Global Chemical Inventory Compliance

This product complies with, or is listed on several Global Inventories as detailed in the following table. Y: on inventory (or not required); N: checked and one or more components are NOT on the inventory; BLANK: not assessed.

<table>
<thead>
<tr>
<th>Country</th>
<th>Inventory</th>
<th>Y/N</th>
<th>Country</th>
<th>Inventory</th>
<th>Y/N</th>
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<td>EINECS</td>
<td>Y</td>
<td>Australia</td>
<td>AICS</td>
<td>Y</td>
</tr>
<tr>
<td>Europe</td>
<td>ELINCS</td>
<td>-</td>
<td>China</td>
<td>IECS</td>
<td>Y</td>
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<tr>
<td>Canada</td>
<td>DSL</td>
<td>Y</td>
<td>Japan</td>
<td>ENCS</td>
<td>Y</td>
</tr>
<tr>
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<td>-</td>
<td>Korea</td>
<td>KECI</td>
<td>Y</td>
</tr>
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<td>TSCA</td>
<td>Y</td>
<td>New Zealand</td>
<td>NZIoC</td>
<td>Y</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Philippines</td>
<td>PICCS</td>
<td>Y</td>
</tr>
</tbody>
</table>

EU 10/2011 Food Contact

Triethylene Glycol is listed in Annex I (Union List of Monomers, Other starting substances and Additives which may be used in the manufacture of plastic materials and articles for food contact) of the European Commission Regulation No. 10/2011 (the former European Plastics Directive 2002/72/EC, repealed as of May 1, 2011), as noted below:

Triethylene Glycol (CAS Reg. # 112-27-6)  PM/Ref # 25510 / 94320, no known restrictions

The applicable regulation should be consulted for additional details regarding finished articles. Please note that it is the responsibility of both the manufacturers of food contact materials and articles, as well as the industrial food packers, to make sure that these products, in their actual use, are in compliance with any imposed requirements. In addition, Dow does not support the use of its ethylene glycol products in any application where the product will be purposely used as a non-reacted component in a formulation for manufacturing containers or packaging.

Animal Derived Components

This product is made from raw materials that have no animal origins. There are no animal derived products used in the production or in the process of this product. None of the raw materials are purchased or obtained from any of the countries on the Bovine Spongiform Encephalopathy (BSE)/Transmissible Spongiform Encephalopathy (TSE) list. Therefore, we can state that from our best data, BSE/TSE should not be a concern.

Food Allergens

This product has been evaluated for the source of the raw materials used in its production. There are no raw materials, including additives, used that have their origin in peanuts, soybeans, milk, eggs, fish, shellfish, tree nuts and/or wheat or gluten. Based on this examination of the ingredients and their sources, this product is free of the specified known allergy stimulating food substances.
**Materials from Genetically Modified Organisms**

This product is synthetic in origin. None of the raw materials used in the production are of plant or animal origin. Therefore, this product is not produced using Genetically Modified Organisms (GMO).

**Kosher**

These products are not Kosher or Halal certified. The specifications have been reviewed for ingredient contents and sources. There are no known ingredients that contain animal, animal fat, grain, grapes, or fermentation sources. The raw materials are oxygen and organic chemicals derived from petroleum. The Dow Chemical Company does not support the use of Triethylene Glycol or Tetraethylene Glycol in any food related applications as non-reacted components in the final product.

**REACH**


For information on the components of our products and their concentrations, please refer to the Material Safety Data Sheets (SDSs) and the Sales Specifications. Any hazardous constituent above 1% (by weight) and carcinogens above 0.1% will appear in the ingredients section of the MSDSs for these products. In addition, consult the Hazardous Decomposition Products section of the MSDSs and the Sales Specifications for further information. Dow does not routinely analyze for additional materials that are not listed in the SDSs or Sales Specifications. Your inquiry addressed EU Directive 2011/65/EU, the recast for EU Directive 2002/95/EC, on the restriction on the use of certain hazardous substances in electric and electronic equipment (RoHS). This directive contains restrictions on the following materials in electric and electronic equipment: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE). None of these materials are intentionally added to this product.

This statement is intended to provide information on our product so that you may assess the consequences of these directives on the electric and electronic (E&E) articles you manufacture and place on the EU market, or materials you supply to the affected industry.

EU Directive 2012/19/EU on WEEE: Selective treatment of the waste (Article 8.5 and Annex VII): Article 8.5 requires that the waste management schemes (to be) set up by the producers, individually or collectively, ensure that the waste will be selectively treated for materials and components of the E&E waste in line with the requirements of Annex VII.

None of the following substances listed in Annex VII are intentionally added or used in the manufacture of this product:

- Asbestos
- Brominated flame retardants
- Refractory ceramic fibers
- Chlorofluorocarbons (CFC)
- Hydrochlorofluorocarbons (HCFC)
- Hydrofluorocarbons (HFC)
- Hydrocarbons (HC)
- Mercury
- Ozone depleting gases
- Polychlorinated biphenyls (PCB)
- Polychlorinated terphenyls (PCT)
- Radioactive substances

**Heavy Metals, EU 94/62/EC and Coalition of Northeastern Governors (CONEG)**

This product conforms to the Coalition of Northeastern Governors (CONEG) and the European Directive 94/62/EC, as amended, on Packaging and Packaging Waste, Article 11. Any incidental levels of lead, cadmium, hexavalent chromium, and mercury do not exceed 100 ppm total.
RDS - Triethylene Glycol

**ASTM F963 - Standard Consumer Safety for Toy Safety**

European Standard EN 71/3 concerns the "Safety of Toys", and specifies requirements for the migration of certain elements, i.e. antimony (Sb), arsenic (As), barium (Ba), cadmium (Cd), chromium (Cr), lead (Pb), mercury (Hg) and selenium (Se) from toy materials and not from paints and varnishes used for toys.


We do not routinely analyze our products for these elements, but all the data we have regarding heavy metal content in our products are far below these limits and are therefore not likely to contribute to concentrations in the final toy material that is under consideration in this Standard EN-71/3. In addition to this, these products are not intentionally manufactured with any chemical substances known to contain heavy metal as listed above.

**Canadian Environmental Protection Act Challenge Substances**

This product is not intentionally manufactured or formulated with the Batch Lists of Canadian Environmental Protection Agency (CEPA) Challenge Substances released as of the effective date of this document. However, we do not analyze for these specific substances.

(http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list-eng.php)

**Bisphenol A**

This product is not manufactured or formulated with Bisphenol A (CAS# 80-05-7).

**Phthalate Esters**

This product is not intentionally manufactured or formulated with the following phthalate esters; however, we do not analyze for these specific substances or compounds.

- Butyl benzyl phthalate (BBP) CAS 000085-68-7
- Diethyl hexyl phthalate (DEHP) CAS 117-81-7
- Diethyl phthalate CAS 000084-66-2
- Diisobutyl phthalate (DIBP) CAS 000084-69-5
- Di-iso-decyl phthalate (DIDP) CAS 26271-40-0
- Di-isononyl phthalate (DINP) CAS 28553-12-0
- Dimethyl phthalate CAS 131-11-3
- Di-n-butyl phthalate (DBP) CAS 000084-74-2
- Di-n-hexyl phthalate (DnHP) CAS 000084-75-3
- Di-n-octyl phthalate (DNOP) CAS 117-84-0.
**Fluorotelomers, Perfluorooctanoic acid (PFOA) and Derivatives**

This product is not intentionally manufactured or formulated with Fluorotelomers, Perfluorooctanoic acid (PFOA), or Perfluorooctane sulfonate (PFOS); however, we do not analyze for these specific substances or compounds.

**Residual Volatile Organic Compounds (VOC)**

With regard to Volatile Organic Compounds (VOC) content, one Environmental Protection Agency (EPA) definition of a VOC is any compound of carbon excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate and excluding compounds which have negligible photochemical reactivity such as: ethane, methane, and also methylene chloride, perchloroethylene and acetone, which are Dow products. For other compounds, see 40 Code of Federal Regulations Section 51.100(s) and check for any recent Federal Register notices possibly exempting other negligibly reactive VOCs. Since state or local governments and some specific EPA regulations may be more restrictive than the definition above, please check these sources also.

Under this broad definition, this product is not a VOC.

The EPA has developed, and states may require, the use of EPA Method 24 to determine the percent VOC content of paints and coatings. This method was not developed for the analysis of individual ingredients. See the appropriate federal or state regulations for any other methods or procedures specified for determining VOC content.

The EPA's National VOC Emission Standards for Consumer Products Rule, as well as regulations in several states allow for the exemption of solvents from VOC regulation with a vapor pressure less than 0.1 mm Hg at 20 degrees Celsius. This exemption applies to VOC content limitations for consumer products. Please check your local regulations, and/or the Federal Rule to determine if your end use application is covered by this definition of a VOC. The vapor pressure of this product is listed on the MSDS.

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**

This product contains a chemical known to the State of California to cause cancer. For more information, see the Safety Data Sheet for this product.

**WGK Wassergefährdungsklasse**

This product is classified as WGK1 according to the VwVwS (Verwaltungsvorschrift wassergefährdende Stoffe) from 17th of Mai 1999, annex 4.
Residual Solvents

The US Pharmacopoeia specifies limits for Residual Solvents in final drug substances, excipients, and drug products. Residual Solvents are not included in the specifications for this product. Please note the following data represent typical values only. They do not constitute part of the specifications. These typical values are based on the analyses from the last two years.

1. Class 1 Solvents
   • None of the solvents are likely to be present

2. Class 2 Solvents
   • Ethylene oxide
     IR Grade < 50%
     HP Grade < 0.01%

Other Class 2 Solvents not listed here are not intentionally added and are not expected to be present in this product.

3. Class 3 Solvents
   • Acetic acid < 50 ppm

Other Class 3 Solvents not listed here are not intentionally added and are not expected to be present in this product.

4. Class 4 Solvents
   • None of the solvents are likely to be present
Product Stewardship

The Dow Chemical Company and its subsidiaries (“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 the 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.

Customer Notice

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 personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

Medical Applications Policy

NOTICE REGARDING MEDICAL APPLICATION RESTRICTIONS: Dow will not knowingly sell or sample any product or service (“Product”) into any commercial or developmental application that is intended for:

a. long-term or permanent contact with internal bodily fluids or tissues. “Long-term” is contact which exceeds 72 continuous hours;
b. use in cardiac prosthetic devices regardless of the length of time involved (“cardiac prosthetic devices” include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass-assisted devices);
c. use as a critical component in medical devices that support or sustain human life; or

d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

Dow requests that customers considering use of Dow products in medical applications notify Dow so that appropriate assessments may be conducted. Dow does not endorse or claim suitability of its products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Dow product is safe, lawful, and technically suitable for the intended use. **DOW MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY DOW PRODUCT FOR USE IN MEDICAL APPLICATIONS.**

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