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Dow Propylene Glycol Non-Supported Applications

Dow is committed to product stewardship for its products, including assessing the safety of products in their intended applications.

The following Table 1 identifies the applications that are generally **NOT supported** ("General **Non-Supported Applications**") by Dow for any Propylene Glycol ("**PG**") product:

Products	General Non-Supported Applications
ALL PG Products	Generation of artificial smoke/theatrical
	fogs/artificial snow
	Production of tobacco
	Manufacture of tobacco products, electronic
	cigarettes and accessories, vaping devices and
	accessories, or marijuana products
	Use as an active in pesticides ¹
	Use as heat transfer fluids without inhibitors,
	including as an ingredient in fluids for
	warming or cooling foods or beverages or for
	heating an enclosed space where personnel
	exposure is possible ²
	Manufacture of munitions or chemical
	weapons
	Ingredient in cat food

Table 1

¹ Dow has not registered any PG product under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) for use as an active ingredient in pesticide formulas.

² Contact the Dow Thermal Fluids Business for properly inhibited PG-based fluids for heat transfer applications.

Dow will NOT provide samples of or knowingly sell any PG product for use in any General Non-Supported Application, unless otherwise agreed to in writing by Dow.

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The following Table 2 identifies the applications that are **NOT supported** ("**Technical or Industrial Grade Non-Supported Applications**") by Dow for any technical or industrial grade PG product:

Technical or Industrial Grade Products	Technical or Industrial Grade Non- Supported Applications
 All Technical and Industrial PG grades, including, but not limited to: PG Industrial Grade (PGI) PG Technical Grade (PG TG) Dipropylene Glycol Regular Grade (DPG) Tripropylene Glycol Regular Grade (TPG) Tripropylene Glycol Acrylate Grade (TPG Ac) PG-Highers 	Any sensitive applications, including, but not limited to, pharmaceutical, direct and indirect food contact, cosmetics, personal care, animal feed and pet food, and children's toys.
	All applications listed in Table 1 as General Non-Supported Applications

Dow will NOT provide samples of or knowingly sell any technical or industrial grade PG product for use in any Technical or Industrial Grade Non-Supported Application, unless otherwise agreed to in writing by Dow.

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As additional information related to Table 1 and Table 2 the following Table 3 identifies certain sensitive applications that are **supported** ("**Specialty Grade Supported Applications**") by Dow for specialty grade PG products only:

Table 3

Specialty Grade Products ^{3,4}	Specialty Grade Supported Applications
PuraGuard TM Propylene Glycol USP/EP	Pharmaceutical excipients ⁵ , direct and indirect
Propylene Glycol USP/EP (PG USP/EP)	food contact, beverage, cosmetics, personal
	care applications and children's toys, animal
	feed and pet food (except cat food) ⁶
Dipropylene Glycol LO+ Grade (DPG LO+)	Indirect food contact, cosmetics/personal care
	and children's toys
Propylene Glycol Animal Feed (PG AF)	Animal feed and pet food (except cat food) ^{6,7}

³Re-packaging any specialty grade PG product for re-sale requires prior written approval by Dow.

⁴ Specialty grade PG product names may vary by region.

⁵ Dow does not test any PG USP/EP product for suitability in human parenteral/injection applications (i.e., applications intended for humans where the drug formulation is administered not through the gastrointestinal tract, but is typically administered as an injection or infusion) and, therefore, does not support sales into these applications, unless otherwise agreed to in writing by Dow. Dow does not apply Active Pharmaceutical Ingredient ("API") Good Manufacturing Practice (GMP) and, therefore, does not support the use of any PG USP/EP product as an API, unless otherwise agreed to in writing by Dow. ⁶ Where PG AF is not available, PG USP/EP is the PG product supported for animal feed and pet food (except cat food).

⁷ Please consult the local regulatory requirements for animal feed use as some countries require a special license/permit.

In the event that a customer is using a PG product that is contrary to the information provided above, Dow reserves the right to exit product sales to that customer.

If you have any questions regarding the content of this document, or to discuss a specific PG application, please contact your Dow representative or contact us via our web site at https://www.dow.com/en-us/support.html.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product. Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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