Isobutyl Acetate

Chemical Inventory Compliance

This product complies with, or is listed on several Global Inventories as detailed in the following table.

<table>
<thead>
<tr>
<th>Country</th>
<th>Inventory</th>
<th>Y/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>EINECS</td>
<td>Y</td>
</tr>
<tr>
<td>Europe</td>
<td>ELINCS</td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>DSL</td>
<td>Y</td>
</tr>
<tr>
<td>Canada</td>
<td>NDSL</td>
<td></td>
</tr>
<tr>
<td>United States</td>
<td>TSCA</td>
<td>Y</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Country</th>
<th>Inventory</th>
<th>Y/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>AICS</td>
<td>Y</td>
</tr>
<tr>
<td>China</td>
<td>IECS</td>
<td>Y</td>
</tr>
<tr>
<td>Japan</td>
<td>ENCS</td>
<td>Y</td>
</tr>
<tr>
<td>Korea</td>
<td>KECI</td>
<td>Y</td>
</tr>
<tr>
<td>New Zealand</td>
<td>NZIoC</td>
<td>Y</td>
</tr>
<tr>
<td>Philippines</td>
<td>PICCS</td>
<td>Y</td>
</tr>
</tbody>
</table>

Animal Derived Components

All raw materials used in the production of this product are manufactured from petrochemical raw materials. None of the raw materials are of animal or plant origin. This product is produced in a closed process where no additives are used. There are no Bovine Spongiform Encephalopathy (BSE) / Transmissible Spongiform Encephalopathy (TSE) concerns with the use of this product. The information in the above section applies only to product(s) purchased directly from Dow or in Dow factory-packed containers.

Materials from Genetically Modified Organisms

This product is synthetic in origin. None of the raw materials used in the production are from genetically modified origins. Therefore, this product is not produced using Genetically Modified Organisms (GMO).

Allergens relating to Cosmetic Products

The EU Cosmetics Regulation 1223/2009 lists allergenic substances among other substances in Annex III - List of Substances which Cosmetic Products must not contain except subject to the restrictions laid down e.g. N-substituted derivatives of p-Phenylenediamine and their salts. These require printing presence on the label such as “Hair colourants can cause severe allergic reactions”. This product does not contain prohibited or restricted substances as referred to in Article 14 to the Regulation (EC) No 1223/2009 on cosmetic products (i.e. prohibited substances, restricted substances, colorants, preservatives or UV-filters).
Food Allergens

Food allergens are listed in Annex II of Regulation (EU) No 1169/2011. This product has been evaluated for the source of the raw materials used in its production. Specifically, we have not analysed our product for allergens listed in Regulation (EU) No 1169/2011 Annex II and raw materials, including additives, used that have their origin in peanuts, soybeans, milk, eggs, fish, shellfish, tree nuts and/or wheat or gluten. Nevertheless we have no reason to expect that any of these compounds would be present in our product.

Trace Analysis

For information on the components of our product and their concentration, please refer to the Safety Data Sheet (SDS) and Sales Specification. Any hazardous constituents above regulatory disclosure cut-off limits determined according to their regional and/or specific GHS classification(s) will appear in the ingredients section of the SDS for this product. In addition, consult the Hazardous Decomposition Products section of the SDS and the Sales Specification for further information.

Dow does not routinely analyze for additional materials that are not listed in the SDS or Sales Specification.

US FDA Food Contact Status

The use of this product in food-related applications is not supported at this time.

Food Contact (Regulation (EU) No 10/2011)

According to the Commission Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food, solvents are considered Polymer Production Aids (PPA’s). They may be present but are neither intended to be present in the final material or article nor have a physical or chemical effect in the final material or article. Unless used as a monomer or additive, solvents don’t require positive listing in Annex I of the Regulation. The safe use in the finished food contact article needs to be demonstrated through a risk assessment according to Art. 19 of the Regulation. Contact your local sales representative to obtain a detailed food contact compliance statement.

Kosher Certification Status

This product is not Kosher certified but contains no ingredients that would be of concern if certification was desired.

Halal Certification Status

This product is not Halal certified.
REACH
For information on Dow and Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), visit our website, www.reach.dow.com and consult the Safety Data Sheet (SDS) of the product. In addition please also visit http://echa.europa.eu/chem_data_en.asp. For specific questions please contact the Customer Information Group on dowcig@dow.com.

Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS)
The materials referenced in the Directive 2011/65/EU and amendments, Annex II; lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP), and diisobutyl phthalate (DIBP) are not intentionally added to or used in the production of our product(s) and are not expected to be present at or above indicated concentration values.

Waste Electrical and Electronic Equipment (WEEE)
EU Directive 2011/65/EU on WEEE: Selective treatment of the waste (Article 6.1 and Annex II). None of the substances listed in Annex II are intentionally added or used in the formulation of this product.

Critical Substances and Impurities
For information on the components of our products and their concentration, please refer to the Safety Data Sheet (SDS) and the Sales Specification. Dow does not routinely analyze for additional materials that are not listed in the SDS or Sales Specification. Phthalates are not intentionally added to this product. Therefore, these materials are not expected to be present in this product.

Heavy Metals in packaging (Directive 94/62/EC)
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.
Coalition of Northeastern Governors (CONEG)

This product does not contain cadmium, lead, or mercury which have been intentionally introduced as an element during manufacture or distribution; it is not expected to contain hexavalent chromium.

This product does not contain cadmium, lead, or mercury which have been intentionally introduced as an element during manufacture or distribution; it is not expected to contain hexavalent chromium.

Bisphenol A

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

Hazardous Air Pollutant

Please refer to the ingredients section of the Safety Data Sheet (SDS) for a listing of the hazardous air pollutants that are contained in this product, if any. In addition, consult the Hazardous Decomposition Products section of the SDS and the Sales Specification for further information.

The following Environmental Protection Agency (EPA) web site is also available for your reference of the most current HAPs listings, including recent modifications to the listings: http://www.epa.gov/ttn/atw/188polls.html.

This product is not listed as a Hazardous Air Pollutants (HAPs).

Safety of Toys (ASTM F963)

European Norm EN 71/3 relates to the safety of toys and their metal elements content. Table 1 in Part 3: "Migration of Certain Elements" provides a list of the limiting values for the migration of these elements from products used in the manufacture of the toys.

We do not routinely analyze our products for these elements, but the data we have regarding the metal content in our product is 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.

Resource Conservation and Recovery Act (RCRA)

A product, when disposed of, may be RCRA hazardous because it appears on any of three "lists" (40 CFR 261.31, 261.32, 261.33) or was mixed with such a waste. A product, when disposed of, may also be RCRA hazardous if it exhibits any of four "characteristics" (40 CFR 261.21, 261.22, 261.23, 261.24). Note there are many complex exemptions and exclusions which may control the RCRA status of any given waste.

Please be advised that Dow does not routinely characterize its Chemicals & Performance Products to determine if, when they are disposed of, the waste products might be considered a RCRA hazardous waste. In addition, since we cannot control or evaluate the composition of the waste you generate, we suggest that you independently characterize your waste as is required by law. Compliance with applicable federal, state, and local laws and regulations regarding the management, use, handling, treatment, storage, disposal and transportation of waste chemicals is solely the waste generator's responsibility.
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/index_e.html)

Natural Rubber or Latex

This product is not intentionally manufactured or formulated with natural rubber or natural latex; however, we do not analyze for these specific substances or compounds.

Phthalate Esters

The above mentioned product is not intentionally manufactured or formulated with phthalate esters; however, we do not analyze for these specific substances or compounds.

Halogenated Flame Retardants

This product is not intentionally manufactured or formulated with halogenated or phosphorous based flame retardants; however, we do not analyze for these specific substances or compounds.

Perfluorinated substances

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

Volatile Organic Compounds (VOC)

With regard to Volatile Organic Compounds (VOC) content, the Environmental Protection Agency (EPA) definition of a VOC in non-consumer applications 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. Note, the water portion of a product, if present, is not considered a VOC. 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 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 SDS.

**Superfund Amendments & Reauthorization Act**

Please refer to the Safety Data Sheet (SDS) for Superfund Amendments and Reauthorization Act (SARA) information.

Any chemical listed on the Emergency Planning and Community Right-To-Know Act (EPCRA) Section 313 (SARA 313) list of reportable chemicals above 1% (by weight) and any SARA 313 chemical which is a listed carcinogen above 0.1% will appear in the ingredients section of the SDS for this product. Any chemical listed as a member of the persistent, bioaccumulative and toxic (PBT) chemicals list will be included regardless of the weight percent in the product. In addition, consult the Hazardous Decomposition Products section of the SDS and the Sales Specification for further information.

The following Environmental Protection Agency (EPA) web site is also available for your reference. It provides the most current SARA 313 chemical listings, including recent modifications to the listings:

http://www.epa.gov/triinter/chemical/index.htm

**Clean Air Act**

Dow will not have to label this product as "manufactured with" or "containing" Class I or Class II substances, which are listed under section 604 of the US Clean Air Act Amendment 1990, 40 CFR Part 82, VOL 58, No 236.

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

Please refer to the Safety Data Sheet (SDS) regarding the California Proposition 65 (PROP 65) information for this product.
Substances hazardous to water

This product conforms to the Coalition of Northeastern Governors (CONEG); it is not manufactured or formulated with lead, cadmium, hexavalent chromium, or mercury. The sum of any incidental concentrations do not exceed 100 ppm total.
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.

Disclaimer

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer’s use and for ensuring that the Customer’s workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

For additional information, not covered by the content of this document, contact us via our web site http://www.dow.com/products_services/.