

Reclassification of 1,4-bis(2,3-epoxypropoxy)butane (BDDGE, EC# 219-371-7)



Toxicological findings:

A recently completed **Extended One Generation Reproductive Toxicity Study** (EGORTS, OECD 443) performed with “Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane” (EC# 618-939-5), also referred to as HDDGE, indicated reproductive toxicity at high doses. This study was used to also determine the hazard of 1,4-bis(2,3-epoxypropoxy)butane (EC# 219-371-7) also referred to as BDDGE via a so called read-across approach.

Implications:

Under the EU CLP rules, mixtures containing this component with a reprotoxic Cat. 1B classification **at a concentration of $\geq 0.3\%$** , need to be classified as reprotoxic, Cat. 1B and be labelled with the hazard phrase “H360F: May damage fertility”.

Therefore, BDDGE (EC# 219-371-7) will need to be reclassified accordingly and labelled with the signal word “Danger” and the “Health Hazard” pictogram.

What you should do:

You will receive an updated SDS from your supplier indicating labeling to be implemented: danger words and pictograms.

Other reclassifications:

The substances below have been also reclassified as reprotoxic Cat. 1B.

- Oxirane, mono [(C12-14alkyloxy)methyl] derivatives; EC#271-846-8)
- “Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (HDDGE, EC# 618-939-5)”

About Epoxy Europe

Epoxy Europe is a sector group of Cefic, that represents the interests of the largest epoxy resin producers in Europe. For more information, please visit our website:

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