



# Food Additive Status

## Araldite® Epoxy Resins

### Food Contact & Additive Regulations

The products listed below meet the requirements of the relevant Food Additive regulations. Uses are subject to Good Manufacturing Practices (GMP) and any limitations that form part of the regulations.

This information is intended to be used for general guidance. The final responsibility for product selection rests with the user since the choice of curing agent is outside of Jana's control, we therefore recommend that the regulations should be checked in case of any amendments or for relevant information relating to the curing agent.

### ARALDITE® Epoxy Resins – 21 CFR 175.300 (Direct Food Contact for Polymeric Coatings)

When correctly formulated and cured for food contact applications, the following products will comply with the U.S. Food, Drug and Cosmetic Act as amended under the Food Additive Regulation 21 CFR 175.300 (b)(3)(viii)(a); "Epoxy resins, as basic polymer".

GT 6097	GT 6099	GT 7004	GT 6084-2
GT 6063	GT 6064	GT 16099	GT 6609
GT 6610	GT 6810-1	GT 7072	GT 7077
GT 7220	GT7255		

### ARALDITE® Epoxy Resins – 21 CFR 175.105 (Components of Adhesives)

When properly formulated and cured for indirect food contact applications, the following products will comply with the U.S. Food, Drug and Cosmetic Act as amended under the Food Additive Regulation 21 CFR 175.105 (Components of Adhesives).

GT 6097	GT 6099	GT 7004	GT 6084-2
GT 6063	GT 6064	GT 16099	GT 6609
GT 6610	GT 6810-1	GT 7072	GT 7077
GT 7220	GT7255		

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## **For European Economic Area (ARALDITE® Epoxy Resins) COMMISSION REGULATION (EU) No 10/2011**

of 14 January 2011 (Text with EEA relevance) on plastic materials and articles intended to come into contact with food, inclusive of the amending and correcting Regulation for (EU) No 10/2011 i.e. (EU) 2016/1416 and 2017/752

1.

Subject to these migration limits which relate to the CURED SYSTEM and not the Epoxy resin:

Plastic materials and articles shall not transfer their constituents to food simulants in quantities exceeding 10 milligrams of total constituents released per dm<sup>2</sup> of food contact surface (mg/dm<sup>2</sup>).

2.

By derogation from paragraph 1, plastic materials and articles intended to be brought into contact with food intended for infants and young children, as defined by Commission Directives 2006/141/EC(1)

OJ L 401, 30.12.2006, p. 1 and 2006/125/EC (2)

OJ L 339, 6.12.2006, p. 16, shall not transfer their constituents to food simulants in quantities exceeding 60 milligrams of total of constituents released per kg of food simulant.

## **Swiss Revision of the Ordinance on Materials and Articles (SR 817.023.21)**

Permitted Substances are defined as those which are listed in Annex 2 and in Annex 10 and the JANA resins listed in the above tables meet these requirements

Hence all of the Jana resins listed in the table above meet the requirements of EU2011/10 and SR 817.023.21 and contain only monomers which are in the current version of the approved list which forms part of these regulations

The final product coming into contact with food, if manufactured using one of the listed Araldite products, is subject to the requirements of EU Regulation 1895/2005 concerning the migration of BADGE and certain BADGE derivatives.

The product is produced using Bisphenol A, CAS 80-05-7. Some restrictions are in place in individual countries for the use of this substance in certain food contact applications. Despite BPA being listed as an SVHC under REACH, in a correctly formulated system the extremely low levels of free BPA in these resins currently should not be any cause for concern. All resins supplied are below the SVHC limits currently in place.

## **GB 9685 – 2016: Standard for Uses of Additives in Food Contact Materials and Articles.**

All of the Jana resins listed in the table above meet the requirements of GB 9685 – 2016 epoxy resins as well as monomers used as raw materials are registered in the Jubail Chemical Industries Co. (JANA), P.O Box 11919, Jubail Industrial city 31961, Saudi Arabia  
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positive list (Annex A). They can be used for Food contact applications respecting the restrictions described into the Chinese Standard for Food Safety (GB 9685 – 2016). The restrictions don't allow to use epoxy resins in articles for infants and young children.

### **Drinking Water (Potable Water)**

All raw materials used to manufacture Araldite® grade solid epoxy resins are listed in the German Guideline for the Hygienic Assessment of Organic Coatings in Contact with Drinking water.

Due to its status under EU Regulation 10/2011 the product should be suitable to be used in formulations for drinking water contact in Europe.

However, please note, that the formulation **must** be approved by an authorised laboratory, hence we cannot make any definite statements on its suitability.

Respective links to the guiding documents:

<https://www.umweltbundesamt.de/en/topics/water/drinking-water/distributing-drinking-water/guidelines-evaluation-criteria>

<https://www.umweltbundesamt.de/en/document/guideline-for-sanitary-assessment-of-organic>

### **Aromatic Residues and Heavy Metals (RoHS)**

No toluene is used in the processing of Araldite® solid epoxy resins hence the residual toluene is zero. There are no aromatic solvents present in any of the resins listed on this declaration.

Heavy metals limits as currently defined for the RoHS and CONEG requirements are met by all of the resins listed on this declaration

### **Nomenclature**

Everything stated in this information sheet applies as well for all Araldite N-grades representing a more stringent specification window of the general grades.

### **Safety and Handling**

Jana provides its customers with a Material Safety Data Sheet (MSDS) to cover potential health effects, safe handling, storage, use and disposal information and recommends review the MSDS of all materials prior to their use.

### **Product Stewardship**

JANA supports the Responsible Care program for the management of chemicals worldwide. Product Stewardship is part of the company philosophy and everyone working for JANA, on all aspects of the products from the initial concept and development to the manufacture, sale, distribution, and disposal of each product

### **Customer Notice**

JANA encourages its customers and potential users of JANA products to

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review their applications for such products from the standpoint of human health and environmental quality. To help ensure that JANA products are not used in ways for which they were not intended or tested, please consult the MSDS and TDS, prior to use

#### Disclaimer

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