

CAS 75-15-0

Substance name Carbon disulfide

Toxicity

Carbon disulfide is neurotoxic and is identified as a reproductive and developmental toxicant by authoritative sources.¹⁻⁵ Evidence comes from laboratory animal testing as well as supportive data from epidemiological studies of workplace exposures in men and women.

Exposure

Carbon disulfide is a thermal decomposition product of zinc dibutyldithiocarbamate, a chemical used in rubber production. Consequently, it may be present in rubber as a degradation product.⁶ The most prominent industrial use of carbon disulfide is in the production of viscose rayon fibers. Carbon disulfide is also used in the production of carbon tetrachloride and cellophane, and as a solvent for rubber, sulfur, oils, resins, and waxes.² Carbon disulfide was detected at low concentrations in 4 out of 4 balloon samples in consumer product testing by the Danish EPA.⁷ It was detected in 1 out of 2 natural rubber pacifiers in testing by the Dutch government.⁶

References

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6. Dutch Inspectorate for Health Protection and Veterinary Public Health (VWA/KvW). Teats and Soothers: Migration of nitrosamines, nitrosatable substances and 2-mercaptobenzthiazol(MBT). Screening of other migrants. Report No. NDTOY003/01. June 2002.
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