Ethylene Glycol

	Crop Production			
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2	Identification of Petitioned Substance			
3 4	Chemical Name: Ethylene Glycol	CAS Number: 107-21-1		
5 6 7 8 9 10 11 12 13 14	Other Names: 1,2-dihydroxyethane 1,2-Ethanediol monoethylene glycol 2-hydroxyethanol ethylene alcohol ethylene dihydrate	Other Codes: European Inventory of Existing Commercial Chemical Substances (EINECS) No. 203-473-3 National Institute for Occupational Safety and Health/Registry of Toxic Effects of Chemical Substances – KW2975000 Hazardous Substance Data Bank – 5012 National Cancer Institute – C00920		
15 16	Trade Names:	18 19 20		

21 22

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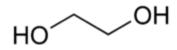
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Composition of the Substance:



Characterization of Petitioned Substance

Ethylene Glycol Chemical Structure

29 Ethylene glycol is used as a de-icer and anti-icer (antifreeze). It is a deactivator for all pesticides used

30 before the crop emerges from the soil and in herbicides before or after the crop emerges. Also, it is a

31 component in hydraulic brake fluid and inks, and is used as a solvent. The molecular formula for ethylene 32 glycol is $C_2H_6O_2$ and the molecular weight is 62.7.

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34 **Properties of the Substance:**

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Product Chemistry		
Physical State	Viscous liquid	
Color	Colorless	
Odor	Odorless	
Melting Point	– 13 degrees Centigrade	
Boiling Point	198 degrees Centigrade	
Specific Gravity	1.11	
Water Solubility	Soluble in water	
Vapor Pressure	0.06 mm Hg at 20 degrees Centigrade	
Vapor Density	2.14	
Flashpoint	127 degrees Centigrade	
Explosive Limits	3.20 - 15.30%	

March 1, 2010

36 37

7 Specific Uses of the Substance:

3839 Ethylene glycol has been used in a wide variety of industrial applications because of its unique chemical

and physical properties. Approximately 35% of all ethylene glycol is used to make solid state resins, 26% is
used in antifreeze, 24% is used to make polyester fibers, 4% is used to make polyester films, 3% is used in

42 chip resin exports, and 8% is used in surface coatings, polyester and alkyd resins, chemical intermediates,

43 and other miscellaneous industrial applications (CMR, 2004).

44

45 Ethylene glycol plays an essential role in the transportation industry, where it is used as an ingredient in

hydraulic brake fluids, as the major component in automotive antifreeze/coolant, and as a component of
 de-icing fluids for aircraft, runways, and taxiways (Forkner et al., 2004; Lewis, 2001; O'Neil et al., 2001; and

48 Rebsdat and Mayer, 2005). Another important industrial use for ethylene glycol is as an intermediate in

49 the synthesis of esters, ethers, and resinous products, particularly polyester fibers and resins (O'Neil et al.,

50 2001; and Rowe and Wolf, 1982). As a solvent, ethylene glycol is used in the paint and plastic industries;

51 the formulation of printers' inks, stamp pad inks, and inks for ball point pens; and as a softening agent in

52 cellophane (O'Neil et al., 2001). Ethylene glycol has also been used as a stabilizer for soy bean foam used in

fire extinguishers and in the manufacture of explosives, plasticizers, elastomers, and synthetic waxes
 (Lewis, 2001 and O'Neil et al., 2001). Earlier, Browning (1965) noted small amounts of ethylene glycol have

54 (Lewis, 2001 and O'Neil et al., 2001). Earlier, Browning (1965) noted small amounts of ethylene glycol have 55 been used in pharmaceutical preparations (components of skin lotions and powders and as a substitute for

56 glycerin).

50 gry

58 <u>Approved Legal Uses of the Substance:</u> 59

60 An inert ingredient is defined by the U.S. Environmental Protection Agency as any ingredient in a pesticide

61 product that is not intended to affect a target pest. EPA has reassessed ethylene glycol under 40 CFR

62 180.920 when used as an inert ingredient "Antifreeze, deactivator for all pesticides used before crop

63 emerges from soil and in herbicides before or after crop emerges." The Agency concluded in the

64 reassessment that, based on the available information, when used in accordance with good agricultural

65 practice, ethylene glycol could "be considered reassessed as safe under section 408(q) of the FFDCA." The

66 conclusion from the tolerance exemption reassessment of ethylene glycol under 40 CFR 180.920 also applies

to its tolerance exemption under 40 CFR 180.1040, and the exemption is to be maintained. The use pattern

of ethylene glycol under 40 CFR 180.1040 significantly limits its exposure potential and does not impact in

any significant way the exposure potential of ethylene glycol under 40 CFR 180.920, and therefore, the risk

conclusions under 40 CFR 180.920 remain unchanged. Ethylene glycol can be found on page four of the 72

71 page list of inert ingredients last updated by EPA on January 27, 2009. –see:

72 http://www.epa.gov/opprd001/inerts/inert_nonfooduse.pdf and

- 73 <u>http://www.epa.gov/opprd001/inerts/ethyleneglycol.pdf</u>.
- 74

75 Under the Federal Insecticide, Fungicide, and Rodenticide Act, ethylene glycol is exempt from tolerances

- for residues when used in foliar applications to peanut plants (U.S. EPA, 2007a)
- 77

The U. S. Food and Drug Administration approved ethylene glycol for use only as components of adhesives used in articles to package, transport, or hold food (21 CFR 175.105).

80

81 Ethylene glycol is not listed in 21 CFR Part 184 by the U.S. Food and Drug Administration (FDA) as a direct

food substance affirmed as generally recognized as safe (GRAS). It is not listed in 21 CFR Part 186 as an

83 indirect food substance affirmed as GRAS. Nor is it listed among the more than 3000 substances that

- comprise an FDA inventory known as "Everything Added to Food in the United States" (EAFUS). The
- 85 EAFUS list of substances contains ingredients added directly to food that FDA has either approved as food

86 additives or listed or affirmed as GRAS.

87

88

89 Action of the Substance: 90 91 Ethylene glycol dissolves in water and is miscible in alcohol and acetone, has the capability to hold large 92 amounts of heat before boiling, and lowers the freezing point of water (Lewis, 2001; O'Neil et al., 2001; and 93 Rebsdat and Mayer, 2005). In addition, ethylene glycol is hygroscopic (has the ability to absorb twice its 94 weight in water), is suitable for use as an industrial humectant (drying agent), and possesses excellent 95 solvent properties (Forkner et al., 2004; Lewis, 2001; and O'Neil et al., 2001). 96 97 Status 98 99 **U.S. Environmental Protection Agency:** 100 101 Ethylene glycol is permitted as an inert ingredient for use in non-food use pesticide products by the U.S. Environmental Protection Agency (40 CFR 180.920) - see: 102 103 http://www.epa.gov/opprd001/inerts/inert_nonfooduse.pdf 104 105 An inert ingredient is defined by the U.S. Environmental Protection Agency as any ingredient in a pesticide 106 product that is not intended to affect a target pest. EPA announced its policy on toxic inert 107 ingredients in pesticide products in the Federal Register of April 22, 1987 (52 FR 13305). Through its policy, 108 EPA encourages the use of the least toxic inert ingredients available and requires the development of 109 data necessary to determine the conditions of safe use of products that contain toxic inert ingredients. In 110 developing this policy, EPA categorized inert ingredients into the following four lists according 111 to toxicity: 112 List 1--Inerts of toxicological concern. 113 List 2--Potentially toxic inerts, with high priority for testing. 114 List 3--Inerts of unknown toxicity. List 4--Inerts of minimal concern. 115 116 In the Federal Register of November 22, 1989 (58 FR 48314), EPA issued a notice announcing some modifications to the previously published Lists 1 and 2. In that notice, EPA also noted that List 4 was being 117 118 divided into two parts. The original List 4 became List 4A, representing minimal risk inert ingredients. List 119 4B was created to represent inert ingredients for which EPA has sufficient information to conclude that 120 their current use patterns in pesticide products will not adversely affect public health and the environment. 121 122 Ethylene glycol (CAS Registry No. 107-21-1) was on the U.S. Environmental Protection Agency's List 3 -123 Inerts of Unknown Toxicity. List 3 is now obsolete, and because EPA has determined that there is a 124 reasonable certainty that no harm to any population subgroup will result from aggregate exposure to 125 ethylene glycol when used as an inert ingredient in pesticide formulations, the List Classification for 126 ethylene glycol was changed from List 3 to List 4B in 2006. http://www.epa.gov/opprd001/inerts/ethyleneglycol.pdf. 127 128 129 Under the Federal Insecticide, Fungicide, and Rodenticide Act, ethylene glycol is exempt from tolerances 130 for residues when used in foliar applications to peanut plants (U.S. EPA, 2007a) 131 132 U.S. Environmental Protection Agency (2007b) has designated ethylene glycol as a hazardous air pollutant under the Clean Air Act. Ethylene glycol is on the list of chemicals appearing in "Toxic Chemicals Subject 133 134 to Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986" and it has been 135 assigned a reportable quantity limit of 5,000 pounds (U.S. EPA, 2007c). The reportable quantity limit 136 represents the amount of a designated hazardous substance which, when released to the environment, 137 must be reported to the appropriate authority. 138 139 140 141 142

143	U.S. Food and Drug Administration:
144	
145	The U.S. Food and Drug Administration approved ethylene glycol for use only as components of adhesives
146	used in articles to package, transport, or hold food (21 CFR 175.105).
147	
148	Consumer Product Safety Commission:
149	
150	Ethylene glycol (or mixtures containing 10% or more by weight of ethylene glycol) is designated as a
151	hazardous substance under Section 3(b) of the Federal Hazardous Substances Act and requires special
152	labeling (Consumer Product Safety Commission, 2007). The Commission identifies the major factors that it
153	considers when evaluating liquid-filled children's products that contain hazardous chemicals, and informs
154	the public of its experience with exposure to these hazardous chemicals to children. To reduce the risk of
155	exposure to hazardous chemicals, such as mercury, ethylene glycol, diethylene glycol, methanol, ethylene
156	chloride, petroleum distillates, toluene, xylene, and related chemicals, the Commission requests
157	manufacturers to eliminate the use of such chemicals in children's products. The Commission
158	also recommends that, before purchasing products for resale, importers, distributors, and retailers obtain
159	assurances from manufacturers that liquid-filled children's products do not contain hazardous liquid
160	chemicals.
161	See: http://edocket.access.gpo.gov/cfr_2009/jangtr/pdf/16cfr1500.231.pdf.
162	
163	International:
164	
165	Ethylene glycol is not listed as a carcinogen by the International Agency for Research on Cancer.
166	
167	Ethylene glycol is not allowed for use in organic crop production by either the European Union (European Union,
168	2008) or Codex Alimentarius (Codex Alimentarius, 2008).
169	
170	
171	Evaluation Questions for Substances to be used in Organic Crop or Livestock Production
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173	Evaluation Question #1: Is the petitioned substance formulated or manufactured by a chemical process?
174	(From 7 U.S.C. § 6502 (21).)
175	
176	Ethylene glycol is manufactured by a method introduced in 1937, where ethylene oxide is formed from
177	ethylene by direct oxidation. Ethylene oxide is then hydrolyzed to ethylene glycol (Brown et al., 1980 and
178	Forkner et al., 2004). Ethylene oxide reacts with water to produce ethylene glycol according to the chemical
179	equation $C_2H_4O + H_2O \rightarrow HOCH_2CH_2OH$. This reaction can be catalyzed by either acids or bases, or can
180	occur at neutral pH under elevated temperatures. This soon became the primary method for the
181	production of ethylene glycol and is currently the only method used in the United States (Brown et al.,
182	1980; Forkner et al., 2004; and Rebsdat and Mayer, 2005).
183	1900) 1 officiel et all, 2001, alla recolati alla fragel, 2000).
184	Ethylene oxide is converted to ethylene glycol through un-catalyzed neutral hydrolysis (pH 6 – 10) in the
185	presence of a large excess of water at high temperatures and pressures (Forkner et al., 2004 and Rebsdat
186	and Mayer, 2005). Selectivity of ethylene glycol is 89 – 91% in this process. The primary byproduct is di-
187	ethylene glycol with higher glycols such as tri-ethylene and tetra-ethylene glycols formed in smaller
187	amounts. This product mixture is fed through a series of evaporators to remove the water and then
188	through vacuum distillation for separation and refinement of the individual glycols.
190	anough vacuum distination for separation and remement of the individual giveois.
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Technical Evaluation Report Ethylene Glycol Crop Production 191 Evaluation Question #2: Is the petitioned substance formulated or manufactured by a process that chemically changes the substance extracted from naturally occurring plant, animal, or mineral sources? 192 (From 7 U.S.C. § 6502 (21).) 193 194 There are no naturally occurring plant, animal, or mineral sources of ethylene glycol. The chemically 195 synthesized ethylene glycol is the only form that is available for use. 196 197 Evaluation Question #3: Is the petitioned substance created by naturally occurring biological processes? (From 7 U.S.C. § 6502 (21).) 198 199 200 Ethylene glycol may be released to soil via natural processes associated with the metabolism of ethylene by plants (Blomstrom and Beyer, 1980). In vegetation of all types, most phases of plant development are 201 202 affected by the metabolic process which produces ethylene glycol as a by-product. This biological process 203 however, cannot produce enough ethylene glycol for the numerous uses it has commercially. 204 205 Evaluation Question #4: Is there environmental contamination during the petitioned substance's 206 manufacture, use, misuse, or disposal? (From 7 U.S.C. § 6518 (m) (3).) 207 208 In air, estimated releases of 2.9 million pounds of ethylene glycol to the atmosphere from 1,487 domestic manufacturing and processing facilities in 2005, accounted for about 29% of the estimated total 209 210 environmental releases from facilities required to report to the Toxics Release Inventory (TRI05, 2007). During the application of de-icing solutions to aircraft, an estimated 49 – 80% of de-icing solutions 211 212 containing ethylene glycol are released on airport runways. The remainder is retained on the aircraft or is 213 immediately dispersed to the air (Sills and Blakeslee, 1992). 214 215 In water, estimated releases of 0.54 million pounds of ethylene glycol to surface water from 1,487 domestic 216 manufacturing and processing facilities in 2005, accounted for about 6% of the estimated total 217 environmental releases from facilities required to report to the Toxics Release Inventory (TRI05, 2007). Ethylene glycol is released to surface waters in waste water from production and processing facilities, from 218 219 spills, in runoff (i.e., through the use of ethylene glycol as de-icing fluids), and in the disposal of used 220 antifreeze. The U.S. EPA (2000) estimated that 21 million gallons of aircraft de-icing fluid (including both 221 ethylene and propylene glycol-based fluids) are discharged to surface waters per year in the United States 222 with an additional 2 million gallons discharged to publically owned treatment works. Ethylene glycol that is released onto the ground when used in aircraft de-icing fluid may contaminate nearby groundwater 223 224 (Corsi et al., 2001). Groundwater samples collected from a perched water table at the Ottawa Airport in 225 Canada contained 415 mg/L of ethylene glycol (Sills and Blakeslee, 1992). 226 227 In soils, estimated releases of 1.7 million pounds of ethylene glycol to soils from 1,487 domestic 228 manufacturing and processing facilities in 2005, accounted for about 17% of the estimated total 229 environmental releases from facilities required to report to the Toxics Release Inventory (TRI05, 2007). An 230 additional 1.9 million pounds, constituting about 19% of the total environmental emissions, were released via underground injection (TRI05, 2007). The major sources of ethylene glycol release to soil are from the 231 232 disposal of used antifreeze fluids and de-icing fluids containing this compound (U.S. EPA, 1979 and 1987 233 and Ware, 1988). Ethylene glycol may also be released to soil via natural processes associated with the 234 metabolism of ethylene by plants (Blomstrom and Beyer, 1980). 235 236 The above information was taken from the Agency for Toxic Substances & Disease Registry (ATSDR), 237 Toxicological Profile for Ethylene Glycol. See-238 http://www.atsdr.cdc.gov/toxprofiles/tp96.html#bookmark09. 239

240 U.S. EPA TRI Program

- 241
- 242 The United States (U.S.) Environmental Protection Agency (EPA) Toxics Release Inventory (TRI)
- 243 program collects information on the disposal or other releases and other waste management
- 244 activities for over 650 chemicals from industrial sources in all 50 states and the U.S. territories.

245 The information has been collected annually since 1987. For 2005, the latest year for which data are available, disposal or other releases of TRI chemicals totaled almost 4.34 billion pounds from 246 almost 23,500 U.S. facilities submitting over 89,300 chemical forms. 247 248 249 Evaluation Question #5: Is the petitioned substance harmful to the environment? (From 7 U.S.C. § 6517 250 (c) (1) (A) (i) and 7 U.S.C. § 6517 (c) (2) (A) (i).) 251 252 Ethylene glycol has a low vapor pressure and dissolves in water. If released to the atmosphere (i.e., as 253 vapors generated at elevated temperatures), ethylene glycol should exist almost entirely in the vapor phase 254 (Eisenreich et al., 1981). The high solubility of ethylene glycol in water ensures that at least partial removal 255 of the compound will occur by wet deposition. Ethylene glycol released to surface water likely will not partition to the atmosphere via volatilization (Thomas, 1990). Ethylene glycol is not expected to adsorb to 256 sediment or soil particles and it is expected to have a very high mobility in soil and could leach into 257 258 groundwater (Swann et al., 1983). 259 260 Ethylene glycol undergoes rapid photochemical oxidation by reacting with hydroxyl free radicals with a 261 half-life of 1.4 days (Atkinson, 1989 and U.S. EPA, 1993). It is degraded in both water (Battersby and Wilson, 1989; Bieszkiewicz et al., 1979; Bridie et al., 1979; Caskey and Taber, 1981; Dwyer and Tiedje, 1983; 262 263 and Evans and David, 1974) and soil (Klecka et al., 1993; McGahey and Bouwer, 1992; and Revitt and 264 Worrall, 2003) primarily by biodegradation. Based on the available data, ethylene glycol is biodegraded 265 under both aerobic and anaerobic conditions from within a day to a few weeks. 266 267 The lethal concentrations (LC_{50}) of ethylene glycol in rainbow trout, bluegill/sunfish, and gold fish were 268 41,000 mg/L at 96 hours, 27,500 – 41,000 mg/L at 96 hours, and 27,500 – 41,000 mg/L at 96 hours, 269 respectively. For the water flea, *Phytobacterium phosphoreum*, the LC_{50} was 46,300 mg/L at 48 hours. 270 271 The following is quoted directly from the Concise International Chemical Assessment Document (CICAD) on the 272 environmental aspects of ethylene glycol: 273 274 "Ethylene glycol released to the atmosphere will be degraded by 275 reaction with hydroxyl radicals; the half-life for the compound in 276 this reaction has been estimated at between 0.3 and 3.5 days. 277 278 No hydrolysis of ethylene glycol is expected in surface waters. 279 280 The compound has little or no capacity to bind to particulates 281 and will be mobile in soil. 282 283 The low octanol/water partition coefficient and measured 284 bioconcentration factors in a few organisms indicate low capacity for 285 bioaccumulation. 286 287 Ethylene glycol is readily biodegradable in standard tests using sewage sludge. Many studies show 288 biodegradation under both aerobic and anaerobic conditions. Some studies suggest a lag phase before 289 degradation, but many do not. Degradation occurs in both adapted and unadapted sludges. Rapid 290 degradation has been reported in surface waters (less in salt water than in fresh water), groundwater, and 291 soil inocula. Several strains of microorganisms capable of utilizing ethylene glycol as a carbon source have 292 been identified." 293 294 This CICAD on the environmental aspects of ethylene glycol was prepared by the Institute of Terrestrial 295 Ecology, United Kingdom, based on the report Environmental hazard assessment: Ethylene glycol (Nielsen et al., 1993). The report on ethylene glycol prepared by the German Chemical Society Advisory Committee on 296 297 Existing Chemicals of Environmental Relevance (BUA, 1991) was also used as a source document. In 298 addition to these documents, a search of recent literature was conducted up to 1998. This CICAD was 299 approved as an international assessment at a meeting of the Final Review Board, held in Washington, DC,

 http://www.inchem.org/documents/cicads/cicads/cicad_22.htm. Evaluation Question #6: Is there potential for the petitioned substance to cause chemical interaction with other substances used in organic crop or livestock production? (From 7 U.S.C. § 6518 (m) (1).) According to Material Safety Data Sheet (MSDS) for ethylene glycol from Malinckrodt Baker, Inc., ethylen glycol is incompatible with strong oxidizing agents. It reacts violently with chlorosulfonic acid, oleum, sulfuric acid, and perchloric acid. At room temperature it will cause ignition with chromium trioxide, potassium permanganate and sodium peroxide; causes ignition at 212° F (100° C) with ammonium dichromate, silver chlorate, sodium chloride, and uranyl nitrate. Of the specific chemicals listed as being incompatible with ethylene glycol, none appear on the National Organic Program's National List of Allowe and Prohibited Substances. Three incompatibles appear in the OMRI Generic Materials List (2009), sodium chloride, sulfuric acid, and potassium permanganate. The Organic Materials Review Institute (OMRI) is a national nonprofit organic food and fiber under the USDA National Organic Program Rule. Sodium chloride (salt) is allowed with restrictions for use as a pest lure, repellent, or as part of a trap, or as a disease control. It may be used for other pesticidal purposes only if the requirements of 205.206(e) or met. For livestock, sodium chloride may be used as a source of sodium and chlorine, and in 	EXAMPLA Is there potential for the petitioned substance to cause chemical interaction sed in organic crop or livestock production? (From 7 U.S.C. § 6518 (m) (1).) fety Data Sheet (MSDS) for ethylene glycol from Malinckrodt Baker, Inc., ethylene ith strong oxidizing agents. It reacts violently with chlorosulfonic acid, oleum, oric acid. At room temperature it will cause ignition with chromium trioxide, e and sodium peroxide; causes ignition at 212° F (100° C) with ammonium te, sodium chloride, and uranyl nitrate. Of the specific chemicals listed as being one glycol, none appear on the National Organic Program's <i>National List of Allowed</i> ear in the <i>OMRI Generic Materials List</i> (2009), sodium chloride, sulfuric acid, and e. The Organic Materials Review Institute (OMRI) is a national nonprofit s products to determine their suitability for producing, processing, and handling nder the USDA National Organic Program Rule.	300 USA, on 8-11 December 1998. The CICAD report on ethylene glycol can be viewed at:
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Ethylene Glycol

355 at ethylene concentrations of 100 and 1,000 ppm, respectively; however, substrate concentrations of 10,000 ppm 356 showed negligible loss of ethylene glycol. The rate of degradation was higher in soils with high organic matter. A 357 doubling in the degradation rate was observed with a 10°C increase in soil temperature. McGahev and Bouwer, 358 (1992) concluded that microorganisms naturally occurring in soils and groundwater are effective in biodegrading ethylene glycol with a half-life ranging from 0.2 to 0.9 days. Therefore, it seems that soils and microorganisms are 359 360 not detrimentally affected by ethylene glycol, except at very high concentrations. 361 362 Concise International Chemical Assessment Documents (CICADs) are the latest in a family of publications 363 from the International Programme on Chemical Safety (IPCS) -- a cooperative programme of the World Health Organization (WHO), the International Labour Organisation (ILO), and the United Nations 364 365 Environment Programme (UNEP). CICADs join the Environmental Health Criteria documents (EHCs) as 366 authoritative documents on the risk assessment of chemicals. 367 368 The following is directly quoted from the Concise International Chemical Assessment Document 22, 369 Ethylene Glycol: Environmental Aspects. 370 371 "Terrestrial organisms are much less likely to be exposed to ethylene glycol and generally show low sensitivity to the compound. 372 373 Concentrations above 100 000 mg/litre were needed to produce toxic 374 effects on yeasts and fungi from soil. Very high concentrations and 375 soaking of seeds produced inhibition of germination in some 376 experiments; these are not considered of environmental significance. A 377 no-observed-effect level (NOEL) for orally dosed ducks at 1221 mg/kg 378 body weight and reported lethal doses for poultry at around 8000 mg/kg body weight indicate low toxicity to birds." 379 380 381 382 No information was found on the effect of ethylene glycol on crops. Domestic cats have a voracious appetite for 383 ethylene glycol and often experience kidney failure when they have access to antifreeze containing this compound 384 (Lewis, 1998). This is likely due to the sweet taste of ethylene glycol and other domestic and farm animals may react 385 in a similar manner. Therefore, animals should not have access to ethylene glycol containing compounds and any 386 spills should be cleaned-up immediately. 387 388 Evaluation Question #9: Is there a toxic or other adverse action of the petitioned substance or its 389 breakdown products? (From 7 U.S.C. § 6518 (m) (2).) 390 391 The National Institute for Occupational Safety and Health/Registry of Toxic Effects of Chemical Substances has the 392 following toxicological data for ethylene glycol: 393 394 **Ocular Exposure:** 395 396 Draize test, rabbit, eye: 500 mg/24 hours -mild 397 Draize test, rabbit, eye: 100 mg/one hour - mild 398 Draize test, rabbit, eye: 1,440 mg/six hours - moderate 399 400 Lethal Dose (LD₅₀): 401 402 Oral, mouse: $LD_{50} = 5,500 mg/kg$ 403 Oral, rat: $LD_{50} = 4,700 mg/kg$ 404 Skin, rabbit: $LD_{50} = 9,530 \text{ uL/kg}$ 405 406 Ethylene glycol is more acutely toxic for humans than for laboratory animals by ingestion. The single oral lethal dose for humans has been estimated at 1.4 mL/kg or about 100 mL for an adult. 407 408 409 Carcinogenicity: 410

- 411 Ethylene glycol is not listed as a carcinogen by the American Conference of Governmental Industrial
- Hygienists, International Agency for Research on Cancer, the National Toxicology Program, or CaliforniaProposition 65.
- 414

415 Data on the epidemiological, reproductive, neurotoxic, and mutagenic effects of ethylene glycol are not

- available. An expert panel convened by the National Toxicology Program's Center for the Evaluation of
 Risks to Human Reproduction concluded that developmental and reproductive risks stemming from
- 417 exposure to the chemicals propylene glycol and ethylene glycol are negligible.
- 418 exposure to the chemicals propylene glycol and ethylene glycol are negligible. 419
- 420 In case of the ingestion of ethylene glycol, it is sequentially metabolized to glycoaldehyde, glycolic acid,
- 421 glyoxylic acid, oxalic acid, and finally to calcium oxalate. Adverse renal effects occur 24 72 hours after
- 422 the ingestion of large amounts of ethylene glycol and are characterized by the presence of calcium oxalate
- monohydrate crystals in the renal tubules and urine. Characteristic histo-pathological changes include
 renal tubular focal degeneration, atrophy, and interstitial inflammation. Renal damage, if untreated, can
- 424 Tenar tubular local degeneration, alrophy, and interstitial inflammation. Renal damage, if untreated, can
 425 lead to renal failure. With therapy, normal or near-normal renal function can be restored (Agency for Toxic
 426 Substances and Disease Registry, 2007).
- 427

428Evaluation Question #10:Is there undesirable persistence or concentration of the petitioned substance429or its breakdown products in the environment? (From 7 U.S.C. § 6518 (m) (2).)

430

A primary tool used to determine the environmental fate of chemicals is the determination of the octanol/water

- 432 partition coefficient which is the ratio of the chemical concentration in octanol divided by the concentration in water.
- 433 The octanol/water partition coefficient has been shown to correlate well with bioconcentration factors in aquatic
- 434 organisms and adsorption to soil or sediment. An octanol-water partition coefficient of <3 is considered low.
- 435 Ethylene glycol dissolves in water. In soils, ethylene glycol is expected to have a very high mobility,
- 436 especially in moist soil, therefore, it could leach into ground water (Swann et al., 1983). Its low
- 437 octanol/water partition coefficient value of -1.36 suggests that bio-concentration and bio-magnification of
 438 ethylene glycol are not likely to occur (Agency for Toxic Substances and Disease Registry, 2007). Based on
 439 the available data, ethylene glycol is biodegraded under both aerobic and anaerobic conditions from within
- a day to a few weeks, depending on on substrate concentrations, soil types, and ambient soil temperature.
- 441

442 It appears that ethylene glycol degrades more rapidly at higher ambient temperatures than at low ambient 443 temperatures (Evans and David, 1974). Dwyer and Tiedje (1983) proposed that the methanogenic

- 444 degradation pathway for ethylene glycol proceeds through the formation of ethanol, followed by acetate.
- Both ethanol and acetate would be readily metabolized and utilized as energy sources by microorganisms.
- 446

447Evaluation Question #11:
(From 7 U.S.C. § 6517 (c) (1) (A) (i), 7 U.S.C. § 6517 (c) (2) (A) (i) and), 7 U.S.C. § 6518 (m) (4).)

- 449450 Some of the potential health effects of ethylene glycol are:
- 451

453

452 Eye: May cause moderate eye irritation.

454 Skin: Low hazard for usual industrial handling. A single prolonged skin exposure is not likely to result in 455 the material being absorbed in harmful amounts.

456

Ingestion: The lethal dose in adult humans for ethylene glycol is about 100 mL (1/3 cup). Swallowing may
cause nausea, vomiting, or diarrhea. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure.

460

Inhalation: If ethylene glycol is heated or misted in work areas that are poorly ventilated, vapor/mist may
 accumulate and cause respiratory irritation and symptoms such as headache and nausea. Ethylene glycol
 has a very low vapor pressure at room temperature, so inhalation exposures are not expected unless the

- 464 material is heated or misted.
- 465

Chronic exposure: Ethylene glycol may cause kidney failure. Repeated excessive exposure to ethylene 466 glycol may cause irritation of the upper respiratory tract. In humans, effects have been reported on the 467 central nervous system, including nystagmus (involuntary, rapid, rhythmic movement of the eyeball). 468 469 470 Evaluation Question #12: Is there a wholly natural product that could be substituted for the petitioned 471 substance? (From 7 U.S.C. § 6517 (c) (1) (A) (ii).) 472 473 There are two solvents on the Organic Materials Review Institute's Generic Materials List (2007) that 474 possibly could be used in the place of ethylene glycol. Ethyl alcohol and isopropyl alcohol are listed on the 475 Organic Material Review Institute's Generic Materials List (2007) that may be substituted for ethylene 476 glycol when used as an inert ingredient. Both alcohols are permitted as inert ingredients for use in non-477 food use pesticide products by the U.S. Environmental Protection Agency (40 CFR 180.920), and can be found on pages 42 and 44 of the 72 page list of inert ingredients last updated by EPA on January 27, 2009. 478 479 480 If ethylene glycol is used in fungicide formulations, there are natural fungicides available for use by both 481 homeowners and professionals to combat plant diseases (Beckerman, 2008). The active ingredients in these 482 compounds include sulfur, lime-sulfur, copper, horticultural oil, neem oil, and bicarbonates. 483 484 Evaluation Question #13: Are there other already allowed substances that could be substituted for the petitioned substance? (From 7 U.S.C. § 6517 (m) (6).) 485 486 487 Ethylene glycol is a solvent that is used to disperse active compounds to control plant pests and diseases and is defined by the U.S. Environmental Protection Agency as an inert ingredient in non-food use 488 pesticide products. It could also used as a solvent in herbicides. As alternatives, organic crop producers 489 490 could use synthetic substances that are already allowed in organic crop production to control plant pests 491 listed in 7 CFR 205.601. They include: ammonium carbonate; boric acid; copper sulfate; elemental sulfur; 492 lime sulfur; oils - horticultural - narrow range oils as dormant, suffocating, and summer oils; insecticidal 493 soaps; sticky traps/barriers; and sucrose octanoate esters. Also, these synthetic substances could possibly 494 be used with phermones to control insects and pests. Some of these substances have conditions or 495 restriction for use and depending on the crop of interest and the pest/insect of concern, some decision 496 would have to be made about which one may be the most appropriate for use. 497 498 In the case of weed control, organic crop producers could use soap-based herbicides and mulches as 499 prescribed in 7 CFR 205.601. Again, the crop of interest and the weed of concern would affect which 500 method of control would be most applicable. 501 502 For plant diseases, the following synthetic substances can be used: coppers – fixed – copper hydroxide; 503 copper oxide, copper oxy-chloride; copper products exempt from a U.S. Environmental Protection Agency 504 tolerance; copper sulfate; hydrated lime; hydrogen peroxide; lime sulfur; oils - horticultural - narrow range 505 oils - dormant, suffocating, and summer oils; peracetic acid; potassium bicarbonate; elemental sulfur; 506 streptomycin; and tetracycline. The synthetic copper compounds allowed for use in organic crop 507 production must be used in such a manner as to minimize the copper accumulation in soils. Other allowed 508 synthetic substances such as peracetic acid, streptomycin (used in apples and pears only); and tetracycline 509 are for fire blight control only. Therefore, depending on the infected crop and the plant disease of concern, these allowed substances may or may not be of benefit and some decision would be needed as to which 510 one is the most appropriate for use. In all cases (pest/insect control; plant disease control; and weed 511

control), the conditions for using materials on the National List of Synthetic Substances must bedocumented in the organic farming system plan.

515

515Evaluation Question #14: Are there alternative practices that would make the use of the petitioned516substance unnecessary? (From 7 U.S.C. § 6517 (m) (6).)

517

As found in 7 CFR 205.205, organic crop producers must implement a crop rotation including but not

519 limited to sod, cover crops, green manure crops, and catch crops that provides for pest management in

520 annual and perennial crops. In addition, cultural practices that remove habitat for pest organisms and the

521 selection of plant species and varieties that are resistant to prevalent pests are important alternative 522 practices. Pest infestations may also be controlled by the augmentation or introduction of predators and parasites of the pest, development of habitat for natural enemies of the pests, and the use of non-synthetic 523 524 controls such as lures, traps, and repellants. When these practices prove insufficient to prevent or control 525 pests, a biological or botanical substance or a substance on the National List of Synthetic Substances 526 allowed for use in organic crop production (7 CFR 205.601) may be applied to prevent, suppress, or control 527 pests. Also, these substances could possibly be used in conjunction with phermones to control insects and 528 pests (see information in the response to Question 13). 529

530 In the case of weeds, sanitation measures to remove weed seeds and cultural practices that enhance crop 531 health, including the selection of plant species and varieties with regard to suitability to site-specific 532 conditions and resistance to prevalent weeds. Weeds may also be controlled through: 1) mulching with 533 fully biodegradable materials; 2) mowing; 3) livestock grazing; 4) hand weeding and mechanical 534 cultivation; 5) flame, heat, or electrical means; or 6) plastic or other synthetic mulches provided they are 535 removed from the field at the end of the growing or harvest season. When these practices prove 536 insufficient to prevent or control weeds, soap-based herbicides or mulches on the National List of Synthetic 537 Substances allowed for use in organic crop production (7 CFR 205.601) may be applied to prevent,

suppress, or control weeds (see information in the response to Question 13).

539

540 In the case of plant diseases, sanitation measures to remove disease vectors and cultural practices that

enhance crop health, including the selection of plant species and varieties with regard to suitability to site-

542 specific conditions and resistance to prevalent diseases. Plant diseases may also be controlled through 543 management practices which suppress the spread of disease organisms and the application of non-

544 synthetic biological, botanical, or mineral inputs. When these practices prove insufficient to prevent or

545 control plant diseases, a substance on the National List of Synthetic Substances allowed for use in organic

crop production (7 CFR 205.601) may be applied to prevent, suppress, or control plant diseases (see
 information in the response to Question 13).

548

549 <u>References</u>

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