eTable 1: **Reduction of exposure list from 294 substances to 184 substances**

Prevalence less than 1% in study population (n=58)	Acrylonitrile, Alum, Anaesthetic Gases, Cadmium Dust, Cadmium Fumes, Calcium Carbide, Camphor, Carbon Disulphide, Cellulose Acetate, Charcoal Dust, Chlorine Dioxide, Chloroform, Chromium Dust, Coke Comb. Products, Coke Dust, Cork Dust, Cosmetics, Crude Oil, DDT, Diethyl Ether, Ethylene, Ethylene Oxide, Felt Dust, Flax Fibers, Formic Acid, Glycerine, Gold Fumes, Hydrogen Peroxide, Lead Dust, Magnesium Fumes, Melamine-Formaldehyde, Mercury, Methyl Methacrylate, Mica, Nickel Dust, Nitroglycerine, Paraffin, PCB Oil, Phosphorus, Photographic Products, Polyamides, Polyethylene, Polypropylene, Polystyrene, RDX, Refractory Brick Dust, Rosin, Selenium Compounds, Silicone Oils and Greases, Silk Fibers, Sodium Hydrosulphite, Sodium Silicate, Tannic Acid, Tellurium Compounds, Tin Dust, Titanium Dioxide Fumes, Trinitrotoluene, Vinyl Chloride
Groups and mixtures, which subsumed other substances already on the list. In the big models, inclusion would have altered the interpretation of the estimated effects of substances already in the model (n=42)	Aliphatic Alcohols, Aliphatic Aldehydes, Aliphatic Esters, Aliphatic Ketones, Alkanes (C18+), Alkanes (C1-C4), Alkanes (C5-C17), Aluminum Compounds, Aromatic Alcohols, Aromatic Amines, Chlorinated Alkanes, Chromium (VI) Compounds, Chromium Compounds, Cleaning Agents, Copper Compounds, Cyanides, Fabric Dust, Fluorides, Iron Compounds, Javel Water, Laboratory Products, Lead Compounds, Magnesium Compounds, MAH, Manganese Compounds, Metallic Dust, Mineral Spirits+BTX, Natural Gas, Nickel Compounds, Other Mineral Oils, Other Paints,Varnishes, Other Pyrolysis Fumes, Pharmaceuticals, Polyesters, Rubber Dust, Silver Compounds, Synthetic Fibers, Tin Compounds, Titanium Compounds, Unsat. Aliphatic Hydrocarbons, Zinc Compounds
Concerns for validity of exposure coding (n=10)	Amphibole Asbestos, Cutting Fluids post 1955, Cutting Fluids pre 1955, Ionizing Radiation, PAH (Coal), PAH (Other), PAH (Petroleum), PAH (Wood), Radio Frequency Microwaves, Ultraviolet Radiation

eTable 2
List of 30 categories of exchangeability based on chemical and physical properties, as well as previous evidence of lung carcinogenicity. For previous evidence, values in parentheses are the log odds ratios attributed to these substances in the second-level design matrix.

1. **Previous evidence**: Asbestos (0.64), Crystalline Silica (0.18), Iron Oxides (0.10), Lead Chromate (0.80), Soot (0.10), Coal Gas (0.10), Chromium Fumes (0.80), Nickel Fumes (0.33), Diesel Eng.Emissions (0.10), Sulphuric Acid (0.10), Coal Tar and Pitch (0.10), Beryllium Compounds (0.26), Arsenic Compounds (1.10), Cadmium Compounds (0.18), PAH (Any) (0.10), Benzo(a)pyrene (0.10). All other substances (0.0).

2. **Polypeptides**: Wool Fibres, Fur Dust, Hair Dust, Leather Dust.

3. **Polysaccharides**: Cotton Dust, Wood Dust, Grain Dust, Flour Dust, Starch Dust, Sugar Dust, Tobacco Dust, Cellulose.

4. **Fibrous inorganic dusts**: Inorg.Insul.Dust, Asbestos, Glass Fibres, Mineral Wool Fibres.

5. **Silica containing compounds**: Excavation Dust, Asbestos, Crystalline Silica, Portland Cement, Glass Dust, Glass Fibres, Industrial Talc, Brick Dust, Clay Dust, Concrete Dust, Mineral Wool Fibres, Cosmetic Talc, Silicon Carbide.

6. **Metal dusts (excluding oxides)**: Bronze Dust, Brass Dust, Stainless Steel Dust, Mild Steel Dust, Aluminium Alloy Dust, Iron Dust, Copper Dust, Zinc Dust.

7. **Metal oxide dusts**: Alumina, Calcium Oxide, Titanium Dioxide, Iron Oxides, Zinc Oxide, Lead Oxides.

8. **Metal oxide fumes**: Gas Welding Fumes, Arc Welding Fumes, Soldering Fumes, Metal Oxide Fumes, Aluminium Fumes, Calcium Oxide Fumes, Chromium Fumes, Manganese Fumes, Iron Fumes, Nickel Fumes, Copper Fumes, Zinc Fumes, Silver Fumes, Tin Fumes, Lead Fumes, Nitric Acid.

9. **Heavy metal compounds**: Bronze Dust, Brass Dust, Stainless Steel Dust, Copper Dust, Copper Dust, Lead Oxides, Basic Lead Carb., Lead Chromate, Chromium Fumes, Nickel Fumes, Copper Fumes, Lead Fumes, Leaded Gasoline, Arsenic Compounds, Cadmium Compounds.

10. **Monocyclic aromatic hydrocarbons**: Benzene, Toluene, Xylene, Styrene.

11. **Polycyclic aromatic hydrocarbons**: Soot, PAH (Any), Benzo(a)pyrene.

12. **Engine emissions**: Gas Eng.Emissions, Diesel Eng.Emissions, Jet Fuel Eng.Emiss., Propane Eng.Emiss.

13. **Inorganic acid mists**: Hydrogen Fluoride, Hydrogen Chloride, Inorg.Acid Solutions, Plating Solutions, Nitric Acid, Phosphoric Acid, Sulphuric Acid.

14. **Resins and resin-containing compounds**: Natural Rubber, Plastic Dust, Cellulose Nitrate, Polyvinyl Chloride, Polyvinyl Acetate, Poly-Acrylates, Alkyds, Epoxies, Phenol-Formald., Urea-Formald., Polyurethanes, Styrene-Buta.Rubber, Polychloroprene, Animal & Vege.Glues, Linseed Oil, Synthetic Adhesives, Wood Varnishes, Stains, Inks, Metal Coatings.

15. **Carbonaceous compounds**: Coal Dust, Carbon Black, Graphite Dust.

16. **Aliphatic alkanes (C5-C17)**: Leaded Gasoline, Kerosene, Diesel Oil, Heating Oil, Mineral Spirits, Jet Fuel, Aviation Gasoline.

17. **Aliphatic alcohols**: Methanol, Ethanol, Ethylene Glycol, Isopropanol.

18. **Aliphatic chlorinated hydrocarbons**: Carbon Tetrachloride, Methylene Chloride, 1,1,1.-Trichlorethane, Trichloroethylene, Perchloroethylene, Chlorinated Alkenes.

19. **Inorganic gases**: Hydrogen, Carbon Monoxide, Hydrogen Cyanide, Ammonia, Nitrogen Oxides, Ozone, Hydrogen Fluoride, Sulphur Dioxide, Hydrogen Sulphide, Chlorine, Hydrogen Chloride, Coal Gas.

20. **Organic gases (C1-C4)**: Methane, Propane, Acetylene.

21. **Inorganic salts**: Sodium Carbonate, Calcium Sulphate, Calcium Carbonate.

22. **Magnesium compounds**: Industrial Talc, Cosmetic Talc.

23. **Aluminum compounds**: Clay Dust, Aluminium Alloy Dust, Alumina, Aluminium Fumes.

24. **Chromates**: Lead Chromate, Chromium Fumes.

25. **Manganese compounds**: Stainless Steel Dust, Mild Steel Dust, Manganese Fumes.

26. **Iron compounds**: Stainless Steel Dust, Mild Steel Dust, Iron Dust, Iron Oxides, Iron Fumes.

27. **Nickel compounds**: Stainless Steel Dust, Nickel Fumes.

28. **Copper compounds**: Bronze Dust, Brass Dust, Copper Dust, Copper Fumes.

29. **Zinc compounds**: Brass Dust, Zinc Dust, Zinc Oxide, Zinc Fumes.

30. **Tin compounds**: Bronze Dust, Tin Fumes.

31. **Lead compounds**: Lead Oxides, Basic Lead Carb., Lead Chromate, Lead Fumes, Leaded Gasoline.

Substances not in a category: Abrasives Dust, Inorganic Pigments, Extenders, Ashes, Borates, Sulfur, Organic Dyes & Pigments, Rayon Fibers, Acrylic Fibers, Polyester Fibers, Nylon Fibers, Acetate Fibers, Formaldehyde, Phosgene, Spray Gases, Cooking Fumes, Coal Combustion Products, Liquid Fuel Combustion Products, Natural Gas Combustion Products, Plastics Pyrolysis Products, Rubber Pyrolysis Prod., Propane Combustion Products, Alkali, Caustic Solutions, Acetic Acid, Acetone, Phenol, Turpentine, Solvents, Waxes & Polishes, Lubricating Oils & Greases, Cutting Fluids, Asphalt, Creosote, Hydraulic Fluid, Hypochlorites, Nitrates, Vanadium Compounds, Cobalt Compounds, Antimony Compounds, Tungsten Compounds, Gold Compounds, Mercury Compounds, Fluorocarbons, Glycol Ethers, Phthalates, Isocyanates, Fertilizers, Pesticides, Biocides, Bleaches.

eTable 3 – Results for all 184 exposures and six modeling strategies [a] (odds ratio and 95% confidence interval)

Substance	Strategy 1 No occupational Covariates	Strategy 2 *a priori* selection	Strategy 3 *a priori* plus change-in-estimate selection	Strategy 4 Full model	Strategy 5 Semi-Bayes, all effects exchangeable	Strategy 6 Semi-Bayes, exchangeable subsets based on chemical properties
1,1,1.-Trichlorethane	1.7 (0.9-3.2)	1.6 (0.9-3.0)	1.6 (0.9-3.0)	2.0 (0.9-4.3)	1.5 (0.8-2.8)	1.5 (0.8-2.7)
Abrasives Dust	1.2 (1.0-1.5)	1.1 (0.8-1.3)	0.9 (0.7-1.2)	0.8 (0.6-1.2)	0.9 (0.6-1.2)	0.9 (0.6-1.2)
Acetate Fibres	0.9 (0.5-1.9)	1.0 (0.5-1.9)	1.0 (0.5-1.9)	0.9 (0.3-2.8)	1.0 (0.5-2.1)	1.0 (0.5-1.9)
Acetic Acid	0.9 (0.6-1.4)	0.9 (0.5-1.5)	0.9 (0.5-1.5)	1.2 (0.6-2.3)	1.1 (0.7-1.9)	1.1 (0.6-1.8)
Acetone	1.3 (0.8-2.1)	1.2 (0.7-2.0)	1.3 (0.8-2.3)	1.1 (0.6-2.2)	1.1 (0.7-2.0)	1.1 (0.7-1.9)
Acetylene	1.6 (1.0-2.3)	1.4 (0.9-2.1)	0.9 (0.5-1.5)	0.9 (0.5-1.6)	0.9 (0.5-1.6)	1.0 (0.6-1.7)
Acrylic Fibres	0.8 (0.5-1.5)	0.9 (0.5-1.6)	0.7 (0.3-1.7)	0.9 (0.3-2.3)	0.9 (0.4-1.9)	0.9 (0.5-1.8)
Alkali, Caustic Soluti	1.4 (1.0-1.9)	1.4 (1.0-1.9)	1.5 (1.1-2.1)	1.8 (1.2-2.8)	1.6 (1.1-2.4)	1.6 (1.1-2.3)
Alkyds	1.1 (0.7-1.6)	0.9 (0.6-1.4)	1.2 (0.6-2.2)	0.8 (0.3-1.7)	0.9 (0.5-1.7)	0.9 (0.5-1.7)
Alumina	1.4 (1.1-1.7)	1.2 (0.9-1.6)	1.2 (0.9-1.6)	1.5 (1.0-2.3)	1.4 (0.9-2.0)	1.4 (0.9-2.0)
Aluminium Alloy Dust	1.6 (1.1-2.2)	1.5 (1.1-2.1)	1.5 (1.1-2.1)	2.0 (1.2-3.3)	1.6 (1.1-2.5)	1.6 (1.0-2.4)
Aluminium Fumes	1.4 (0.8-2.4)	1.2 (0.7-2.1)	0.5 (0.2-1.0)	0.5 (0.2-1.2)	0.7 (0.4-1.3)	0.7 (0.4-1.4)
Ammonia	0.9 (0.7-1.2)	0.9 (0.7-1.2)	0.9 (0.7-1.2)	0.9 (0.6-1.4)	1.0 (0.7-1.4)	1.0 (0.7-1.4)
Animal & Vege.Glues	0.9 (0.6-1.4)	0.8 (0.5-1.3)	0.8 (0.5-1.3)	0.7 (0.4-1.3)	0.8 (0.5-1.3)	0.8 (0.5-1.3)
Antimony Compounds	1.4 (0.8-2.5)	1.5 (0.9-2.7)	1.1 (0.5-2.3)	0.7 (0.3-1.7)	0.8 (0.4-1.7)	0.9 (0.5-1.7)
Arc Welding Fumes	1.1 (0.9-1.5)	1.0 (0.7-1.3)	0.7 (0.4-1.0)	0.6 (0.3-0.9)	0.6 (0.4-0.9)	0.6 (0.4-1.0)
Arsenic Compounds	0.9 (0.6-1.4)	0.8 (0.5-1.3)	1.0 (0.6-1.5)	0.8 (0.4-1.5)	0.8 (0.5-1.5)	0.8 (0.5-1.5)
Asbestos	1.2 (1.0-1.5)	1.1 (0.8-1.4)	1.0 (0.7-1.2)	1.1 (0.8-1.5)	1.1 (0.8-1.4)	1.0 (0.8-1.4)
Ashes	1.4 (0.9-2.2)	1.4 (0.8-2.4)	1.7 (0.9-3.2)	1.9 (0.8-4.4)	1.4 (0.7-2.6)	1.3 (0.7-2.5)
Asphalt	0.9 (0.6-1.4)	0.8 (0.5-1.2)	0.8 (0.5-1.2)	0.8 (0.5-1.5)	0.9 (0.5-1.4)	0.9 (0.5-1.4)
Aviation Gasoline	0.5 (0.2-1.3)	0.5 (0.2-1.3)	0.5 (0.1-2.0)	0.3 (0.1-1.4)	0.6 (0.3-1.4)	0.7 (0.3-1.4)
Basic Lead Carb.	1.4 (0.9-2.4)	1.2 (0.7-2.1)	1.4 (0.7-2.9)	1.2 (0.5-3.2)	1.1 (0.6-2.2)	1.1 (0.5-2.2)
Benzene	1.0 (0.8-1.3)	0.9 (0.7-1.2)	1.1 (0.8-1.4)	1.4 (0.9-2.2)	1.2 (0.8-1.8)	1.2 (0.8-1.7)
Benzo(a)pyrene	1.2 (1.0-1.4)	1.1 (0.8-1.4)	0.9 (0.7-1.2)	0.9 (0.7-1.3)	1.0 (0.7-1.3)	1.0 (0.7-1.3)
Beryllium Compounds	1.1 (0.4-3.4)	1.1 (0.3-3.3)	0.3 (0.1-1.1)	0.7 (0.1-3.8)	0.9 (0.3-2.1)	0.8 (0.4-1.9)

Biocides	0.8 (0.6-1.1)	0.8 (0.6-1.1)	0.8 (0.6-1.1)	0.8 (0.5-1.3)	0.8 (0.6-1.2)	0.8 (0.6-1.2)
Bleaches	0.6 (0.3-1.5)	0.6 (0.3-1.5)	0.8 (0.3-2.2)	0.7 (0.2-2.5)	0.9 (0.4-1.9)	0.9 (0.4-1.8)
Borates	2.5 (1.2-5.2)	2.3 (1.1-5.0)	1.7 (0.7-4.2)	2.6 (0.8-8.4)	1.6 (0.7-3.6)	1.5 (0.7-3.1)
Brass Dust	1.6 (0.9-2.7)	1.4 (0.8-2.5)	1.1 (0.6-2.0)	1.3 (0.6-2.7)	1.2 (0.6-2.1)	1.2 (0.6-2.2)
Brick Dust	0.9 (0.6-1.4)	0.8 (0.5-1.3)	0.9 (0.6-1.5)	1.0 (0.6-1.9)	1.0 (0.6-1.7)	1.0 (0.6-1.7)
Bronze Dust	1.1 (0.5-2.2)	1.0 (0.5-2.0)	0.6 (0.2-1.3)	0.4 (0.2-1.1)	0.7 (0.3-1.3)	0.7 (0.3-1.5)
Cadmium Compounds	1.7 (0.8-3.6)	1.5 (0.7-3.3)	1.1 (0.5-2.4)	1.0 (0.3-2.9)	1.0 (0.5-2.1)	1.2 (0.5-2.8)
Calcium Carbonate	1.0 (0.7-1.5)	0.9 (0.6-1.4)	1.1 (0.7-1.6)	1.0 (0.6-1.6)	1.0 (0.6-1.5)	1.0 (0.6-1.5)
Calcium Oxide	1.0 (0.8-1.3)	0.9 (0.7-1.2)	0.9 (0.7-1.2)	0.8 (0.5-1.1)	0.8 (0.6-1.2)	0.8 (0.6-1.2)
Calcium Oxide Fumes	1.3 (0.9-1.8)	1.1 (0.8-1.6)	0.8 (0.4-1.5)	0.7 (0.3-1.5)	0.8 (0.4-1.4)	0.8 (0.4-1.4)
Calcium Sulphate	1.1 (0.9-1.5)	1.0 (0.7-1.3)	1.0 (0.7-1.3)	0.9 (0.6-1.5)	1.0 (0.7-1.4)	1.0 (0.7-1.4)
Carbon Black	1.2 (0.9-1.8)	1.1 (0.8-1.7)	1.4 (0.9-2.3)	0.9 (0.5-1.7)	0.9 (0.6-1.6)	0.9 (0.5-1.5)
Carbon Monoxide	1.2 (1.0-1.4)	1.1 (0.9-1.3)	1.1 (0.8-1.5)	0.9 (0.6-1.4)	1.0 (0.7-1.4)	1.0 (0.7-1.4)
Carbon Tetrachloride	1.1 (0.8-1.6)	1.1 (0.7-1.6)	1.3 (0.9-2.0)	1.3 (0.8-2.2)	1.2 (0.8-1.9)	1.2 (0.8-1.8)
Cellulose	1.2 (0.9-1.7)	1.2 (0.8-1.6)	1.2 (0.8-1.6)	1.3 (0.8-1.9)	1.2 (0.8-1.8)	1.2 (0.8-1.7)
Cellulose Nitrate	0.7 (0.4-1.1)	0.5 (0.3-0.9)	0.7 (0.4-1.3)	0.9 (0.4-2.0)	0.8 (0.4-1.5)	0.8 (0.5-1.5)
Chlorinated Alkenes	1.1 (0.8-1.6)	1.1 (0.8-1.5)	1.1 (0.8-1.5)	0.9 (0.4-1.7)	0.9 (0.6-1.6)	0.9 (0.6-1.5)
Chlorine	0.7 (0.4-1.2)	0.6 (0.3-1.1)	0.6 (0.3-1.2)	0.9 (0.4-2.2)	0.8 (0.4-1.6)	0.9 (0.5-1.6)
Chromium Fumes	2.2 (1.4-3.4)	2.3 (1.3-4.0)	5.3 (0.5-57.2)	7.4 (0.6-97.7)	1.5 (0.7-3.4)	2.1 (0.6-7.5)
Clay Dust	1.7 (1.1-2.8)	1.5 (0.9-2.5)	1.8 (1.0-3.0)	1.9 (1.0-4.0)	1.6 (0.9-2.9)	1.8 (1.0-3.2)
Coal Comb.Products	1.5 (1.0-2.1)	1.3 (0.9-2.0)	1.3 (0.9-2.0)	1.1 (0.6-2.0)	1.1 (0.7-1.8)	1.1 (0.7-1.8)
Coal Dust	1.4 (1.0-2.0)	1.3 (0.9-1.9)	1.3 (0.9-1.9)	0.9 (0.6-1.6)	1.0 (0.7-1.6)	1.0 (0.6-1.5)
Coal Gas	0.7 (0.3-1.6)	0.7 (0.3-1.6)	0.6 (0.2-1.4)	0.8 (0.2-3.6)	0.9 (0.4-2.0)	0.8 (0.4-1.8)
Coal Tar and Pitch	1.1 (0.6-1.8)	0.9 (0.5-1.6)	0.9 (0.5-1.6)	0.9 (0.4-1.7)	0.9 (0.5-1.6)	0.9 (0.5-1.6)
Cobalt Compounds	1.5 (0.9-2.6)	1.4 (0.8-2.5)	1.2 (0.7-2.1)	1.0 (0.3-3.5)	1.0 (0.5-2.1)	1.0 (0.6-2.0)
Concrete Dust	1.1 (0.8-1.5)	0.9 (0.7-1.3)	0.9 (0.7-1.3)	1.0 (0.7-1.5)	1.0 (0.7-1.5)	1.0 (0.7-1.5)
Cooking Fumes	0.8 (0.6-1.2)	0.8 (0.6-1.2)	0.8 (0.6-1.2)	0.9 (0.6-1.4)	0.9 (0.6-1.3)	0.9 (0.6-1.3)
Copper Dust	1.3 (0.9-1.9)	1.2 (0.8-1.8)	1.0 (0.7-1.6)	1.4 (0.8-2.5)	1.2 (0.7-1.9)	1.2 (0.7-1.9)
Copper Fumes	2.1 (1.4-3.2)	1.9 (1.2-3.0)	1.5 (0.9-2.4)	1.2 (0.6-2.7)	1.2 (0.7-2.2)	1.2 (0.7-2.3)
Cosmetic Talc	1.2 (0.6-2.3)	1.3 (0.7-2.5)	1.7 (0.9-3.2)	1.5 (0.7-3.3)	1.3 (0.7-2.6)	1.4 (0.7-2.7)
Cotton Dust	0.9 (0.7-1.3)	0.9 (0.7-1.3)	0.9 (0.7-1.3)	0.9 (0.6-1.5)	1.0 (0.6-1.5)	1.0 (0.6-1.5)
Creosote	0.8 (0.4-1.8)	0.7 (0.3-1.6)	0.7 (0.3-1.6)	0.6 (0.3-1.6)	0.8 (0.4-1.5)	0.8 (0.4-1.5)
Crystalline Silica	1.3 (1.0-1.5)	1.2 (0.9-1.4)	1.2 (0.9-1.4)	0.9 (0.6-1.3)	1.0 (0.7-1.3)	1.0 (0.7-1.3)
Cutting Fluids	1.3 (0.9-1.7)	1.2 (0.9-1.6)	1.1 (0.8-1.5)	1.0 (0.6-1.5)	1.0 (0.7-1.5)	1.0 (0.7-1.5)

Diesel Eng.Emissions	1.2 (0.9-1.5)	1.1 (0.9-1.4)	1.1 (0.9-1.4)	1.0 (0.8-1.4)	1.1 (0.8-1.4)	1.1 (0.8-1.4)
Diesel Oil	1.4 (0.9-2.0)	1.2 (0.8-1.9)	1.2 (0.8-1.9)	1.5 (0.9-2.5)	1.3 (0.8-2.1)	1.3 (0.8-2.0)
Epoxies	1.5 (0.7-3.2)	1.4 (0.7-2.9)	1.5 (0.7-3.2)	1.1 (0.4-3.1)	1.2 (0.6-2.4)	1.1 (0.6-2.3)
Ethanol	1.3 (0.7-2.4)	1.3 (0.7-2.5)	1.5 (0.7-2.9)	1.4 (0.6-3.2)	1.3 (0.7-2.5)	1.2 (0.6-2.3)
Ethylene Glycol	0.9 (0.6-1.3)	0.7 (0.4-1.1)	0.9 (0.6-1.4)	0.9 (0.4-1.9)	0.9 (0.5-1.6)	0.9 (0.5-1.5)
Excavation Dust	1.4 (1.0-1.8)	1.2 (0.9-1.7)	1.2 (0.9-1.7)	1.2 (0.8-1.8)	1.2 (0.8-1.7)	1.2 (0.8-1.7)
Extenders	1.0 (0.7-1.4)	0.8 (0.6-1.2)	1.1 (0.6-1.8)	0.9 (0.5-1.9)	0.9 (0.5-1.7)	0.9 (0.5-1.6)
Fertilizers	1.1 (0.8-1.6)	1.2 (0.8-1.7)	1.2 (0.8-1.7)	1.3 (0.7-2.3)	1.2 (0.8-2.0)	1.2 (0.8-1.9)
Flour Dust	1.0 (0.6-1.5)	1.0 (0.6-1.5)	1.0 (0.6-1.5)	0.9 (0.6-1.6)	1.0 (0.6-1.6)	1.0 (0.6-1.6)
Fluorocarbons	0.7 (0.4-1.3)	0.6 (0.3-1.2)	0.9 (0.5-1.8)	0.6 (0.2-1.6)	0.8 (0.4-1.6)	0.8 (0.4-1.5)
Formaldehyde	0.8 (0.7-1.0)	0.8 (0.6-1.0)	0.8 (0.6-1.0)	0.8 (0.6-1.1)	0.8 (0.6-1.1)	0.8 (0.6-1.1)
Fur Dust	1.1 (0.6-2.2)	1.1 (0.6-2.2)	1.2 (0.6-2.5)	1.5 (0.7-3.3)	1.3 (0.7-2.4)	1.3 (0.7-2.4)
Gas Eng.Emissions	0.9 (0.8-1.1)	0.9 (0.7-1.1)	0.7 (0.5-0.9)	0.9 (0.6-1.3)	0.9 (0.7-1.2)	0.9 (0.7-1.2)
Gas Welding Fumes	1.4 (1.1-1.8)	1.3 (1.0-1.7)	1.1 (0.8-1.5)	1.3 (0.8-2.1)	1.2 (0.8-1.9)	1.2 (0.8-1.8)
Glass Dust	1.7 (0.9-3.3)	1.5 (0.8-3.0)	1.5 (0.8-3.0)	1.4 (0.6-3.0)	1.3 (0.7-2.5)	1.4 (0.7-2.5)
Glass Fibres	0.9 (0.7-1.3)	0.8 (0.5-1.1)	0.8 (0.5-1.3)	0.9 (0.5-1.7)	0.9 (0.5-1.4)	0.9 (0.5-1.4)
Glycol Ethers	1.2 (0.7-1.9)	1.0 (0.6-1.6)	1.2 (0.7-2.1)	1.2 (0.6-2.3)	1.1 (0.6-1.9)	1.1 (0.6-1.9)
Gold Compounds	2.3 (1.1-4.7)	2.1 (1.0-4.5)	1.5 (0.6-3.5)	1.6 (0.5-4.6)	1.4 (0.6-2.9)	1.4 (0.7-2.7)
Grain Dust	1.0 (0.7-1.3)	0.9 (0.7-1.3)	0.9 (0.7-1.3)	1.0 (0.7-1.6)	1.0 (0.7-1.5)	1.0 (0.7-1.5)
Graphite Dust	0.7 (0.4-1.6)	0.6 (0.3-1.4)	0.6 (0.3-1.2)	0.5 (0.2-1.3)	0.7 (0.3-1.4)	0.7 (0.3-1.4)
Hair Dust	0.9 (0.4-2.1)	1.0 (0.4-2.3)	1.0 (0.4-2.5)	1.3 (0.4-4.0)	1.0 (0.5-2.3)	1.0 (0.5-2.3)
Heating Oil	1.4 (1.0-2.1)	1.4 (0.9-2.1)	1.4 (0.9-2.1)	1.4 (0.8-2.3)	1.3 (0.8-2.0)	1.3 (0.8-2.0)
Hydraulic Fluid	1.0 (0.6-1.5)	0.8 (0.5-1.3)	0.9 (0.5-1.5)	0.9 (0.4-1.6)	0.9 (0.5-1.6)	0.9 (0.5-1.6)
Hydrogen	0.9 (0.5-1.6)	0.9 (0.5-1.6)	1.0 (0.5-2.3)	0.9 (0.3-2.9)	0.9 (0.4-1.8)	0.9 (0.5-1.7)
Hydrogen Chloride	1.1 (0.8-1.4)	1.0 (0.7-1.3)	0.9 (0.6-1.2)	1.0 (0.6-1.7)	1.0 (0.7-1.6)	1.0 (0.7-1.6)
Hydrogen Cyanide	1.0 (0.6-1.8)	0.9 (0.5-1.7)	1.5 (0.7-3.2)	2.2 (0.7-7.5)	1.3 (0.6-2.8)	1.3 (0.6-2.6)
Hydrogen Fluoride	2.1 (1.3-3.3)	1.9 (1.2-3.1)	1.3 (0.7-2.2)	1.6 (0.8-3.2)	1.4 (0.8-2.4)	1.3 (0.8-2.3)
Hydrogen Sulphide	1.1 (0.7-1.6)	1.0 (0.7-1.5)	1.2 (0.8-1.9)	1.5 (0.8-2.7)	1.3 (0.8-2.2)	1.3 (0.8-2.1)
Hypochlorites	0.7 (0.5-1.1)	0.7 (0.5-1.1)	0.7 (0.5-1.0)	0.9 (0.5-1.6)	0.9 (0.5-1.4)	0.9 (0.5-1.4)
Industrial Talc	1.1 (0.8-1.5)	0.9 (0.6-1.4)	1.2 (0.8-1.8)	0.9 (0.5-1.5)	0.9 (0.6-1.4)	0.9 (0.6-1.5)
Inks	1.6 (1.0-2.4)	1.6 (1.0-2.4)	1.8 (1.1-2.8)	1.5 (0.8-2.9)	1.4 (0.8-2.3)	1.4 (0.8-2.3)
Inorg.Acid Solutions	1.1 (0.9-1.4)	1.0 (0.8-1.3)	1.0 (0.8-1.3)	1.1 (0.7-1.7)	1.0 (0.7-1.5)	1.0 (0.7-1.5)
Inorg.Insul.Dust	1.1 (0.8-1.4)	0.9 (0.7-1.2)	0.8 (0.6-1.3)	0.6 (0.4-1.0)	0.7 (0.5-1.1)	0.7 (0.5-1.1)
Inorg.Pigments	1.3 (1.0-1.7)	1.1 (0.8-1.6)	1.8 (1.1-2.8)	1.4 (0.8-2.5)	1.3 (0.8-2.1)	1.3 (0.8-2.0)

Iron Dust	1.1 (0.7-1.7)	1.0 (0.6-1.5)	0.8 (0.5-1.3)	0.8 (0.5-1.5)	0.8 (0.5-1.4)	0.8 (0.5-1.3)
Iron Fumes	1.4 (1.0-1.8)	1.2 (0.9-1.7)	0.8 (0.4-1.5)	0.8 (0.4-1.7)	0.8 (0.5-1.5)	0.7 (0.4-1.4)
Iron Oxides	1.1 (0.8-1.4)	0.9 (0.6-1.2)	0.9 (0.7-1.3)	0.7 (0.5-1.0)	0.7 (0.5-1.1)	0.7 (0.5-1.0)
Isocyanates	1.0 (0.5-1.8)	0.8 (0.4-1.6)	2.5 (1.0-5.9)	2.4 (0.7-8.5)	1.3 (0.6-2.9)	1.2 (0.6-2.5)
Isopropanol	1.2 (0.8-1.8)	1.1 (0.7-1.7)	1.2 (0.8-1.9)	1.0 (0.5-1.8)	1.0 (0.6-1.7)	1.0 (0.6-1.7)
Jet Fuel	0.6 (0.2-1.5)	0.6 (0.2-1.5)	0.8 (0.2-3.8)	0.8 (0.2-4.4)	0.7 (0.3-1.7)	0.8 (0.4-1.7)
Jet Fuel Eng.Emiss.	0.4 (0.1-1.3)	0.4 (0.1-1.3)	0.3 (0.1-1.4)	0.6 (0.1-2.8)	0.7 (0.3-1.7)	0.8 (0.3-1.8)
Kerosene	1.5 (1.1-2.1)	1.4 (1.0-2.0)	1.4 (1.0-2.0)	1.3 (0.8-2.0)	1.2 (0.8-1.8)	1.2 (0.8-1.8)
Lead Chromate	1.1 (0.7-1.7)	0.7 (0.4-1.3)	1.4 (0.6-3.1)	1.1 (0.4-2.5)	1.0 (0.5-1.9)	1.1 (0.5-2.4)
Lead Fumes	1.3 (0.9-2.0)	1.2 (0.8-1.8)	0.7 (0.3-1.4)	0.6 (0.3-1.5)	0.8 (0.4-1.6)	0.9 (0.4-1.6)
Lead Oxides	1.8 (1.0-3.3)	1.6 (0.9-3.0)	2.0 (1.1-3.7)	1.6 (0.7-3.6)	1.4 (0.7-2.5)	1.3 (0.7-2.5)
Leaded Gasoline	1.1 (0.9-1.4)	1.0 (0.8-1.3)	1.0 (0.8-1.3)	0.9 (0.6-1.5)	1.0 (0.7-1.5)	1.0 (0.7-1.5)
Leather Dust	0.7 (0.4-1.2)	0.7 (0.4-1.2)	0.7 (0.4-1.2)	0.7 (0.3-1.4)	0.8 (0.5-1.5)	0.9 (0.5-1.5)
Linseed Oil	1.4 (1.0-2.0)	1.2 (0.8-1.8)	1.3 (0.9-2.0)	1.2 (0.6-2.3)	1.2 (0.7-2.0)	1.2 (0.7-2.0)
Liquid Fuel Comb.Prod.	1.3 (0.9-1.8)	1.2 (0.9-1.7)	1.0 (0.7-1.5)	1.0 (0.6-1.7)	1.0 (0.7-1.6)	1.0 (0.7-1.5)
Lubric.Oils & Greases	1.2 (1.0-1.4)	1.1 (0.9-1.3)	1.1 (0.9-1.3)	0.9 (0.7-1.3)	1.0 (0.7-1.3)	1.0 (0.7-1.3)
Manganese Fumes	1.6 (1.1-2.4)	1.5 (1.0-2.2)	1.1 (0.6-1.9)	1.3 (0.6-2.7)	1.1 (0.6-2.0)	1.3 (0.7-2.4)
Mercury Compounds	1.1 (0.6-2.0)	1.0 (0.5-1.8)	1.9 (0.9-3.8)	1.4 (0.6-3.5)	1.2 (0.6-2.4)	1.2 (0.6-2.2)
Metal Coatings	1.1 (0.8-1.5)	1.0 (0.7-1.3)	1.2 (0.8-1.6)	1.1 (0.7-1.7)	1.1 (0.7-1.6)	1.1 (0.7-1.6)
Metal Oxide Fumes	1.3 (1.0-1.6)	1.2 (0.9-1.5)	0.9 (0.6-1.2)	1.2 (0.7-1.8)	1.1 (0.7-1.6)	1.1 (0.8-1.6)
Methane	1.2 (0.8-1.7)	1.1 (0.8-1.7)	1.3 (0.8-2.0)	1.3 (0.6-2.4)	1.2 (0.7-2.0)	1.2 (0.7-2.0)
Methanol	1.0 (0.7-1.5)	0.8 (0.6-1.2)	1.0 (0.6-1.7)	0.8 (0.4-1.4)	0.9 (0.5-1.4)	0.9 (0.5-1.4)
Methylene Chloride	0.9 (0.5-1.7)	0.8 (0.4-1.4)	1.0 (0.5-2.0)	0.9 (0.4-1.9)	0.9 (0.5-1.7)	0.9 (0.5-1.7)
Mild Steel Dust	1.3 (1.0-1.6)	1.2 (0.9-1.5)	1.2 (0.9-1.5)	1.3 (0.9-1.9)	1.2 (0.8-1.7)	1.2 (0.8-1.7)
Mineral Spirits	1.2 (0.9-1.6)	1.1 (0.8-1.4)	1.1 (0.8-1.4)	1.1 (0.8-1.6)	1.1 (0.8-1.5)	1.1 (0.8-1.5)
Mineral Wool Fibres	1.2 (0.8-1.6)	1.0 (0.7-1.5)	1.6 (0.9-2.9)	1.7 (0.8-3.3)	1.4 (0.8-2.4)	1.4 (0.8-2.3)
Natural Gas Comb.Prod.	1.0 (0.6-1.5)	1.0 (0.6-1.6)	0.8 (0.4-1.5)	0.7 (0.3-1.3)	0.8 (0.4-1.3)	0.8 (0.5-1.3)
Natural Rubber	1.2 (0.8-1.7)	1.1 (0.7-1.6)	2.7 (1.3-5.3)	4.1 (1.7-10.0)	2.0 (1.1-3.8)	1.8 (1.0-3.3)
Nickel Fumes	2.1 (1.4-3.2)	2.1 (1.2-3.6)	0.3 (0.0-3.6)	0.3 (0.0-3.5)	1.1 (0.5-2.5)	0.8 (0.2-2.6)
Nitrates	0.5 (0.2-1.1)	0.5 (0.2-1.1)	0.5 (0.2-1.0)	0.3 (0.1-0.8)	0.5 (0.3-1.0)	0.6 (0.3-1.1)
Nitric Acid	1.0 (0.5-2.0)	1.0 (0.5-2.0)	0.5 (0.2-1.2)	0.6 (0.2-1.6)	0.8 (0.4-1.6)	0.7 (0.4-1.5)
Nitrogen Oxides	1.6 (1.3-1.9)	1.6 (1.3-2.1)	2.1 (1.5-2.8)	2.7 (1.7-4.3)	2.2 (1.5-3.3)	2.1 (1.4-3.1)
Nylon Fibres	1.0 (0.6-1.6)	1.0 (0.6-1.7)	1.1 (0.6-2.3)	1.6 (0.7-3.6)	1.2 (0.6-2.3)	1.2 (0.6-2.2)
Organic Dyes & Pig.	1.0 (0.7-1.3)	0.9 (0.6-1.2)	1.1 (0.7-1.7)	0.9 (0.5-1.6)	0.9 (0.6-1.5)	0.9 (0.6-1.5)

Ozone	1.5 (1.1-2.1)	1.3 (0.9-1.9)	0.8 (0.5-1.4)	0.8 (0.4-1.5)	0.9 (0.5-1.5)	0.9 (0.5-1.5)
PAH (Any)	1.2 (1.0-1.4)	1.1 (0.9-1.3)	1.2 (0.9-1.6)	1.1 (0.8-1.5)	1.0 (0.8-1.4)	1.0 (0.8-1.4)
Perchloroethylene	1.2 (0.6-2.4)	1.2 (0.6-2.3)	1.0 (0.5-2.1)	1.2 (0.5-3.0)	1.1 (0.5-2.1)	1.1 (0.6-2.1)
Pesticides	1.0 (0.7-1.4)	1.0 (0.7-1.5)	0.9 (0.6-1.5)	1.1 (0.6-1.8)	1.0 (0.6-1.7)	1.0 (0.7-1.6)
Phenol	0.9 (0.5-1.7)	0.8 (0.4-1.5)	0.8 (0.3-1.7)	1.1 (0.4-2.8)	1.0 (0.5-2.0)	1.0 (0.5-1.9)
Phenol-Formald.	1.3 (0.9-1.9)	1.1 (0.7-1.7)	1.1 (0.6-1.9)	0.9 (0.4-1.7)	1.0 (0.6-1.8)	1.1 (0.6-1.8)
Phosgene	0.8 (0.4-1.6)	0.7 (0.3-1.4)	0.8 (0.3-2.0)	0.5 (0.2-1.6)	0.8 (0.4-1.7)	0.8 (0.4-1.6)
Phosphoric Acid	1.2 (0.6-2.4)	1.2 (0.6-2.3)	1.1 (0.5-2.4)	0.8 (0.3-2.0)	0.9 (0.4-1.8)	0.9 (0.4-1.7)
Phthalates	0.6 (0.3-1.0)	0.4 (0.3-0.8)	0.5 (0.2-1.0)	0.4 (0.2-1.0)	0.5 (0.3-1.0)	0.6 (0.3-1.1)
Plastic Dust	0.9 (0.6-1.3)	0.8 (0.6-1.2)	1.1 (0.7-1.6)	1.0 (0.6-1.8)	0.9 (0.6-1.5)	0.9 (0.6-1.5)
Plastics Pyrol.Prod.	0.6 (0.4-1.0)	0.5 (0.3-1.0)	0.8 (0.4-1.4)	0.6 (0.2-1.4)	0.7 (0.4-1.3)	0.7 (0.4-1.3)
Plating Solutions	1.1 (0.5-2.3)	0.9 (0.4-2.1)	0.8 (0.3-1.8)	0.5 (0.1-1.9)	0.8 (0.4-1.9)	0.8 (0.4-1.8)
Poly-Acrylates	1.2 (0.7-1.9)	0.9 (0.6-1.6)	2.3 (1.1-4.5)	2.5 (1.0-5.9)	1.6 (0.8-3.1)	1.5 (0.8-2.7)
Polychloroprene	1.0 (0.6-1.6)	0.9 (0.6-1.5)	1.1 (0.6-2.0)	1.0 (0.5-2.2)	1.1 (0.6-1.9)	1.1 (0.6-1.9)
Polyester Fibres	1.0 (0.6-1.5)	1.0 (0.7-1.7)	1.3 (0.6-2.8)	1.3 (0.5-3.1)	1.2 (0.6-2.3)	1.2 (0.6-2.2)
Polyurethanes	1.2 (0.6-2.2)	1.0 (0.5-1.9)	1.1 (0.5-2.4)	0.7 (0.3-2.0)	1.0 (0.5-2.0)	1.0 (0.5-2.0)
Polyvinyl Acetate	0.7 (0.4-1.2)	0.6 (0.3-1.0)	0.6 (0.3-1.2)	0.6 (0.3-1.4)	0.7 (0.4-1.3)	0.7 (0.4-1.3)
Polyvinyl Chloride	0.6 (0.3-1.2)	0.6 (0.3-1.1)	0.7 (0.3-1.5)	0.5 (0.2-1.2)	0.7 (0.3-1.3)	0.7 (0.4-1.3)
Portland Cement	1.3 (0.9-1.7)	1.1 (0.8-1.6)	1.1 (0.8-1.6)	1.3 (0.8-2.0)	1.2 (0.8-1.8)	1.2 (0.8-1.8)
Propane	1.2 (0.8-1.8)	1.2 (0.8-1.8)	2.2 (0.9-5.7)	1.6 (0.5-5.1)	1.2 (0.6-2.3)	1.2 (0.6-2.3)
Propane Comb.Prod.	1.1 (0.7-1.7)	1.0 (0.7-1.6)	0.4 (0.1-1.1)	0.5 (0.1-1.6)	0.7 (0.4-1.5)	0.7 (0.4-1.5)
Propane Eng.Emiss.	1.8 (1.1-3.1)	1.8 (1.1-3.0)	1.8 (1.1-3.0)	1.7 (0.9-3.1)	1.6 (1.0-2.7)	1.6 (0.9-2.6)
Rayon Fibres	0.9 (0.5-1.5)	0.9 (0.5-1.6)	0.8 (0.4-1.8)	0.7 (0.3-2.1)	0.9 (0.4-1.8)	0.9 (0.5-1.7)
Rubber Pyrol.Prod.	0.9 (0.5-1.6)	0.8 (0.5-1.5)	1.4 (0.7-2.7)	0.8 (0.3-2.1)	0.9 (0.5-1.9)	1.0 (0.5-1.9)
Silicon Carbide	1.1 (0.8-1.6)	1.0 (0.7-1.4)	0.7 (0.4-1.0)	0.8 (0.4-1.3)	0.8 (0.5-1.2)	0.8 (0.5-1.3)
Silver Fumes	1.4 (0.7-2.6)	1.3 (0.7-2.5)	0.5 (0.2-1.2)	0.5 (0.2-1.5)	0.7 (0.4-1.5)	0.7 (0.4-1.5)
Sodium Carbonate	1.2 (0.6-2.3)	1.2 (0.6-2.3)	0.7 (0.3-1.5)	0.9 (0.4-2.5)	1.0 (0.5-2.0)	1.0 (0.5-2.1)
Soldering Fumes	1.1 (0.8-1.5)	1.0 (0.7-1.5)	0.8 (0.6-1.2)	0.8 (0.5-1.4)	0.9 (0.6-1.4)	0.9 (0.6-1.3)
Solvents	1.2 (1.0-1.4)	1.1 (0.9-1.3)	1.1 (0.9-1.3)	1.1 (0.8-1.4)	1.1 (0.8-1.4)	1.1 (0.8-1.4)
Soot	1.2 (0.9-1.6)	1.1 (0.7-1.6)	1.0 (0.7-1.4)	1.0 (0.6-1.7)	1.1 (0.7-1.7)	1.1 (0.7-1.7)
Spray Gases	1.0 (0.5-1.9)	1.0 (0.5-1.8)	1.2 (0.6-2.4)	1.0 (0.4-2.5)	1.0 (0.5-1.9)	1.0 (0.5-1.8)
Stainless Steel Dust	1.6 (1.1-2.3)	1.5 (1.0-2.2)	1.0 (0.6-1.6)	1.0 (0.5-1.8)	1.0 (0.6-1.7)	1.0 (0.6-1.8)
Starch Dust	1.4 (0.8-2.6)	1.5 (0.8-2.8)	1.3 (0.7-2.5)	1.2 (0.6-2.5)	1.2 (0.6-2.1)	1.2 (0.7-2.1)
Styrene	0.4 (0.2-0.9)	0.3 (0.1-0.7)	0.3 (0.1-0.8)	0.2 (0.0-0.7)	0.5 (0.2-1.0)	0.5 (0.2-1.0)

Styrene-Buta.Rubber	0.8 (0.6-1.3)	0.8 (0.5-1.2)	0.4 (0.2-0.8)	0.3 (0.1-0.8)	0.6 (0.3-1.1)	0.6 (0.4-1.1)
Sugar Dust	1.4 (0.7-2.9)	1.4 (0.7-2.9)	1.4 (0.7-2.9)	1.6 (0.7-3.7)	1.3 (0.7-2.6)	1.3 (0.7-2.5)
Sulfur	0.8 (0.4-1.5)	0.7 (0.4-1.5)	0.6 (0.3-1.3)	0.4 (0.2-1.0)	0.6 (0.3-1.2)	0.7 (0.4-1.2)
Sulphur Dioxide	1.1 (0.9-1.4)	0.9 (0.7-1.2)	0.6 (0.4-0.8)	0.5 (0.3-0.8)	0.6 (0.4-0.9)	0.6 (0.4-0.9)
Sulphuric Acid	1.0 (0.8-1.3)	0.9 (0.7-1.2)	0.9 (0.7-1.2)	0.8 (0.6-1.2)	0.8 (0.6-1.1)	0.8 (0.6-1.1)
Synthetic Adhesives	0.9 (0.7-1.2)	0.8 (0.7-1.1)	0.8 (0.7-1.1)	0.7 (0.5-1.0)	0.8 (0.6-1.1)	0.8 (0.6-1.1)
Tin Fumes	1.6 (1.1-2.4)	1.5 (1.0-2.3)	1.4 (0.7-3.0)	2.1 (0.8-5.3)	1.4 (0.7-2.6)	1.3 (0.6-2.6)
Titanium Dioxide	1.1 (0.8-1.7)	0.9 (0.6-1.5)	1.5 (0.8-2.9)	1.5 (0.7-3.4)	1.3 (0.7-2.4)	1.2 (0.7-2.3)
Tobacco Dust	1.0 (0.4-2.5)	1.0 (0.4-2.5)	1.0 (0.4-2.5)	1.2 (0.4-3.1)	1.1 (0.5-2.2)	1.1 (0.6-2.3)
Toluene	0.9 (0.7-1.2)	0.8 (0.6-1.1)	0.7 (0.5-1.2)	0.7 (0.3-1.4)	0.8 (0.5-1.3)	0.8 (0.5-1.3)
Trichloroethylene	1.2 (0.7-1.9)	1.1 (0.7-1.8)	0.9 (0.5-1.5)	1.1 (0.5-2.6)	1.1 (0.6-2.0)	1.1 (0.6-1.9)
Tungsten Compounds	1.3 (0.6-2.7)	1.3 (0.6-2.7)	0.6 (0.2-1.9)	1.0 (0.2-4.1)	1.0 (0.5-2.3)	1.0 (0.5-2.1)
Turpentine	1.1 (0.8-1.6)	1.0 (0.7-1.4)	1.0 (0.6-1.5)	0.8 (0.5-1.4)	0.9 (0.5-1.4)	0.9 (0.6-1.4)
Urea-Formald.	1.5 (1.0-2.2)	1.4 (0.9-2.1)	1.9 (1.2-2.9)	2.5 (1.3-4.8)	1.9 (1.1-3.1)	1.7 (1.1-2.9)
Vanadium Compounds	1.5 (0.8-3.1)	1.6 (0.7-3.6)	0.7 (0.2-2.0)	1.4 (0.4-5.1)	1.1 (0.5-2.5)	1.1 (0.5-2.3)
Waxes, Polishes	0.9 (0.7-1.3)	0.9 (0.6-1.2)	1.1 (0.7-1.6)	1.1 (0.7-1.7)	1.0 (0.7-1.6)	1.0 (0.7-1.6)
Wood Dust	1.2 (1.0-1.5)	1.1 (0.9-1.4)	1.1 (0.9-1.4)	1.1 (0.8-1.5)	1.1 (0.8-1.4)	1.1 (0.9-1.4)
Wood Varnishes, Stains	1.2 (0.8-1.7)	1.0 (0.7-1.5)	1.4 (0.9-2.2)	1.3 (0.7-2.3)	1.2 (0.7-1.9)	1.1 (0.7-1.8)
Wool Fibres	0.9 (0.6-1.4)	0.9 (0.6-1.4)	0.9 (0.6-1.4)	1.0 (0.5-1.9)	1.0 (0.6-1.7)	1.0 (0.6-1.7)
Xylene	1.0 (0.8-1.3)	0.9 (0.7-1.1)	1.1 (0.7-1.9)	1.2 (0.6-2.5)	1.1 (0.6-1.9)	1.1 (0.6-1.8)
Zinc Dust	1.5 (0.9-2.5)	1.4 (0.8-2.3)	1.0 (0.5-1.9)	0.8 (0.4-1.9)	1.0 (0.5-1.8)	1.0 (0.5-1.9)
Zinc Fumes	1.6 (1.0-2.4)	1.4 (0.9-2.2)	0.8 (0.5-1.5)	1.1 (0.6-2.2)	1.1 (0.6-1.8)	1.1 (0.6-1.9)
Zinc Oxide	1.2 (0.8-1.9)	1.1 (0.6-1.7)	1.4 (0.7-2.8)	1.2 (0.5-2.7)	1.2 (0.6-2.3)	1.2 (0.6-2.4)

[a] Separate regression model for each chemical effect: Strategy 1, no adjustment for other chemical effects; Strategy 2, *a priori* choice of eight confounders that are suspected lung carcinogens; Strategy 3, selection of confounders supplemented by change-in-estimate criterion of 10%. Single regression model for all chemical effects: Strategy 4, simultaneous maximum likelihood estimation; Strategy 5, semi-Bayes model with assumption of all effects exchangeable and prior variance set to 10-fold range; Strategy 6, semi-Bayes model with assumption of sets of effects exchangeable based on shared chemical and physical properties as well as previous evidence of carcinogenicity, with prior variance set to 7-fold range.

eFIGURE LEGEND

Scatter plots of logistic beta estimates from pairings of modeling strategies.

Separate regression model for each chemical effect: Strategy 1, no adjustment for other chemical effects; Strategy 2, a priori choice of eight confounders that are suspected lung carcinogens; Strategy 3, selection of confounders supplemented by change-in-estimate criterion of 10%. Single regression model for all chemical effects: Strategy 4, simultaneous maximum likelihood estimation; Strategy 5, semi-Bayes model with assumption of all effects exchangeable and prior variance set to 10-fold range; Strategy 6, semi-Bayes model with assumption of sets of effects exchangeable based on shared chemical and physical properties as well as previous evidence of carcinogenicity, with prior variance set to 7-fold range.