



Regulatory Data Sheet

UCARE™ Polymer JR-400

Information provided in this Regulatory Data Sheet (RDS) does not indicate Dow product availability in all countries aligned with the below regulations. Please contact Dow to confirm availability of product in specific countries.

Global Chemical Inventory Compliance

Country	Inventory	Status
Australia	AiIC	All substances contained in this product are listed on the Australian Inventory of Industrial Chemicals, or are not required to be listed.
Canada	DSL	All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.
China	IECSC	All intentional components are listed on the inventory, are exempt, or are supplier certified.
Japan	ENCS	All intentional components are listed on the inventory, are exempt, or are supplier certified.
Korea	KECI	All intentional components are listed on the inventory, are exempt, or are supplier certified.
New Zealand	NZIoC	The hazardous components of this product are listed in the New Zealand Inventory of Chemicals (NZIoC) or the product otherwise complies with the requirements of the Hazardous Substances and New Organisms (HSNO) Act 1996.
Philippines	PICCS	All intentional components are listed on the inventory, are exempt, or are supplier certified.
Switzerland	EINECS	The components of this product are on the EINECS inventory or are exempt from inventory requirements.
Taiwan	TCSI	All intentional components are either listed on the Inventory or exempted by regulations, or certified by vendors of their supply chemicals.
United States of America (USA)	TSCA	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

REACH

REACH requires the registration of substances when they are manufactured or imported into the European Economic Area (EEA) at a volume of one metric ton or more per annum per legal entity. We

hereby confirm that every REACH relevant substance in the composition of the above Dow product(s), made available on the EEA Market by Dow, has been accordingly covered under REACH, either via own registration or supplier coverage for the relevant tonnage band, and is therefore compliant with the REACH regulation (EC) N° 1907/2006 as per the official ECHA list published on the ECHA website <https://echa.europa.eu/information-on-chemicals/registered-substances>. The above statement is only valid for volumes imported into or manufactured within the EEA by Dow and placed on the market within the EEA. For customers based outside the EEA importing Dow products or products containing Dow products into the EEA, please note that these imports are not covered under the EEA Dow Legal Entity(ies) registrations. It is the obligation of the importer to ensure REACH compliance unless an agreement is in place that allows the importing non-EEA company's volumes to be covered under the Dow Only Representative Trustee model, which covers volumes of indirectly imported Dow products under the existing Dow registrations. The possibility of providing a Dow Only Representative Trustee coverage needs to be evaluated for each REACH relevant substance. For information on our products and REACH, visit the Dow REACH page <https://reach.dow.com/en-us>.

REACH Substances of Very High Concern (SVHC)

If any Substances of Very High Concern (SVHC) listed on the ECHA candidate list are above 0.1% they will appear in Section 15 of the European SDS. For information on presence of any Substance of Very High Concern (SVHC) in our product versus the most updated list version as defined by the European Chemical Agency, please contact the Customer information group at: <http://www.dow.com/en-us/contact-us-cig>

Dietary Laws

Halal

This product does not contain ethanol, natural L-cysteine extracted from hair or feathers; animal fats and/or animal extracts; bloods of any origins; blood plasma; pork; and/or other meat by-products. Additionally, none of the components listed above are known by us to be present as impurities or by-products in any of the ingredients used to make this Product. Finally, ethanol is not used as a processing aid nor is it believed to be present as an impurity or by-product in this Product.

Kosher

This product is not Kosher certified.

Environment - Air

Clean Air Act

To the best of our knowledge, with regards to the Clean Air Act, Section 112(b), this product does not contain any Hazardous Air Pollutants (HAPs) at or above 0.1%. To the best of our knowledge, this product does not contain any components that are listed on the Clean Air Act Sec. 602 Class I and II Ozone Depleting Substances List (40 CFR 82).



Environment - Water

Clean Water Act Statement

To the best of our knowledge, this product does not contain any components that are listed on the Clean Water Act Toxic Pollutant List in 40 CFR 401.15.

Hazard Information Reporting (RTK)

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Irradiation

Irradiation

This product does not contain material that has been irradiated nor has it been manufactured at any stage with irradiation.

Metal Regulations

Conflict Minerals (Dodd-Frank Wall Street Reform and Consumer Protection Act)

The Product is not intentionally formulated with tantalum, tin, tungsten or gold, nor are we aware that the Product contains tantalum, tin, tungsten or gold. However, we do not specifically analyze for the presence of these substances; therefore, we cannot guarantee the absence or level of these substances to any specific limit or threshold value.

Coalition of Northeastern Governors (CONEG)

The following substances – cadmium, chromium VI, lead, or mercury, are not intentionally added to this product. Heavy metals are not expected to be present unless at trace levels as unknown impurities from the raw materials. This information is based upon our theoretical composition, data from our raw material manufacturers, and knowledge of our manufacturing process. Please note that we do not test our finished product for the presence of heavy metals. Coalition of Northeastern Governors (CONEG) legislation applies to the finished article.

EU 94/62/EC - Packaging and Packaging Waste

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 referenced in EU Directive 94/62/EC (Cadmium, Hexavalent Chromium, Lead, Mercury), they are not known to be present in this product.



Origin

Animal Derived Components (BSE/TSE)

To the best of our knowledge, this product is not manufactured or formulated with ingredients of animal origin. The manufacturing equipment for the product is not used for the manufacture of products of animal origin or products containing ingredients of animal origin. This product is not stored with products of animal origin or products containing ingredients of animal origin.

Genetically Modified Organisms (GMO)

To the best of our knowledge, there are no raw materials, including additives, that have been derived from genetically modified organisms (GMO).

Palm Oil

Based on process knowledge and based on statements from our vendors, the Product above is not expected to contain palm oil and its derivatives.

Origin

The Product is made from synthetic and plant sources.

Preservative

Preservatives

No preservative is intentionally added to this product.

Volatile Organic Compound

Volatile Organic Compounds (VOC)

For VOC information, please consult your local EHS contact.

General/Global Regulations

Food Allergens

To the best of our knowledge, this product does not contain any of the 26 allergen ingredients as defined in the Cosmetics Products Regulation (EC) 1223/2009. To the best of our knowledge, there are no substances present in the Product that are listed in Annex II of Regulation (EU) 1169/2011 of the European Parliament and of the Council: cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains), crustaceans, eggs, fish, peanuts, soybeans, milk (including lactose), nuts (i.e. Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Caryaillinoiesis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut(Macadamia ternifolia)), celery, mustard, sesame seeds, sulphur dioxide, sulphites, lupin or molluscs and products



thereof. We are unaware of any potential sources for the introduction of any substances of concern from the manufacturing and packaging processes, nor from the packaging components themselves. We do not specifically analyze for the presence of these substances. Therefore, we cannot guarantee the level of these substances to any specific limit or threshold value.

CMR

This product is manufactured using glyoxal (CAS# 107-22-2) as a surface treatment that enables such polymers to be readily soluble in cold aqueous solutions or aqueous fatty emulsions. Glyoxal is classified in the European Union, following the Global Harmonisation Scheme (GHS) of classification, as a category 2 mutagen. Glyoxal has been approved as safe for use in cosmetic products at levels up to 100 ppm (SCCP/0881/05 Decision dated June 21st 2005). Analyses of batches of this product have shown total glyoxal levels of approximately 1000–5000 ppm dependent upon grade. Products were analyzed using the updated 3-methyl-2-benzothiazolinone hydrazone hydrochloride (MBTH) method (Anal. Chem., 33, 93-96 (1961), Anal. Chem., 35, 1541-1542 (1963), and Analyst, 98, 782-791 (1973)) that detects the total amount of glyoxal present. This includes "free" and "bound" glyoxal.

Endocrine Disruptors Statement

To the best of our knowledge, this product does not contain endocrine disruptors.

Micro Specifications

There are no microbiological sales specifications for this product.

Recommendation 2011/696/EU on the definition of nanomaterial

To the best of our current knowledge, we hereby confirm that this product does not meet the definition of nanomaterial as provided in the Commission Recommendation 2011/696/EU.

EU Cosmetics Regulation 1223/2009/EC

This product does not meet the definition of a nanomaterial as listed in Article 2(k) of the EU Cosmetic Regulation. This product would not trigger the notification requirements of Article 16 or the need for any further safety assessment that is required for a cosmetic product due to the presence of nanomaterials.

Belgium

We understand the Belgian Royal Decree of 27 May 2014 concerning the placing on the market of substances produced in nanoparticulate state, to define nanoparticles in accordance with the European Commission Recommendation 2011/696/EU, being however limited to (i) mixtures which are intentionally manufactured to contain nanoparticles where those nanoparticles are not linked or bound within those mixtures, and (ii) substances which are intentionally manufactured as nanoparticles. Moreover, our interpretation is that the Belgium Decree does not apply to (i) biocides, (ii) medicinal products for human or veterinary use, (iii) (products intended to come into contact with) foodstuff, (iv) animal feed or (v) technological aids or other products that may be used for processing ingredients of agricultural origin, and (vi) cosmetic products. To the best of our current knowledge, we hereby confirm that this product does not meet the aforementioned definition.



France

We understand the French Decree 2012-232 related to the annual declaration of nanomaterials in France and accompanying Ministerial Order of August 6, 2012 to define nanoparticles in accordance with the European Commission Recommendation 2011/696/EU, being however limited to (i) mixtures which are intentionally manufactured to contain nanoparticles where those nanoparticles are not linked or bound within those mixtures, and (ii) substances which are intentionally manufactured as nanoparticles. To be best of our current knowledge, we hereby confirm that this product does not meet the aforementioned definition.

Residual Solvents

None of the Class 1 or Class 2 Residual Solvents specified in USP General Chapter <467> effective on 1 JUL 2008 are used in the manufacture of this product. A Class 3 solvent, isopropanol, is used in production of this product.

TSCA 12b

We have reviewed the composition of the Product for the presence of TSCA 12b listed substances. Based on that review, the Product does not contain chemical components subject to TSCA section 12(b) export notification.

Substances and Compounds

The following substances are not expected to be present in this Product. We may not specifically analyze for the presence of these substances in the Product. Therefore, we cannot guarantee the absence or level of these substances to any specific limit or threshold value:

Alkylphenols and Alkylphenol Ethoxylates
Aluminum (Al) or aluminum compounds
Antimony (Sb) or antimony compounds
Aromatic Amines
Arsenic (As) or arsenic compounds
Asbestos
Azo compounds
Barium (Ba) or barium compounds
Beryllium (Be) or beryllium compounds
Bismuth (Bi) or bismuth compounds
Bisphenol A
Boron (B) or boron compounds
Cadmium (Cd) or cadmium compounds
Ceramic fibers
Cerium/Cerium Compounds
Chlorofluorocarbons
Chromium (Cr) or chromium compounds
Cobalt (Co) or cobalt compounds
Copper (Cu) or copper compounds
Dimethyl Fumarate
Fluorotelomer



Formaldehyde
Glycol Ethers classified as Reprotox 1A or 1B
Gold or Gold compounds
Halogenated Flame Retardants
Hydrochlorofluorocarbons (HCFC)
Hydrofluorocarbons (HCF)
Natural Rubber Latex (NRL)
Lead/Lead Compounds
Lithium (Li) or lithium compounds
Magnesium/Magnesium Compounds
Manganese (Mn) or manganese compounds
Mercury (Hg) or mercury compounds
Nickel (Ni) or nickel compounds
Nitrosamines
Ozone Depleting Substances
Perfluorooctane sulfonate (PFOS)
Perfluorooctanoic acid (PFOA)
Phenol
Phthalates - as listed on the EPA Phthalates Action Plan
Colorants or pigments
Polyaromatic Hydrocarbons
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl ether (PBDE)
Polychlorinated Biphenyls (PCB)
Polyvinyl Chloride (PVC)
Radioactive substances
Selenium (Se) or selenium compounds
Silver (Ag) or silver compounds
Strontium/Strontium Compounds
Tantalum/Tantalum Compounds
Tellurium (Te) or tellurium compounds
Thallium (Tl) or thallium compounds
Tungsten (W) or tungsten compounds
Vanadium/Vanadium Compounds
Zinc (Zn) or zinc compounds
Zirconium/Zirconium Compounds
Tin/Tin compounds/Organic Tin
Pesticides

Product Specification

For product specifications, please request a Sales Spec document for this product from The Dow Customer Information Group at <http://www.dow.com/en-us/contact-us-cig>.

Composition Statement

For information on the components of our product and their concentration, please refer to the Safety Data Sheet (SDS) and the 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. In addition, consult the Hazardous Decomposition Products section for further information. You can search <https://www.dow.com/en-us/support/sds-finder.html> for an available SDS.

Responsible Care

Dow complies with the American Chemistry Council's Responsible Care® guiding principles, codes, and management system requirements. Dow has recommitted its support for Responsible Care on a global scale by signing the Responsible Care Global Charter under the auspices of the International Council of Chemical Associations (ICCA). Dow has also endorsed the ICCA's Global Product Strategy, an effort by the global chemical industry to further improve its product stewardship efforts. Our EH&S management system is audited regularly to ensure compliance with all applicable governmental requirements, Responsible Care, and internal Dow requirements.

Dow has adopted what we call our "2025 Sustainability Goals" -- ambitious performance improvement goals with a broad external focus: strengthening our relationships with the communities where we operate, continuing to improve our product stewardship and innovation, and reducing our global footprint. In support of these goals, Dow is constantly working to improve our performance through focused EH&S programs such as the Waste Reduction Always Pays (WRAP) program. More information can be found by visiting <https://www.dow.com/en-us.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.

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 does not support or intend for its products to be used in:

- a. long-term or permanent contact with internal bodily fluids or tissues. "Long-term" is contact which exceeds 29 calendar days;
- 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.
- e. use as an ingredient of a pharmaceutical injectable application.

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.

Tobacco and Marijuana Policy

Dow does not support or intend for its products to be used, directly or indirectly, in the production of tobacco, the manufacture of tobacco products, the manufacture and use of electronic cigarettes/vaping, the production of marijuana, or the manufacture of marijuana products intended for human consumption, where the Dow product (or its residues) may be present in the finished product or be alleged to facilitate the delivery of nicotine, other tobacco components, marijuana, or marijuana components.



UCARE™ Polymer JR-400

Harmful Applications Policy

Dow does not intend for its products to be used in applications specifically intended to harm humans.

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.

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