

Methyl Isobutyl Ketoxime

Product Stewardship Summary

September 2008



Chemical Name:	Methyl isobutyl ketoxime
Chemical Category (if applicable):	Oxime
Synonyms:	MIBKO; 4-Methyl-2-pentanone oxime; 4-Methylpentan-2-one oxime
CAS Number:	105-44-2
CAS Name:	2-Pentanone, 4-methyl-, oxime
EC (EINECS) Number:	203-298-2
Other identifier (Please specify):	GPS0017 V1.0

- Methyl isobutyl ketoxime (MIBKO) is an essential chemical intermediate used in production of various silanes and it prevents the formation of solid or gelatinous skin in the packaged containers of paints, lacquers and printing inks.
- Workplace exposure to MIBKO vapors may occur at sites of drumming and filling of containers and near tank cars, and at sites of production of silanes, solvent-based paints, lacquers, and inks. Consumers may be exposed to very low vapor concentrations of MIBKO when using solvent-based paints or lacquers, or when applying sealants containing MIBKO-silane crosslinking agents.
- Honeywell has established a workplace exposure limit of 3 ppm for MIBKO as an 8 hr time-weighted average with a notation to avoid skin contact for use in worksite safety programs. Products containing MIBKO should be used in areas with adequate ventilation. Users should employ monitoring programs as appropriate to ensure that personnel are not exposed to unsafe levels of MIBKO.
- MIBKO is a clear colorless combustible liquid.
- MIBKO is slightly toxic in the unlikely event of ingestion. It is moderately irritating to the skin and eyes. If the skin is exposed for an extended period, it can be absorbed through the skin and cause harmful, but reversible, effects on the blood (anemia). Breathing high concentrations of MIBKO may cause harmful, but reversible, effects on the blood and irritate nasal passages.
- Chronic exposure to high concentrations of MIBKO may cause harmful effects on the blood (anemia) and irritate nasal passages, but these effects are reversible and not considered serious. MIBKO does not cause harmful effects on reproduction.

This product stewardship 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 Material Safety Data Sheet which should be consulted before use of the chemical. The product stewardship 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.

- The cancer risk for MIBKO is low.
- MIBKO's toxicity to aquatic organisms is considered low.
- MIBKO has minimal potential to accumulate in the bodies of humans or animals. It is biodegradable and will not persist in the environment.
- Please [contact us](#) for more information.

