

TOG: ~~ICL~~ MMG: RF
XF: OSHA Labeling
STD

TO: Don Wharry, Dan Plummer

FROM: Tom Grumbles
DATE: August 5, 1985

Interoffice
Communication

SUBJ: TRACE COMPONENTS IN PRODUCTS

VISTA

As you are aware, the requests for specific data or statements regarding product constituents have increased. In many cases, this is a result of the OSHA hazard communication standard which requires any carcinogens present at greater than 0.1% and all hazardous materials greater than 1% (if the mixture has not been evaluated for hazard) to be listed on Material Safety Data Sheets. The recent Lubrizol request is a good example of this issue.

To assist us in responding to these requests I have enclosed the OSHA carcinogen list. This is a compilation of the reference sources OSHA considers for carcinogen identification.

Where reasonable, and with your help, I would prefer the responses for these requests came from this office.



Thomas G. Grumbles

ajo/007

Enclosure

cc Carl Kerfoot

VVV 000016750

OSHA HAZARD COMMUNICATION STANDARD CARCINOGEN LIST

Sources: 29 CFR 1910; NTP 1983 Report, IARC Monographs

2-Acetylaminofluorene
Acrylonitrile
Actinomycin D
Adriamycin
Aflatoxins
2-Aminoanthraquinone
4-Aminobiphenyl
1-Amino-2-methylantraquinone
Amitrole
Analgesic mixtures containing phenacetin
o-Anisidine and o-anisidine hydrochloride
Aramite
Arsenic and certain arsenic compounds
Asbestos
Auramine manufacture
Auramine (technical grade)
Azathioprine
Benz(a)anthracene
Benzene
Benzidine
Benzo(b)fluoranthene
Benzo(a)pyrene
Benzotrichloride
Beryllium and certain beryllium compounds
N,N-bis(2-chloroethyl)-2-naphthylamine (chlornaphazine)
Bischloroethyl nitrosourea (BCNU)
Bis(chloromethyl)ether (BCME) and technical grade
chloromethyl methyl ether (CMME)
1,4-Butanediol dimethanesulphonate (Myleran)
Cadmium and certain cadmium compounds
Carbon tetrachloride
Certain combined chemotherapy for lymphomas (including MOPP)
Chlorambucil
Chloroform
bis-Chloromethyl ether
Chlorophenols (occupational exposure to)
Chromium and certain chromium compounds
Cisplatin
Coke oven emissions
Combined oral contraceptives
Conjugated oestrogens
p-Cresidine
Cupferron
Cycasin
Cyclophosphamide
Dacarbazine
DDT
2,4-Diaminoanisoie sulfate

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2,4-Diaminotoluene
 Dibenz(a,h)acridine
 Dibenz(a,j)acridine
 Dibenz(a,h)anthracene
 7H-Dibenzo(c,g)carbazole
 Dibenzo(a,h)pyrene
 1,2-Dibromo-3-chloropropane (DBCP)
 1,2-Dibromoethane (EDB)
 3,3-Dichlorobenzidene
 3,3'-Dichlorobenzidine
 1,2-Dichloroethane (EDC)
 Dienoestrol
 Diepoxybutane
 Diethyl sulphate
 Di(2-ethylhexyl)phthalate Diethylstilbestrol (DES)
 3,3'-Dimethoxybenzidine
 4-Dimethylaminoazobenzene
 3,3'-Dimethylbenzidine
 Dimethylcarbamoyl chloride
 Dimethyl sulfate
 1,4-Dioxane
 Direct Black 38
 Direct Blue 6
 Direct Brown 95 (technical grade)
 Epichlorohydrin
 Ethinyloestradiol
 Ethylene dibromide
 Ethylene oxide
 Ethylene thiourea
 Ethyleneimine
 Formaldehyde
 Hematite underground mining
 Hexachlorobenzene
 Hydrazine and hydrazine sulfate
 Hydrazobenzene
 Indeno(1,2,3-cd)pyrene
 Inorganic Arsenic
 Iron dextran complex
 Isopropyl alcohol manufacture (strong-acid process)
 Kepone (chlordecone)
 Lead acetate and lead phosphate
 Lindane and other hexachlorocyclohexane isomers
 Manufacture of magenta
 Melphalan
 Mestranol
 Methoxsalen with ultra-violet A therapy (PUVA)
 4,4'-Methylenebis(2-chloroaniline) (MOCA)
 4,4'-Methylenebis(n,n,-dimethyl)benzenamine
 Methyl chloromethyl ether
 Metronidazole
 Michler's ketone
 Mirex
 Mustard gas

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2-Naphthylamine
 alpha-Naphthylamine
 Nickel and certain nickel compounds
 Nickel refining
 Nitrilotriacetic acid
 4-Nitrobiphenyl
 5-Nitro-o-anisidine
 Nitrofen
 Nitrogen mustard
 N-Nitrosodi-n-butylamine
 N-Nitrosodiethanolamine
 N-Nitrosodiethylamine
 N-Nitrosodimethylamine
 p-Nitrosodiphenylamine
 N-Nitrosodi-n-propylamine
 N-Nitroso-n-ethylurea
 N-Nitroso-n-methylurea
 N-Nitrosomethylvinylamine
 N-Nitrosomorpholine
 N-Nitrosornicotine
 N-Nitrosopiperidine
 N-Nitrosopyrrolidine
 N-Nitrososarcosine
 Norethisterone
 Oestradiol-17B
 Oestrone
 Oxymetholone
 Phenacetin
 Phenazopyridine and phenazopyridine hydrochloride
 Phenytoin and sodium salt of phenytoin
 Phenoxyacetic acid herbicides (occupational exposure to)
 Polybrominated biphenyls (PBBs)
 Polychlorinated biphenyls (PCBs)
 Procarbazine and procarbazine hydrochloride
 Progesterone
 B-Propiolactone
 beta-Propiolactone
 Propylthiouracil
 Reserpine
 Saccharin
 Safrole
 Selenium sulfide
 Sequential oral contraceptives
 Soots, tars, and mineral oils
 Streptozotocin
 Sulfallate
 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
 Thioacetamide
 Thiourea
 Thorium dioxide
 o-Toluidine and o-toluidine hydrochloride
 Toxaphene
 Treosulphan

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2,4,6-Trichlorophenol
Tris(aziridiny1)-para-benzoquinone (Triaziquone)
Tris(1-aziridiny1)phosphine sulfide
Tris(2,3-dibromopropyl)phosphate
Uracil mustard
Urethane
Vinyl chloride

VVV 000016754