

Methyl Ethyl Ketoxime (MEKO)

Chemical Name	Methyl ethyl ketoxime
Synonyms	2-Butoxime; 2-Butanonoxim; Methyl ethyl ketone oxime; Ethyl methyl ketoxime; MEK-oxime; MEKO
CAS Number	96-29-7
CAS Name	2-Butanone oxime
EC (EINECS) Number	202-496-6

Description

- Methyl Ethyl Ketoxime (MEKO) is an essential chemical used as an anti-skinning agent in paints and lacquers, as a blocking-agent for isocyanate in polyurethanes, and in the manufacture of oxime silanes (that are used as crosslinkers for silicone sealants).
- MEKO is a high production volume (HPV) chemical produced at over one million pounds annually.
- AdvanSix has established a provisional occupational exposure limit of 3 ppm (10 mg/m³) for an 8-hour time-weighted average and a short-term exposure limit of 10 ppm for use in worksite safety programs.
- MEKO is a clear, colorless, combustible liquid.
- MEKO is severely irritating to eyes. If it gets into the eyes, immediately flush with plenty of water and seek medical attention to avoid serious damage. MEKO is moderately toxic in the unlikely event of ingestion. Ingesting or breathing high concentrations may cause harmful, but reversible, effects on the blood (anemia) and inhalation can irritate nasal passages. MEKO is slightly irritating to skin and can be absorbed through the skin to cause harmful effects on the blood and nervous system. Getting MEKO on the skin may cause an allergic response in certain individuals. Please see the Safety Data Sheet (SDS) for additional information.
- MEKO is rapidly metabolized and eliminated from the body. MEKO does not cause harmful effects on reproduction or development.
- Male rodents developed liver tumors when repeatedly exposed during their lifetime to high concentrations of MEKO. These tumors developed late in life and did not affect survival. MEKO is not genotoxic, pointing to a threshold mechanism for cancer development (i.e., a “safe level” below which cancer will not occur: a level well above typical exposures). Therefore, the human risk of cancer is low.
- MEKO has low toxicity to aquatic organisms, upon either single or repeated exposure.
- MEKO has minimal potential to accumulate in the bodies of humans or animals. It is readily biodegradable and will not persist in the environment.

Useful Resources

For more information about this product, [contact AdvanSix](#). Also see [EPA Chemical Information Collection and Data Development](#).

Contact AdvanSix

To learn more about MEKO visit

[AdvanSix.com/chemicalintermediates](https://www.advansix.com/chemicalintermediates)

or call:

1-844-890-8949 (toll free, U.S./Can.)

+1-973-526-1800 (international)

AdvanSix

300 Kimball Drive, Suite 101
Parsippany, NJ 07054

This product safety summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information on the chemical is available through the applicable Safety Data Sheet which should be consulted before use of the chemical. The product safety summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.



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