix								
Natural								
Gel								
North	None	None	None	None	Irritant	Venting	Daily	None
Woods							<5Min	
Power								
Stuff(Han								
d Cleaner								
with								
Pumice)			1000				~ 11	
North	L.P.G.	None	1000ppm	30 mmHg	Irritant	Venting	Seldom	None
Woods	Odorless		200		Inhalation		<30Min	
Tef Lube	Mineral		300ppm					
	Spirits							

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name	Contents	10	Limit	_	Hazaiu	Of Use	Duration	_
Name			Lillit	Pressure		Of Use		Required
								or V-1
	N	N.T.	N.T.	N.T.	T	<b>3</b> 7	0.11	Voluntary
Orange	None	None	None	None	Irritant	Venting	Seldom	None
Degrease					Inhalation		<30Min	
r								
OrangeG	Propane	<5%	1000ppm	None	Inhalation	Venting	Seldom	None
el	Butane	<12%	800ppm			Outdoors	1-2	
	Citrus Oil	<25%	None				Hours	
Ortho	Propane/Isobu	None	1800mg/	None	Irritant	Venting	Seldom	None
Ant Stop	tane		m3		Inhalation	Outdoors	<30Min	
	Hydrotreated	None						
	Heavy		None					
	Naphtha							
	Aromatic	None						
	Hydrocarbon		None					
	Blend							
PC-3	Diglycidyl	50-55%	None	None	Irritant	Venting	Seldom	None
Epoxy	Ether of					Outdoors	<30Min	
	Bisphenol A							
	Sodium							
	Aluminosilica	25-30%	None					
	te							
	Triphenyl	5-10%	None					
	Phosphite							
	Silica	2-5%	10mg/m					
	Amorphos		3					
	Magnesium	1-3%						
	Oxide		10mg/m					
			3					
Peels-	Citrus	80-90%	None	78psig	Irritant	Venting	Seldom	None
Plus	Terpene			@	Inhalation	Outdoors	<30Min	
	Nonylphenol	10-20%	None	72F				
	Ethoxylate							
	Carbon	1-5%	5000ppm					
	Dioxide		11					
	Propellant							
	1		1	I		1	1	<u>.                                    </u>

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical Name	Contents	%	Exposure Limit	Vapor Pressure	Hazard	Condition Of Use	Duration	Respirator Required or Voluntary
PlantPRO 52 Concentr ate (Liquid enzymes)	None	None	None	None	Irritant	Venting Outdoors	Seldom <30Min	None
Propylen e Glycol Antifreez e	Propylene Glycol	99.0%	None	None	Inhalation Irritant	Venting Outdoors	Seldom 1Xyear <30Min	None
Prep-A- Lube	Isoparaffinic Hydrocarbon Liquified Petroleum Gas Lithium Grease	60-80% 20-40% 5-10%	400ppm 1000ppm None	None	Irritant	Venting Outdoors	Seldom 5Xyear 1- 3Hours	None
Pulse Aerosol Deodoriz ers	Acetone Propane Hexylene Glycol	40-50% 20-30% 5-10%	None 1000ppm None	78psig	Inhalation Irritant	Venting	Monthly <10Min	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

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical			ssment a					
3 T	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name			Limit	Pressure		Of Use		Required
								or
								Voluntary
Rebound	Toluene	None	200ppm	68psig	Inhalation	Venting	Seldom	None
Aerosol	Aliphatic	None	500ppm		Irritant	Outdoors	1-	
	Petroleum				Absorption		3Hours	
	Distillate				Flamable			
	Propane	None	1000ppm					
	Butane	None	1000ppm					
	Calcium	None	None					
	Carbonate							
	Petroleum	None	5mg/m3					
	Asphalt							
	Hydrous	None	5mg/m3					
	Aluminum							
	Silicate							
	Hydrated	None	None					
	Aluminum							
	Magnesium							
	Silicate							
	Crystalline	None	None					
	Silica							
	Carbon Black	None	3.3mg/m					
			3					
Red I	Isoparaffinic	60-80%	400ppm	50psig	Inhalation	Venting	Monthly	None
Grease I	Hydrocarbon			@70F	Irritant	Outdoors	1-	
	Lithium	5-10%	None				3Hours	
	Grease							
	Liquified	20-40%	1000ppm					
	Petroleum							
	Gas							
RTV	Amorphous	<15%	10mg/m	None	Irritant	Venting	Seldom	None
RTV	Amorphous Silica	<15%	10mg/m 3	None	Irritant Inhalation	Venting Outdoors	Seldom 1Hour	None
	Amorphous Silica Methyl	<15% <10%	_	None		_		None
tr	Amorphous Silica Methyl i(ethylmethylke		_	None	Inhalation	_		None
tr	Amorphous Silica Methyl		3	None	Inhalation	_		None
tr 1	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr	<10%	3	None	Inhalation	_		None
tr i	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl	<10%	3 None	None	Inhalation	_		None
tr i	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr	<10%	3 None	None	Inhalation	_		None
tr ir T	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl 'rimethoxysilan e	<10%	3 None	None	Inhalation	_		None
tr ii T	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl	<10% <5%	3 None	None	Inhalation	_		None
tr ii T D ls	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl Crimethoxysilan e simethoxymethy ilane(ethylmeth ylketoxime)	<10% <5%	None None 200ppm		Inhalation Flammable	Outdoors	1Hour	
tr ii T D ls	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl Trimethoxysilan e vimethoxymethy ilane(ethylmeth ylketoxime) Propane	<10% <5% <5%	None None 200ppm 2500ppm	None	Inhalation Flammable Irritant	Outdoors	1Hour Seldom	None
tr in T D ls RTV Clear	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl Trimethoxysilan e vimethoxymethy ilane(ethylmeth ylketoxime) Propane Butane	<10% <5% <5% <3% <4%	None None 200ppm 2500ppm 800ppm		Inhalation Flammable Irritant Inhalation	Outdoors	1Hour	
tr in T D ls RTV Clear	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl Trimethoxysilan e simethoxymethy ilane(ethylmeth ylketoxime) Propane Butane Amorphous	<10% <5% <5%	None None 200ppm 2500ppm 800ppm 10mg/m		Inhalation Flammable Irritant	Outdoors	1Hour Seldom	
tr in T D ls RTV Clear	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl rimethoxysilan e vimethoxymethy ilane(ethylmeth ylketoxime) Propane Butane Amorphous Silica	<10% <5% <5% <3% <4% <13%	None None 200ppm 2500ppm 800ppm		Inhalation Flammable Irritant Inhalation	Outdoors	1Hour Seldom	
tr in T D ls RTV Clear	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl Trimethoxysilan e vimethoxymethy ilane(ethylmeth ylketoxime) Propane Butane Amorphous Silica Calcium	<10% <5% <5% <3% <4%	None None None 200ppm 2500ppm 800ppm 10mg/m 3		Inhalation Flammable Irritant Inhalation	Outdoors	1Hour Seldom	
tr in T D ls RTV Clear	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl rimethoxysilan e vimethoxymethy ilane(ethylmeth ylketoxime) Propane Butane Amorphous Silica	<10% <5% <5% <3% <4% <13%	3 None None 200ppm 2500ppm 800ppm 10mg/m 3		Inhalation Flammable Irritant Inhalation	Outdoors	1Hour Seldom	
tr in T D ls RTV Clear	Amorphous Silica Methyl i(ethylmethylke toxime) Silane Am noethylaminopr opyl Trimethoxysilan e vimethoxymethy ilane(ethylmeth ylketoxime) Propane Butane Amorphous Silica Calcium	<10% <5% <5% <3% <4% <13%	None None None 200ppm 2500ppm 800ppm 10mg/m 3		Inhalation Flammable Irritant Inhalation	Outdoors	1Hour Seldom	

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name			Limit	Pressure		Of Use		Required
								or
								Voluntary
Stainless	Aliphatic	<50%	300ppm	None	Irritant	Venting	Seldom	None
Steel	hydrocarbon				Inhalation	Large	6xYear	
Cleaner	D'Limonene	<50%	None		Flammable	Room	1-2	
	Propane						Hours	
	Butane	1-10%	800ppm					
	Isobutane	1-10%	1000ppm					
		1-10%	None					
Steel	Aliphatic	17-27%	100ppm	None	Irritant	Venting	Seldom	None
Max	hydrocarbon				Inhalation	Large	2xYear	
	Butane	2-12%	1000ppm		Flammable	Room	2	
	Methyl	36-46%	350ppm				Hours	
	Chloroform							
	Propane	2-12%	1000ppm					
	Polyurethane	10%						
	resin Solution							
Ctoman	Tetramethrin	None	0000	None	Tunitont	Vantina	Seldom	None
Stomp		None	9000mg/	None	Irritant	Venting		None
Insecticid	Permethrin		m3		Ingestion	Outdoor	<5Min	
e	Piperonyl Butoxide		None		Inhalation			
	Petroleum		None					
	Distillates		None					
	Carbon		None					
	Dioxide		5000ppm					
Stop-Gap	n-Butyl	1-5%	150ppm	None	Irritant	Venting	Seldom	None
Gray	acetate		710mg/	1 10110	Inhalation	Large	<30min	Tione
Sealent	acetate		m3		Flammable	Room	<b>3011111</b>	
Paint,	Xylene	9.875%	100ppm	5.1mm	Irritant	Venting	Seldom	None
Solvent	n-Butyl	10-15%	150ppm	Hg@68	Inhalation	Large	<30min	Tione
Base	Acetate	10 15 /0	150ppiii	ligeto	Flammable	Room	35011111	
Dasc	Ethylbenzene	2.5%	125ppm		Tammaoic	Room		
	Larytochizene	2.5 /0	125ppm					

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

	Contants					1	Duration	
Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name			Limit	Pressure		Of Use		Required
								or
								Voluntary
T97 Ant	Petroleum	90-95%	500ppm	130@13	Irritant	Venting	Seldom	None
& roach	Distillate			0F	Inhalation	Large	<10min	
Killer	Diazinon	<1%	None		Flammable	Room		
	Pyrethrins	<1%	5mg/m3			OutDoors		
	N-Octyl	<1%	None			Wash		
	Bicyclohepten					Hands		
	e					before		
	Dicarboximid					eating		
	e					Cating		
	Piperonyl	<1%	None					
	Butoxide	<1 / <i>0</i>	None					
		1 507	10000					
	Carbon	1-5%	10000pp					
~	Dioxide		m					
Tefla-	Carbon	None	5000ppm	< 0.01	Inhalation	Venting	Seldom	None
Pent	Dioxide				Irritant	Large	2 Hours	
	Isoparafinic	None	400ppm		Absorption	Room		
	Hydrocarbon				Flammable	OutDoors		
	Mineral Oil							
	Mineral	None	5mg/m3					
	Spirits	None	500ppm					
	Naphthenic							
	Petroleum	None	5mg/m3					
	Dist		8.					
United13	Isoparaffinic	45-55%	281ppm	45psig	Irritant	Large	Seldom	None
9	Hydrocarbon	13 33 76	20199111	15 psig	Inhalation	Room	,10Min	Trone
Aerosol	2,2-Dichloro-	1-10%	None		Flammable	Good	when	
	1,1,1,2,2-		None		Tallillable		needed.	
Dry						Venting	needed.	
Spray	pentafluoropr					Outdoors		
Lub	opane		10 /					
	Polytetrafluor	1-10%	10mg/m					
	oethylene		3					
	Liquefied	40-50%						
	Petroleum		1000ppm					
	Gas							
United18	Acetone	10-20%	1000ppm	40@72	Irritant	Large	Seldom	None
8	Copper	10-20%	1mg/m3	F	Inhalation	Room	,10Min	
Aerosol	Isoparaffinic	1-10%	None		Ingestion	Good	when	
Anti-	Hydrocarbon				Flammable	Venting	needed.	
Seize	Isoparaffinic	1-10%	None					
Compoun	Hydrocarbon	= 4=~						
d	Liquefied	5-45%	1000ppm					
	Petroleum		Tooppin					
	Gas							
	Gas							

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

	Contents					•	Dunation	
Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name			Limit	Pressure		Of Use		Required
								or
								Voluntary
United12	Acetone	15-20%	1000ppm	None	Irritant	Large	Seldom	None
5	n-Hexane	10-15%	500ppm		Inhalation	Room	,20Min	
All Stick	Methyl	5-8%	200ppm		Flammable	Good	when	
	acetate					Venting	needed.	
	Propane	20-30%	1000ppm					
	n-Butane	15-20%	None					
United	Toluene	30-40%	200ppm	60psig	Irritant	Large	Seldom	None
156	Zinc	10-20%	10mg/m	@72F	Inhalation	Room	when	
Cold Zinc	Petroleum	1-10%	3		Flammable	Good	needed.	
Spray	Distillates		500ppm			Venting	<15min	
Galvaniz	hydrotreated		11					
er	light							
	Liquefied	34-45%						
	Petroleum gas	0.1.076	1000ppm					
United	Fragrance Oil	40-70%	None	None	Irritant	None	When	None
768-769	Isoparaffinic	30-60%	rvone	Tione	IIIItant	Trone	needed	Trone
Double	Hydrocarbon	30 00 %					<15min	
Duty	Trydrocaroon						\1311III	
United	Aliphatic	10-30%	500ppm	74psig	Irritant	Large	Seldom	None
199	-	10-3070	Зоорріп	74psig	Inhalation	Large Room	when	None
	petroleum							
Everlast	solvent	10.200	15 /		Flammable	Good	needed.	
	Calcium	10-30%	15mg/m			Venting	<15min	
	Carbonate	10 150	3					
	Toluene	10-15%	200					
	Xylene	1-15%	200ppm					
	Ethyl benzene	0.1-0.5%	100ppm					
	Carbon Black		100ppm					
	Crystalline	1-2%						
	Silica		3.5mg/m					
	Propane/n-	<0.5%	3					
	Butane							
		20-40%	10mg/m					
			3					
			1000ppm					
United	Mineral oil	60-100%	5mg/m3	None	Irritant	Large	Seldom	None
386						Room	when	
Green						Good	needed.	
shield						Venting	<15min	
Silioid						, 51111115	31211111	
United	Petroleum Oil	60-100%	5mg/m3	<0.01	Irritant	Large	Seldom	None
686	Mixture	00 100 /0	51115/1115	VO.01	Inhalation	Room	When	TOIL
Kool red	IVIIALUIC				Imaaaton	Outdoors	needed	
Grease						Outdoors	<15min	
Grease							<b>/13111111</b>	

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name	Contents	70	Limit	Pressure	Tazara	Of Use	Duration	Required
Tame			Limit	11033410		01 030		or
								Voluntary
United	Hexane	20-40%	50ppm	None	Irritant	Large	Seldom	None
120	Acetone	20-40%	500ppm	TVOIC	Inhalation	Room	when	TVOILE
Goober	Ethylene/prop	15-35%	None		Flammable	Good	needed.	
Lube	ylene	13-33 /0	None		Tallillable	Venting	5-15min	
Luoc	Copolymer					Venting	J-1311111	
	Isobutene	5-15%	None					
	Propane	5-15%	2500ppm					
	Petrolatum	5-15% 5-15%	None					
United				None	Tunitorat	Tours	Seldom	Nama
678	Isopropanol	45-55%	400ppm	None	Irritant	Large		None
	N,N-diethyl-	12.33%	None		Inhalation	Room	Summer	
Jungle	m-toluamide				Flammable	Outdoors	When	
Wips	N-Octyl	2.520	N.T.				needed	
Insecticid	bicyclohepten	3.52%	None				<5min	
e Cloths	e							
	dicarboximide							
	Di-n-propyl							
	Isocinchomer	1.76						
	onate	1.76%	None	0.01			~ 1.1	
United	Petroleum Oil	60-100%	5mg/m3	< 0.01	Irritant	Large	Seldom	None
686	Mixture				Inhalation	Room	When	
Kool red						Outdoors	needed	
Grease							<15min	
United	Isoparaffinic	60-100%	200ppm	68psig	Irritant	Large	Seldom	None
101	hydrocarbon				Inhalation	Room	When	
Moisture	Food grade					Outdoors	needed	
Barrier	mineral oil	1-5%	5mg/m3				<15min	
	Octamethylcy							
	clotetrasiloxa	1-5%	None					
	ne							
	Dipropylene							
	glycol	1-5%	100ppm					
	monomethyl							
	ether							
	Carbon							
	dioxide	1-5%	5000ppm					
United	Monoethanola	7-13%	3ppm	None	Irritant	Large	Seldom	None
961	mine		6mg/m3		Inhalation	Room	When	
Polymer					Ingestion	Good	needed	
Solvent					burning	Venting	1-3	
							Hours	

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

	Spiratory 11a					•	Donetton	1
Chemical	Contents	%	Exposure	Vapor	Hazard	Condition	Duration	Respirator
Name			Limit	Pressure		Of Use		Required
								or
								Voluntary
United	Tin	<80	2mg/m3	None	Irritant	Large	Seldom	None
286	Silver	<5	10up/m3		Inhalation	Room	When	
Quicksilv	Bismuth	<5	None		Imaaaton	Good	needed	
_			None					
er	Petroleum	<29				Venting	1Hours	
	Glycerine	<6	None					
	Zinc ammonia	<2	1mgFU/					
	chloride		ME/m3					
United	Acetone	35-45%	1000ppm	>36mm	Irritant	Large	Seldom	None
961	Heptane	10-20%	400ppm	Hg	Inhalation	Room	When	
Silicone	Propane/N-	35-42%	None		Flammable	Good	needed	
Lubricant	Butane					Venting	<20Min	
Edonediit	Butune					Venting	220171111	
United	Citrus	80-90%	None	90psig	Irritant	Large	Seldom	None
180	Terpene	~10	None	Jopsig	Inhalation	Room	When	TAOILE
	-	~10	None					
Solv-All	Poly-(oxy-				Flammable	Good	needed	
	1,2-					Venting	<20Min	
	ethanedyl)-							
	alpha-	~10	None					
	undecyl-							
	omega	1-10%	5000ppm					
	Alcohols,C12							
	-							
	13,ethoxylate							
	ď							
	Carbon							
	Dioxide							
	Propellant							
I Inited		Nana	None	None	Imitorat	Longs	Coldo	None
United	None	None	None	None	Irritant	Large	Seldom	None
215						Room	when	
Surround							needed.	
							1Hours	
United	Ethylene	30-60%	50ppm	None	Irritant	Large	Seldom	None
526	glycol				Inhalation	Room	When	
Vandal	monobutyl					Good	needed	
Mark	ether					Venting	1-3	
Remover	d-1,8(9)-p-	30-60%	None			Outdoors	Hours	
	menthadiene							
	N-Methyl-2-	5-10%	None					
	pyrrolidinone	2 10/0	1,0110					
	Amyl acetate	3-7%	100ppm					
	2-Methyl	3-7% 3-7%	None					
	•	3-170	INOILE					
	butyl acetate							

Respiratory Hazard Assessment and Respirator Selection For "Solvents"

Chemical	Contents	%			Hazard	Condition	Duration	1
	Contents	70	Exposure	Vapor	Пагаги		Duration	Respirator
Name			Limit	Pressure		Of Use		Required
								or
								Voluntary
Unleaded	Xylenes	25%	200ppm	348-698	Inhalation	Venting	<15 min	None
Fuel	Toluene	20%	200ppm	mmHg	Irritant	OutDoor	to fill	
	N-Hexane	7%	500ppm		Flammable		Equipm	
	Benzene	3%	None				ent up.	
	1,2,4-	3%	25ppm					
	Trimethylbenze							
	ne							
	Ethylbenzene	2%	100ppm					
	Cyclohexane	1%	300ppm					
	Cumene	1%	50ppm					
	Naphthalene	1%	10ppm					
United	Citrus Terpene	80-90%	None	90psig	Irritant	Large	Seldom	None
180	Poly-(oxy-1,2-	~10	None	3 4 7 - 8	Inhalation	Room	When	2,022
Solv-All	ethanedyl)-	10	1,0110		Flammable	Good	needed	
BOIT THI	alpha-undecyl-				1 idiiiiidoic	Venting	<20Min	
	omega					venting	220171111	
	Alcohols,C1213	~10	None					
	,ethoxylated	10	None					
	Carbon Dioxide	1-10%	5000nnm					
		1-10%	5000ppm					
	Propellant							
TT 1, 1	N.T.	) T	NT	N.T.	T '	T	0.11	N.T.
United	None	None	None	None	Irritant	Large	Seldom	None
215						Room	when	
Surround							needed.	
		20 50 51	7.0			_	1Hours	
United	Ethylene glycol	30-60%	50ppm	None	Irritant	Large	Seldom	None
526	monobutyl ether				Inhalation	Room	When	
Vandal	d-1,8(9)-p-	30-60%	None			Good	needed	
Mark	menthadiene					Venting	1-3	
Remover	N-Methyl-2-	5-10%	None			Outdoors	Hours	
	pyrrolidinone							
	Amyl acetate	3-7%	100ppm					
	2-Methyl butyl	3-7%	None					
	acetate							
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Respiratory Hazard Assessment and Respirator Selection For "Solvents"

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