

Eastman oxygenated solvents
cleared for use as inert ingredients in pesticide
formulations under U.S. EPA regulations
40 CFR 180.910, 180.920, and 180.930

Eastman Chemical Company offers a broad range of solvents that can be used in agricultural formulation. Oxygenated solvents help compatibilize water-insoluble active ingredients. Eastman's solvent portfolio is composed of a wide selection of alcohols, esters, ether ester, glycol ethers, glycol ether esters, and ketones. Glycol ethers offer a number of beneficial properties, including high solvency, high stability, and controlled evaporation rates.

The U.S. EPA regulations can be viewed at the Electronic Code of Federal Regulations (e-CFR) website, www.ecfr.gov.

Food use with limitations

40 CFR 180.910 Inert ingredients used pre- and postharvest; exemptions from the requirement of a tolerance

Residues of the following materials are exempted from the requirement of a tolerance when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest.¹

Product	Type	CAS
2-Ethylhexanol ²	Alcohol	104-76-7
<i>n</i> -Propanol	Alcohol	71-23-8
<i>n</i> -Butanol	Alcohol	71-36-3
Ethyl acetate	Ester	141-78-6
Methyl isobutyl ketone (MIBK)	Ketone	108-10-1
Methyl <i>n</i> -amyl ketone (MAK)	Ketone	110-43-0

40 CFR 180.920 Inert ingredients used preharvest; exemptions from the requirement of a tolerance

The following materials are exempted from the requirement of a tolerance when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops only.¹

Product	Type	CAS
2-Ethylhexanol	Alcohol	104-76-7
Isobutanol	Alcohol	78-83-1
1-Methoxy-2-propanol (PM solvent)	Glycol ether	107-98-2
2-Butoxyethanol (EB solvent)	Glycol ether	111-76-2
2-(2-Methoxy)ethanol (DM solvent)	Glycol ether	111-77-3
DEG monoethyl ether (DE solvent)	Glycol ether	111-90-0
Ethanol, 2-(2-butoxyethoxy) (DB solvent)	Glycol ether	112-34-5
Methyl isobutyl ketone (MIBK)	Ketone	108-10-1

40 CFR 180.930 Inert ingredients applied to animals; exemptions from the requirement of a tolerance

The following materials are exempted from the requirement of a tolerance when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to animals.¹

Product	Type	CAS
2-Ethylhexanol ²	Alcohol	104-76-7
<i>n</i> -Propanol	Alcohol	71-23-8
<i>n</i> -Butanol	Alcohol	71-36-3
1-Methoxy-2-propanol (PM solvent)	Glycol ether	107-98-2
Methyl isobutyl ketone (MIBK)	Ketone	108-10-1
Methyl <i>n</i> -amyl ketone (MAK)	Ketone	110-43-0

Eastman oxygenated solvents cleared for use as inert ingredients in pesticide formulations under U.S. EPA regulations on the 40 CFR 180 Approved for Nonfood Use list

For nonfood use, the following Eastman oxygenated solvents appear on the 40 CFR 180 Approved for Nonfood Use list.¹

Product	Type	CAS
2-Ethylhexanol	Alcohol	104-76-7
Eastman Texanol™ ester alcohol	Alcohol	25265-77-4
<i>n</i> -Propanol	Alcohol	71-23-8
<i>n</i> -Butanol	Alcohol	71-36-3
Isobutanol	Alcohol	78-83-1
2-Ethylhexyl acetate	Ester	103-09-3
Isopropyl acetate	Ester	108-21-4
Propyl acetate	Ester	109-60-4
Isobutyl acetate	Ester	110-19-0
Butyl acetate	Ester	123-86-4
Ethyl acetate	Ester	141-78-6
Eastman Optifilm™ enhancer 300	Ester	6846-50-0
Isobutyl isobutyrate (IBIB)	Ester	97-85-8
EEP solvent	Ether ester	763-69-9
1-Methoxy-2-propanol (PM solvent)	Glycol ether	107-98-2
2-Butoxyethanol (EB solvent)	Glycol ether	111-76-2
2-(2-Methoxy)ethanol (DM solvent)	Glycol ether	111-77-3
DEG monoethyl ether (DE solvent)	Glycol ether	111-90-0
Ethanol, 2-(2-butoxyethoxy) (DB solvent)	Glycol ether	112-34-5
Ethanol, 2-propoxy (EP solvent)	Glycol ether	2807-30-9
2-Butoxyethanol acetate (EB acetate)	Glycol ether ester	112-07-2
Propylene glycol monomethyl ether acetate (PM acetate) ³	Glycol ether ester	108-65-6
Methyl <i>n</i> -amyl ketone (MAK)	Ketone	110-43-0
Diisobutyl ketone (DIBK)	Ketone	108-83-8
Methyl isoamyl ketone (MIAK)	Ketone	110-12-3
Methyl propyl ketone (MPK)	Ketone	107-87-9
Methyl isobutyl ketone (MIBK)	Ketone	108-10-1

If you have any questions or require further information, please contact us via our website at www.eastman.com/solvents.

¹Electronic Code of Federal Regulations, Title 40—Protection of the Environment: Chapter 1—Environmental Protection Agency, Subchapter E—Pesticide Programs, Part 180—Tolerances and Exemptions for Pesticide Chemical Residues in Food (<http://www.ecfr.gov>)

² Not more than 10% of pesticide

³The EPA has confirmed this product as an alternate CAS Reg. No. for 70657-70-4, which is listed in InertFinder for nonfood use only as inert ingredients in pesticide formulations.

NOTE: Pesticide formulations must be identified to, and registered with, the EPA. Manufacturers of pesticide formulations should consult the EPA for information on the procedures required to obtain product registrations.



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