



Manufacturer's Declaration

June 20th, 2018

We hereby declare the following:

- Palziv North America's non FR grades of Fuzion and Vizion do not contain any restricted or reportable substances as listed Table 1: Restricted (P) and Reportable (D) Substances per GMW3059 (May 1998 Rev.).

Table 1 - Restricted (F) and Reportable (D) Substances- List in Alphabetical Order

Substance	Category	CAS No.	Rating	Note	Example - occurrence
Acetamide	Acetamide	000060-35-5	D		solvent admixture, softener stabilizer
Acrylamide	Acrylamide	000079-06-1	D		residual monomer
Acrylonitrile	Acrylonitrile	000107-13-1	D	Will be F in the future.	residual monomer
Actinolite	Fibers/Asbestos	13768-00-8	F	QU 000004	friction lining, gaskets, insulation
o-Aminoazotoluene Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4-Aminobiphenyl	Aminobiphenyl, 4-	000092-67-1	D	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4-Aminobiphenyl Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2-Amino-4-nitrotoluene Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Amosite	Fibers/Asbestos	12172-73-5	F	QU 000004	friction lining, gaskets, insulation
Aniline	Aniline	000062-53-3	D		dye
Aniline Salts	Aniline	Group	D		
Anthophyllite	Fibers/Asbestos	17068-78-9	F	QU 000004	friction lining, gaskets, insulation
Antimony	Metals	7440-36-0	D		



Antimonous trioxide	Flame retardant	001309-64-4	D		flame retardant
Arsenic	Metals		D		
Arsenic compounds	Metals	Group	D > 400 ppm		metal refinement, metal adhesive, leather and textile refinement, wood preservative, color and melting coating
Auramine	Auramine	000492-80-8	D		cotton
Barium	Metals		D		
Barium compounds except Barium sulfate	Metals	Group	D		pigments, additives in lubricants
Benidine	Azo dye	000092-87-5	F > 100 ppm	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Benidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Benzo(a)anthracene	Benzo(a)pyrene and other PAH	000056-55-3	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(b)fluoranthene	Benzo(a)pyrene and other PAH	000205-99-2	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(j)fluoranthene	Benzo(a)pyrene and other PAH	000205-82-3	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(k)fluoranthene	Benzo(a)pyrene and other PAH	000207-08-9	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Benzo(a)pyrene	Benzo(a)pyrene and other PAH	000050-32-8	D > 1 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Beryllium	Metals		D		
Beryllium compounds	Metals	Group	D		electronic parts
Brominated flame retardants	Flame retardants	Group	D		
Bromochlorodifluoromethane (Halon 1211)	CFC	000353-59-3	F	QU 000003	refrigerating or foaming agent, propellant
Bromotrifluoromethane (Halon 1301)	CFC	000075-63-8	F	QU 000003	refrigerating or foaming agent, propellant
1,3-Butadiene	Butadiene	000106-99-0	D		residual monomer
Butyl benzyl phthalate (BBP)	Phthalates	000085-68-7	D		
Cadmium	Metals	007440-43-9	F > 75 ppm, D ≤ 75 ppm	QU 000001 Only if intentionally added for D	pigments, polymer stabilizer, surface protection of metals



Cadmium compounds	Metals	Group	F > 75 ppm, D ≤ 75 ppm	QU 000001 Only if intentionally added for D	pigments, polymer stabilizer, surface protection of metals
Carbon Tetrachloride	CFC	000056-23-5	F		
Chloraniline	Chloraniline	Group	D		hardener or cross linkage agent for polymers and epoxy resin
p-Chloraniline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Chlorepoxypropane (Epichlorohydrin)	Chlorepoxypropane (Epichlorohydrin)	000106-89-8	D		residual monomer
Chlorinated Biphenyl (PCB)	Polychlorinated compounds	Including 001336-36-3	F		softener, impregnating agent, insulation liquid
Chlorocresol (ortho-)	Biocides	1570-64-5	D		
Chlorocresol (meta-)	Biocides	59-50-7	D		
2-Chloro-1,1-Difluoroethane	HCFC	338-65-8	F		
1-Chloro-1,2-Difluoroethane	HCFC	338-64-7	F		
1-Chloro-1,1-Difluoroethane	HCFC	75-68-3	F		
Chlorodifluoromethane (R22)	HCFC	000075-45-6	F	QU 000003	refrigerating or foaming agent, propellant
Chlorodifluoropropane	HCFC	134190-53-7	F		
Chlorofluoroethane	HCFC	110587-14-9	F		
Chlorofluoromethane (R31)	HCFC	000593-70-4	F	QU 000003	refrigerating or foaming agent, propellant
Chlorofluoropropane	HCFC	134190-54-8	F		
Chlorohexafluoropropane	HCFC	28987-04-4	F		
Chloroparaffin, unbranched, (C ₁₀ H _{22-n} Cl _n where n = 1 ... 8 to C ₃₀ H _{62-n} Cl _n where n = 1 ... 28)	Flame retardant	Group	D		flame retardant, plasticizer
Chloropentafluoroethane (R115)	CFC	000076-15-3	F	QU 000003	refrigerating or foaming agent, propellant
Chloropentafluoropropane	HCFC	108662-83-5	F		
2-Chloro-1,1,1,2-Tetrafluoroethane	HCFC	2837-89-0	F		
1-Chloro-1,1,2,2-Tetrafluoroethane	HCFC	354-25-6	F		
Chlorotetrafluoropropane	HCFC	134190-50-4	F		



4-Chloro toluidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
1-Chloro-1,2,2-Trifluoroethane	HCFC	431-07-2	F		
2-Chloro-1,1,1-Trifluoroethane	HCFC	75-88-7	F		
1-Chloro-1,1,2-Trifluoroethane	HCFC	421-04-5	F		
Chlorotrifluoromethane (R13)	CFC	000075-72-9	F	QU 000003	refrigerating or foaming agent, propellant
Chlorotrifluoropropane	HCFC	26588-23-8	F		
Chromium	Metals	007440-47-3	D	Alloys exempt	alloying component
Chromium(VI)-Salt	Metals	Group	D > 0.01 $\mu\text{g}/\text{cm}^2$	Will be F Jan. 1, 2003 Test method: GMW3034	chrome pigments, surfaces chromed
Chrysotile	Fibers/Asbestos	12001-29-5	F	QU 000004	friction lining, gaskets, insulation
Cobalt	Metals	007440-48-4	D		alloy metal
Colophony (Rosin)	Colophony	8050-09-7	D		
Copper	Metals	007440-50-8	D	Alloys, electronics, and wiring exempt	
Copper compounds	Metals	Group	D	Alloys, electronics, and wiring exempt	stabilizer
Creosote	Creosote	8001-58-9	D		
p-Cresidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Crocidolite	Fibers/Asbestos	1200-28-4	F	QU 000004	friction lining, gaskets, insulation
2,4-Diaminoanisole Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
4,4'-Diaminodiphenyl-methane Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Dibenz(a,h)anthracene	Benzo(a)pyrene and other PAH	000053-70-3	D > 10 ppm	Will be F in the future.	bituminous coal tar, mineral oil, bitumen, softener oil
Dibromotetrafluoroethane (Halon 2402)	CFC	000124-73-2	F	QU 000003	refrigerating or foaming agent, propellant
Dibutylphthalate (DBP)	Phthalates	000084-74-2	D	Will be F in the future.	softener
3,3'-Dichloro benzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
1,2-Dichloro-1,2-Difluoroethane	HCFC	431-06-1	F		



1,1-Dichloro-2,2-Difluoroethane	HCFC	471-43-2	F		
1,2-Dichloro-1,1-Difluoroethane	HCFC	1649-08-7	F		
Dichlorodifluoromethane (R12)	CFC	000075-71-8	F	QU 000003	refrigerating or foaming agent, propellant
Dichlorodifluoropropane	HCFC	134190-52-6	F		
1,2-Dichloro-1-Fluoroethane	HCFC	430-57-9	F		
1,1-Dichloro-2-Fluoroethane	HCFC	430-53-5	F		
1,1-Dichloro-1-Fluoroethane	HCFC	1717-00-6	F		
Dichlorofluoromethane	HCFC	00075-43-41	F		
Dichlorofluoropropane	HCFC	127404-11-9	F		
Dichlorohexafluoropropane (R216)	CFC	000661-97-2	F		
Dichloropentafluoropropane	HCFC	127564-92-5	F		
Dichlorotetrafluoroethane (R114)	CFC	000076-14-2	F	QU 000003	refrigerating or foaming agent, propellant
Dichlorotetrafluoroethane	CFC	001320-37-2	F		
Dichlorotetrafluoropropane	HCFC	127564-83-4	F		
1,1-Dichloro-1,2,2,2-Tetrafluoroethane	CFC	000374-07-2	F		
2,2-Dichloro-1,1,1-Trifluoroethane	HCFC	306-83-2	F		
Dichlorotrifluoropropane	HCFC	116890-51-8	F		
Di-(2-ethylhexyl)phthalate (DEHP)	Phthalates	000117-81-7	D		softener
Diethyl phthlate	Phthalates	000084-66-2	D		
1,1,-Difluoroethene (R1132a)	CFC	000075-38-7	F	QU 000003	refrigerating or foaming agent, propellant
3,3'-Dimethoxy benzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dimethylbenzidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
3,3'-Dimethyl-4,4'-diaminodiphenylmethane Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Dimethyl phthalate	Phthalates	000131-11-3	D		
Di-n-octyl-phthalate (DOP)	Phthalates	000117-84-0	D		



Formaldehyde	Biocides	000050-00-0	F	QU 000002	biocide, adhesives, residues and fragments on plastics
Glutaric aldehyde	Glutaric aldehyde	000113-30-8	D		
Heptachlorofluoropropane (R211)	CFC		F		
Hexachlorodifluoropropane (R212)	CFC	076546-99-3	F		
Hexachlorofluoropropane	HCFC	29470-94-8	F		
Isothiazolinones	Biocide	Including 26822-20-4 26172-55-4	D		found in adhesives, paints, binders, varnishes
Lead	Metals	007439-92-1	D		soldering alloys
Lead compounds, soluble in water	Metals	Group	F	If uncertain about solubility use test.....	Example soluble compounds include lead nitrate and lead acetate. cable covering, corrosion protection, pigments, additive for cathodic elpo process
Lead compounds, insoluble in water	Metals	Group	D		cable covering, corrosion protection, pigments, additive for cathodic elpo process
Mercury	Metals	007439-97-6	F > 10 ppm	Decision regarding exemption for lighting to be made by each GM Unit	
Mercury compounds	Metals	Group	F > 10 ppm		pigments
4,4'-Methylene-to (2-chloraniline) Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Mineral fibres diameter <3µm, length >5µm, l:d > 3:1 and other respirable	Fibers/Asbestos	Group	D		friction lining, shielding, reinforcement, insulation, cable
Monochloroheptafluoropropane (R217)	CFC		F		
Monomethyldibromodiphenylmethane	Flame retardants	099688-47-8	F		residues and fragments during the manufacture of polymers
Monomethyldichlorodiphenylmethane	Flame retardants	076253-60-6	F		residues and fragments during the manufacture of polymers
Monomethyltetrachlorodiphenylmethane	Flame retardants		F		residues and fragments during the manufacture of polymers
Naphthalene	Naphthalene	000091-20-3	D		textile additive
2-Naphthylamine	Naphthylamine	000091-59-8	F	Salt regulated with azo dye	found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics



2-Naphthylamine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Nickel	Metals	007440-02-0	D	Alloys exempt	
Nickel compounds	Metals	Group	D		nickel pigment, galvanic additive, bonderize additive
N-Nitrosodi-n-butylamine	Nitrosamine	000924-16-3	D	Will be F in the future.	rubber article
N-Nitrosodiethanolamine	Nitrosamine	001116-54-7	D	Will be F in the future.	rubber article
N-Nitrosodiethylamine	Nitrosamine	000055-18-5	D	Will be F in the future.	rubber article
N-Nitrosodimethylamine	Nitrosamine	000062-75-9	D	Will be F in the future.	rubber article
N-Nitrosodi-i-propylamine	Nitrosamine	000601-77-4	D	Will be F in the future.	rubber article
N-Nitrosodi-n-propylamine	Nitrosamine	000621-64-7	D	Will be F in the future.	rubber article
N-Nitrosoethylphenylamine	Nitrosamine	000612-64-6	D	Will be F in the future.	rubber article
N-Nitrosomethylphenylamine	Nitrosamine	000614-00-6	D	Will be F in the future.	rubber article
N-Nitrosomethylethylamine	Nitrosamine	010595-95-6	D	Will be F in the future.	rubber article
N-Nitrosomorpholin	Nitrosamine	000059-89-2	D	Will be F in the future.	rubber article
N-Nitrosopiperidine	Nitrosamine	000100-75-4	D	Will be F in the future.	rubber article
N-Nitrosopyrrolidine	Nitrosamine	000930-55-2	D	Will be F in the future.	rubber article
Nonylphenol (4-) NFO	Phenol	104-40-5 25154-52-3	D		
Nonylphenoethoxylates NFE	Phenol	9016-45-9	D		
4,4'-Oxydianiline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Pentachlorodifluoropropane	HCFC	116867-32-4	F		
Pentachlorofluoroethane (R111)	CFC	000354-56-3	F		
Pentachlorofluoropropane	HCFC	134190-48-0	F		
Pentachlorophenol (PCP)	Phenol	000087-86-5	F		wood preservative
Pentachlorophenol compounds	Phenol	Group	F		wood preservative
Pentachlorotrifluoropropane (R213)	CFC		F		
Phenol	Phenol	000108-95-2	D	QU 000005	residual monomer in phenolic resins, fragments on polymer materials, wood materials and textiles



Phenols as a group	Phenol	Group	D		
N-Phenyl-2-naphthylamine	Phenyl-2-naphthylamine	000135-88-6	D		antioxidant
Polybromated Biphenyl (PBB)	Flame retardants	059536-65-1	F		
Polybromated Diphenylether (PBDE)	Flame retardants		F		additive in plastics and textiles
Polybromated Terphenyl	Flame retardants		F		additive in plastics and textiles
Polychlorinated Terphenyl (PCT)	Polychlorinated compounds		F		softener, impregnating agent, insulation liquid
PVC	Polyvinylchloride	009002-86-2	D	PVC as a minority constituent in other polymers only	
Radioactive Compounds	Radioactive Compounds		D > background		
Sodium azide	Sodium azide	026628-22-8	D		gas generator airbag
Sodium nitrite	Sodium nitrile	7623-00-0	D		
Styrene	Styrene	000100-42-5	D		residual monomer, solvent
Styrene oxide	Styrene	000096-09-3	D		residual monomer, softener
Tetrachlorodifluoroethane (R112)	CFC	000076-12-0	F	QU 000003	refrigerating or foaming agent, propellant
1,1,1,2-Tetrachloro-2,2-Difluoroethane	CFC	000076-11-9	F		
Tetrachlorodifluoropropane	HCFC	127564-82-3	F		
1,1,2,2-Tetrachloro-1-Fluoroethane	HCFC	354-14-3	F		
1,1,1,2-Tetrachloro-2-Fluoroethane	HCFC	354-11-0	F		
Tetrachlorofluoropropane	HCFC	134190-49-1	F		
Tetrachlorotetrafluoropropane (R214)	CFC	002268-46-4	F		
Tetrachlorotrifluoropropane	HCFC	29470-95-9	F		
4,4'-Thiodianiline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Thallium	Metals	007440-28-0	D		electronic parts, sensor, alloying components
Thallium compounds	Metals	Group	D		
Thiram (TMTD)	Flame retardants	137-26-8	D		



Tin organic compounds	Metals	Group	D		catalyst for PUR foams, stabilizer
m-Toluidine	Azo dye	000108-44-1	D		dye, textile auxiliary, curing agent
o-Toluidine	Azo dye	000095-53-4	D		dye, textile auxiliary, curing agent
p-Toluidine	Azo dye	000106-49-0	D		dye, textile auxiliary, curing agent
o-Toluidine Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
2,4-Toluyldiamine salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Tremolite	Fibers/Asbestos	14567-73-8	F	QU 000004	friction lining, gaskets, insulation
1,2,2-Trichloro-1,1-Difluoroethane	HCFC	354-21-2	F		
1,2,2-Trichloro-1,2-Difluoroethane	HCFC	354-15-4	F		
Trichlorodifluoropropane	HCFC	127564-90-3	F		
1,1,1-Trichloroethane	CFC	000071-55-6	F		
1,1,2- or 1,2,2-Trichloroethane	CFC	000079-00-5	F		
1,1,2-Trichloro-2-Flouroethane	HCFC	359-28-4	F		
1,1,2-Trichloro-1-Flouroethane	HCFC	811-95-0	F		
1,1,1-Trichloro-2-Flouroethane	HCFC	2366-36-1	F		
Trichlorofluoromethane (R11)	CFC	000075-69-4	F	QU 000003	refrigerating or foaming agent, propellant
Trichlorofluoropropane	HCFC	134190-51-5	F		
Trichloropentafluoropropane (R215)	CFC	004259-43-2	F		
Trichlorotetrafluoropropane	HCFC	127564-91-4	F		
Trichlorotrifluoroethane (R113)	CFC	000076-13-1	F	QU 000003	refrigerating or foaming agent, propellant
1,1,1-Trichloro-2,2,2-Trifluoroethane	CFC	026523-64-8	F		
Trichlorotrifluoropropane	HCFC	61623-04-9	F		
1,1,1-Trifluorotrichloroethane	CFC	000354-58-5	F		
2,4,5-Trimethylaniline Salts	Azo dye	Group	F		found in textile and leather dyes, antioxidants, lubricants, rubbers, plastics
Trimethylphosphate	Flame retardants	000512-56-1	D		flame retardant
Triphenylphosphate	Flame retardants	115-86-6	D		



Vinylidene chloride	Vinylchloride	000075-35-4	F		
Vinylchloride monomer	Vinylchloride	000075-01-4	F		residual monomer

Authorized by:

A handwritten signature in black ink that reads "Joseph M. Andolsen".

Joseph Andolsen
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Palziv North America