VERSENE™ NA Chelating Agent

Global Inventories

<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>Switzerland</td>
<td></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>
<tr>
<td>Mexico</td>
<td>INSQ</td>
<td>-</td>
</tr>
<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>KECl</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>
<tr>
<td>Taiwan</td>
<td>TCSCA</td>
<td>-</td>
</tr>
</tbody>
</table>

This product is not subject to any requirements under any order or rule under Toxic Substances Control Act (TSCA) Sections 4, 5, 6, 7, or 8(d) or 12(b).

General Statements

Product Composition

For information on the components of our product(s) and their concentration, please refer to the Material Safety Data Sheet (MSDS) and the Sales Specification. Any hazardous constituent above 1% (by weight) and carcinogens, mutagens, and reproductive toxins above 0.1% will appear in the ingredients section of the MSDS for this product. In addition, consult the Hazardous Decomposition Products section of the MSDS and the Sales Specification for further information.

Dow does not routinely analyze for additional materials that are not listed in the MSDS or Sales Specification. Specifically, we have not analyzed our chelating agents for the materials listed below, among others. These materials are not intentionally added, nor used in the manufacturing process, and therefore are not expected to be present in VERSENE™, VERSENEX™, and VERSENOL™ chelating agents.

Additives
- Aflatoxins
- Alkylphenol based products
- Aluminum and aluminum compounds
- Antimony
- Aromatic amines
- Arsenic and arsenic compounds
- Asbestos (all types)
- Azo colorants and dyes
- Bis-phenol A
- Butylated hydroxyanisole
- Butylated hydroxytoluene
- Carbon tetrachloride
- Carcinogenic substances classified as R45-R46-R49
- Cadmium and cadmium compounds, applied in plastics and in metals and alloys
- Cobalt
Chlorofluorocarbons (CFCs)
Chlorinated hydrocarbons (CHCs)
Chlorinated paraffins
Chromium VI
Cyanuric acid
1,4-Dioxane
Dichloromethane (CH2Cl2)
Dibutyl tin compounds
DBBT (monoethyl dibromodiphenyl methane)
Dimethyl fumarate
Endocrine disruptors
Halons
Hexavalent Chromium (Cr 6+) and compounds
Hydrobromofluorocarbons (HBFCs)
Hydrogenated chlorofluorocarbons (HCFCs)
Lead and lead-compounds
Methyl bromide
Mercury and mercury compounds
Melamine
Monobutyl tin compounds
Monomethyl dichlorobiphenyl methane
Nanomaterials / Nanotechnology
Nickel and nickel compounds
NP (Nonylphenol) and NPE (Nonylphenol Ethoxylate)
Nonylphenol and ethoxylated nonylphenol
Organostannic compounds
Palm oil
Parabens
Paraffins
Pentachlorophenol (PCP)
Perchloroethylene (C2Cl4)
Pesticides
Petrochemicals
Phthalates
Poly brominated biphenyl (PBBs)
Poly brominated biphenyl ethers (PBBEs)
Poly chlorinated biphenyls (PCBs)
Poly chlorinated terphenyls (PCTs)
Preservatives
Quaternium 15
Salicylates
Short-chain chlorinated paraffins
Sulfates
Synthetic fragrances
TBBA (tetrabromobisphenol-A)
Tert-butylhydroquinone
Tetrachlorodiphenyl methane
Tetrachlorophenol
Tributyl tin compounds
1,1,1 Trichloroethane
Trichloroethylene (C2HCl3)
Trichlorophenol
Tris-(1-aziridinyl) phosphinoxide
Tris-(2,3-dibromo-propyl) phosphate
Whale oil and derivatives
Zinc

**Animal Derived Components (BSE/TSE)**
This product is not manufactured using materials that are derived from animal sources. Therefore, we can state that Bovine Spongiform Encephalopathy (BSE)/Transmissible Spongiform Encephalopathy (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 origin in corn or corn derivatives, eggs, fish, gluten, grapefruits, milk, mustard, peaches, peanuts, pork, royal jelly, sesame seeds, shellfish, soybeans, sulfur dioxide, sunflowers, tomatoes, tree nuts, wheat or buckwheat.

In addition, this product does not contain any species of grains including barley, wheat, k moot, oats, rye, corn, malt, tricale, other grains, and/or derivatives of these products. This product will be free of gluten, unrefined oil, sulfites, MSG, hydrolyzed vegetable or plant protein (HVP/HPP), colorings, spices, caffeine, animal and animal by-products, and yeast.

**Materials from Genetically Modified Organisms (GMO)**
This product is derived from petroleum and inorganic source materials. None of the ingredients are genetically modified.
Kosher Status
This product is kosher certified. Please use the following link to our Dow Answer Center, where you can find the appropriate Kosher certificate: https://dow-answer.custhelp.com/app/answers/detail/a_id/2185/kw/kosher.

Bisphenol A Content
This product, in the form as supplied by Dow, is not manufactured or formulated with Bisphenol A (CAS# 80-05-7).

Natural Rubber or Latex Content
The specification for this product has been reviewed for the origin of raw materials and specific ingredients. There is no "natural rubber" latex used in the manufacture or in the process for producing this product. The raw materials are derived from petroleum and its by-products and synthetic inorganic materials from brine. This is a synthetically produced product.

Phthalate Esters Content
For information on the components of our products and their concentration, please refer to the Material Safety Data Sheet (MSDS) and the Sales Specification.

Dow does not routinely analyze for additional materials that are not listed in the MSDS or Sales Specification. Phthalates are not intentionally added to Dow Chelating Agents. Therefore, these materials are not expected to be present in VERSENE™, VERSENEX™, and VERSENOL™ Chelating Agents.

Fluorotelomers, Perfluorooctanoic acid (PFOA) and Derivatives Content
The purpose of the Directive is to limit human and environmental exposure to PFOS, a bio-accumulative toxic substance present in consumer goods.

Within Directive 2006/122/EC, the European Parliament states that Perfluorooctanoic acid (PFOA) and its salts are suspected to have a similar risk profile to that of PFOS and that consequently the Commission will keep under review the ongoing risk assessment activities, as well as the availability of safer alternatives, with the aim of defining what kind of risk reduction measures, including restrictions on marketing and use, if appropriate, should be applied within the European Union.

We can confirm that the ingredients and the sources of these ingredients for this product have been researched for origin. This product is not manufactured using Perfluorooctane Sulfonates (PFOS) or Perfluorooctanoic acid (PFOA); therefore, neither PFOS nor PFOA is expected to be present in this material.

Halal
VERSENE™, VERSENEX™, and VERSENOL™ Chelating Agents are not certified as halal, but will comply with the halal dietary laws.
Carcinogens, Mutagens and Reproductive Toxins

For information on the components of our product and their concentrations, please refer to the Safety Data Sheet (SDS) and the Sales Specification. In the U.S. and Canada, reproductive toxins, mutagens, carcinogens, and respiratory tract sensitizers present at > 0.1% (by weight) will appear in the ingredients section of the SDS for any given product.

In the EU, the EU Safety Data Sheet Directive requires the following:

- Any component present at > 0.1% (by weight) and classified as a CMR 1a or 1b to ANNEX VI to Directive 1272/2008/EC (CLP) will appear in the ingredients section of the SDS.
- Any component present at > 1% and classified as a CMR 2 to ANNEX VI to Directive 1272/2008 EC (CLP) will appear in the ingredients section of the SDS.

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

Statements by Region

North America

Residual Volatile Organic Compounds U.S. (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. 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 does not contain VOCs.

Consumer Product Safety Improvement Act of 2008 (CPSIA)/Toy Safety

Dow does not routinely analyze for additional materials that are not listed in the MSDS or Sales Specification. Specifically, while we have not analyzed for heavy metals or phthalate content, they are not known to be present in this product. In regards to the ASTM F963 Toy Safety and U.S. Consumer Product Safety Improvement Act of 2008, it is the responsibility of the user to determine the appropriate regulatory requirement for their operation and/or final product use.

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

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Residual Solvents

VERSENETM NA Chelating Agent, as Edetate Disodium USP, complies with the requirements for Residual Solvents per the current edition of The United States Pharmacopoeia/National Formulary (USP/NF) and the ICH Residual Solvents Guidelines. The Residual Solvents, listed as Class 1, 2, 3, and 4 in USP General Chapter <467> are not used in the production process and are not intentionally added or known to be present in packed and sealed product from Dow.
Directive 2001/83/EC Medicinal Products

VERSENE™ NA Disodium EDTA Chelating Agent does not currently meet the requirements of Directive 2001/83/EC, as it has not been certified according to the European Pharmacopoeia (EP). However, this product is manufactured under Good Manufacturing Practices (GMP) to meet the requirements for the current United States Pharmacopoeia (USP), Food Chemicals Codex (FCC) and Joint FAO/WHO Expert Committee on Food Additives (JECFA). This product can be certified to the requirements for EP for an additional cost, in which case the product, as manufactured and certified to meet EP requirements, would be compliant with Directive 2001/83/EC.

Hazardous Air Pollutants (HAPs)

This product is not manufactured with, nor does it come into contact with, any of the materials identified as Hazardous Air Pollutants under the United States Environmental Protection Agency 40 CFR 61 and 40 CFR 63, as listed at http://www.epa.gov/ttn/atw/188polls.html.

Europe

REACH Status


Residual Volatile Organic Compounds EU (VOC)

With regard to Volatile Organic Compounds (VOC) content, directive 1999/13/EC states that volatile organic compound (VOC) shall mean any organic compound having at 293.15°K a vapour pressure of 0.01 kPa or more, or having a corresponding volatility under the particular conditions of use.

Since the vapour pressure of VERSENE chelating agents are contributed only by water, these products are considered to be 0% VOC at 293.15°K.

EU Directive 2011/65/EU (RoHS)

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, as amended by EU Directive 2015/863/EU, 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), polybrominated diphenyl ethers (PBDE), bis(2-ethylhexyl) phthalate (DEHP), benzyl butyl phthalate (BBP), dibutyl phthalate (DBP) or diisobutyl phthalate (DIBP). None of these materials are intentionally added to this product.
EU Directive 94/62/EC and Coalition of Northeastern Governors (CONEG) on Heavy Metals

For information on the components of Dow Chelating Agents and their concentration, please refer to the Safety Data Sheet (SDS) and the Sales Specification. Hazardous constituents will be listed in the Composition Section of the SDS for this product if present at levels of 1% or above (by weight), or at any lower levels as required by applicable legislation (including but not limited to carcinogens, mutagens, reproductive toxicants and sensitizers). 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. Specifically:

- Cadmium
- Chromium VI
- Lead
- Mercury

are not intentionally added to this product, nor expected to be present. If any trace levels happen to be present, we believe that the sum total of such trace levels should be below 100 ppm by weight, as per the requirements of European Directive 94/62/EEC and the CONEG legislation.

In addition, please note that the European Directive 94/62/EEC and the USA CONEG legislation apply to the finished article. Therefore, it is the responsibility of the manufacturer of the finished article to verify and comply with the requirements set forth in the above regulations.

VERSENE™ Chelants are not biocides and therefore do not require registration under the Biocidal Products Directive (EU No. 528/2012).

VERSENE™ Chelants are not biocides and therefore do not require registration under the Biocidal Products Directive (EU No. 528/2012).
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/.