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Product Stewardship Bulletin

This Product Stewardship Bulletin (PSB) details the regulatory status of our product. GS Caltex responds to regulatory information requests with a standardized Product Stewardship Bulletin (PSB) which summarizes the regulatory status of the mentioned product below.

To the best of our knowledge, information in this document is accurate at the date of publication. However, please note that compliance with these regulations should not be interpreted to guarantee that the product will perform in a particular application. The document is just designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose.

Users shall determine whether the product is suitable for their use and can be used safely and legally. We recommend carrying out multiple tests before using to determine suitability. In addition to any prohibitions of use specifically noted in this document, GS Caltex may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a GS Caltex representative.

Grade: 5502BN

Global Food Contact Status:

European Union

This product is manufactured in compliance with the relevant requirements of Regulation 1935/2004/EC and as amended, applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes).

This product is manufactured in compliance with the relevant requirements of Regulation 2023/2006/EC and as amended, applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes).

This product meets the restriction(s) on the substances in Table 1, Annex II of Commission Regulation (EU) No 10/2011 amended by Commission Regulation (EU) 2020/1245. Primary aromatic amines are not intentionally used as additives or raw materials in the manufacture of this product.

This product is manufactured in compliance with the relevant requirements of Regulation 10/2011/EC and as amended, applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes).

The monomers and additives used to produce this product are listed in the Union List of Authorized Substances of Regulation 10/2011/EC and subsequent amendments.

The finished plastic food contact materials or articles are required to meet the overall migration limit (OML, 10 mg/dm²) according to EU Regulation 10/2011/EC. The OML and SMLs (when applicable) should be assessed according to the requirements stated in EU Regulation 10/2011/EC and subsequent amendments. The manufacturer of the finished plastic food contact materials or articles are responsible for the OML and SML assessments. In addition, we remind you that the manufacturers of the finished food contact materials or articles must verify that the finished materials or articles, manufactured according to good manufacturing practices, do not modify the organoleptic properties of the food.

Specific Migration Limits (SMLs)

Monomers, additives or other substances which have SMLs or QMAs as specified by Regulation 10/2011/EC are not intentionally used to produce this product.

This product does not contain Dual Use Additives as defined in Regulation 10/2011/EC.

United States

The base resin in this product complies with the FDA requirements stated in the Code of Federal Regulations in 21 CFR 177.1520(c)3.2a.

This product complies with the FDA criteria in 21 CFR 177.1520 for food contact applications, including cooking, listed under conditions of use B through H in 21 CFR 176.170(c), Table 2, and can be used in contact with all food types as listed in 21 CFR 176.170(c), Table 1.

Swiss Food Contact

The monomer(s) and the additive(s) of this resin are listed in SR 817.023.21 Regulation on materials and articles intended to come into contact with food Annex 2.

This product was tested for the overall and specific migration compliance per Commission Regulation (EU) No 10/2011. The tested sample thickness was 3.175 mm (125 mils). The surface-to-volume ratio was 1 dm² sample immersed in 1dl simulant. For measuring the overall migration level, this product was tested with 3% acetic acid for 10 days at 40°C, with 50% ethanol for 10 days at 40°C, and with olive oil for 10 days at 40°C. For measuring the specific migration level, this product was tested with 3% acetic acid for 10 days at 60°C, with 50% ethanol for 10 days at 60°C, and with olive oil for 10 days at 60°C. This product complies with the overall migration limit (OML) and specific migration limits (SML).

China Food Contact

This polyethylene resin is polyethylene 1-hexene/ethylene copolymer, and meets China food contact regulations as below.

- This resin meets the requirements of GB 4806.6-2016.
- This resin is listed on GB 4806.6-2016 “Standard on food-contact use plastic resin” Appendix A Table A.1, as No 101, CAS 25213-02-9.
- This resin meets the requirements of GB 4806.1-2016 General safety requirements for food contact materials and articles.
- This resin is produced in accordance with good manufacturing practice (GMP) as outlined in GB 31603-2015 General hygiene standard on manufacturing food contact materials and articles.
- The additives of this resin are all listed on GB 9685-2016 “Standard on the uses of additives in food contact materials and articles”, and meet the corresponding allowed maximum use levels.
- The monomer 1-hexene has SML 3 mg/kg. (Specific Migration Limits)
A representative grade of this resin family was tested for the overall and specific migration compliance. The tested sample thickness was 3.175 mm (125 mils). The surface-to-volume ratio was 1 dm² sample immersed in 1dl simulant. For measuring the overall migration limit (OML), this product was tested with 3% acetic

acid for 10 days at 40°C, with 50% ethanol for 10 days at 40°C, and with olive oil for 10 days at 40°C. For measuring specific migration limits (SML), this product was tested with 3% acetic acid for 10 days at 60°C, with 50% ethanol for 10 days at 60°C, and with olive oil for 10 days at 60°C. This product complies with the OML and SMLs.

Mercosur Food Contact

The monomer(s) of this resin are listed in Mercosur /GMC/Res. N° 02/12 and its modification GMC/Res. N° 19/21. The additive(s) in this product are listed in Mercosur/GMC/Res. N° 39/19.

GMC Res. No. 20/21, "Modification of GMC Resolution No. 56/92 General Provisions for plastic containers and equipment in contact with food," is applicable to a final article.

Japan Food Contact

Japanese Ministry of Health, Labor and Welfare (MHLW) published a formal Positive List (PL) System for food-contact materials (FCM) used in the manufacture of food-contact utensils, containers, and packaging (UCP).

- This product is polyethylene 1-hexene/ethylene copolymer (CAS No. 25213-02-9). It is listed on Table 1(1) Base Polymers (Plastics) as 40 Polyethylene, Ref No 982, Serial No 1, Synthetic Resin Group 5, all types of food, and maximum temperature III.
- Additives in this product are all listed on Table 2 Additives. Meet the maximum use limits and restrictions.

Allergen Statements

Allergen - Food Allergen European Regulation 1169/2011

Allergens, including but not limited to those listed in EU Regulation 1169/2011, Directives 2000/13/EC, 2003/89/EC, and Section B.01.010.1 (1) of Canadian Regulation C.R.C., c. 870, and US FDA Food Allergen Labeling and Consumer Protection Act of 2004 (FALCPA) such as: peanuts, tree nuts, milk, eggs, wheat gluten, soybeans, sesame, fish and shellfish.

Biomedical Policy

This product(s) may not be used in:

(1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; or (2) applications involving permanent implantation into the body.

Prior written approval for each specific product and application must be given by GS Caltex before this product(s) is used in any:

(1) U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices; (2) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (3) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; or (4) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration

All references to U.S. FDA, Health Canada, and European Union regulations include other country's equivalent regulatory classifications.

Animal Based Raw-Materials (BSE/TSE)

Europe – BSE/TSE “Mad Cow”

Materials derived from tallow are not intentionally used to manufacture this product according to the Regulations 1069/2009/EC, and 142/2011/EC, and the “Note for Guidance EMA/410/01”, and as amended.

Epoxy derivatives

The materials BADGE, BFDGE or NOGE are not intentionally used in this product as referenced in Commission Regulation 1895/2005/EC, on the use of certain epoxy derivatives in materials and articles intended to come into contact with foodstuffs as plasticizers, additives or raw materials.

California Prop 65

This product, as shipped, does not contain any carcinogens or reproductive toxins presently known by the State of California to cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65.

Genetically Modified Organisms (GMO)

Additives derived from Genetically Modified Organisms (GMO) are not intentionally used in the manufacture of this product.

Halal Certification

This product is not certified as Halal.

Kosher Certification

This product is not certified as Kosher.

Latex

Materials containing latex or natural rubber are not used in the manufacturing, handling and packaging processes for this product.

Metals Content

US CONEG

According to the available information provided by our raw material suppliers, this product complies with the CONEG Model Legislation for requirements regarding the defined limit for the sum of heavy metals (lead, mercury, cadmium and hexavalent chromium).

EU Packaging and Packaging Waste

According to the available information from our raw materials suppliers, this product complies with the directive 94/62/EC and as amended regarding the defined limit(s) of heavy metals.

Restrictions of Hazardous Substances (RoHS)

RoHS Regulation refers to electrical and electronic equipment and not specifically to plastic raw materials. However, according to the available information from our raw materials suppliers, this product complies with the requirements of the Directives 2002/95/EC and 2011/65/EU, as amended, regarding the limits of cadmium, lead, mercury, hexavalent chromium, polybrominated diphenyl ethers (PBDE), bis(2-ethylhexyl)phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP), and diisobutyl phthalate (DIBP).

Nanomaterials

Nanomaterials (defined as natural, incidental or manufactured materials containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50% or more of the particles in the number size distribution, one or more external dimensions is in the size range 1nm – 100nm) are not intentionally used in the manufacture of this product. However, this product has not been tested for these substances.

General Absence Declaration

The chemical materials listed below are not intentionally used in the manufacture of this

product. However, this product has not been tested for these substances, and it's the responsibility of the customer to check compliance of the final articles with the relevant legislative and applicable regulatory requirements including their restrictions.

- 2-(2H-1, 2, 3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol; (Benzotriazole); CAS# 3846-71-7;
- 2,4,4'-trichloro-2'-hydroxydiphenyl ether; (Triclosan); CAS# 3380-34-5;
- 2-mercaptobenzothiazole; (MBT); CAS# 149-30-4;
- Acrolein; (propenal); (CAS# 107-02-8);
- Acrylamide; CAS# 79-06-1;
- Alkylphenols;
- Aromatic amines;
- Asbestos;
- Azo Dyes and Pigments;
- Polyaromatic Hydrocarbons - PAHs:

1,2-dihydro-acenaphthene; (CAS# 83-32-9);

9H-Fluorene; (CAS# 86-73-7);

Acenaphthylene; (CAS# 208-96-8);

Anthracene; (CAS# 120-12-7);

Benz(a)anthracene; (CAS# 56-55-3);

Benzo(a)pyrene; (CAS# 50-32-8);

Benzo(b)fluoranthene; (CAS# 205-99-2);

Benzo(e)pyrene; (CAS# 192-97-2);

Benzo(ghi)perylene; (CAS# 191-24-2);

Benzo(j)fluoranthene; (CAS# 205-82-3);

Benzo(k)fluoranthene; (CAS# 207-08-9);

Chrysene; (CAS# 218-01-9);

Dibenz(a,h)anthracene; (CAS# 53-70-3);

Fluoranthene; (CAS# 206-44-0);

Indeno(1,2,3-cd)pyrene; (CAS# 193-39-5);

Naphthalene; (CAS# 91-20-3);

Phenanthrene; (CAS# 85-01-8);

Pyrene; (CAS# 129-00-0);

- Benzophenone; CAS# 119-61-9;
- Bisphenol A; (BPA); CAS# 80-05-7;

- Bisphenol A diglycidyl ether; (BADGE); CAS# 1675-54-3;
- Bisphenol F diglycidyl ether; BFDGE; CAS# 2095-03-6;
- Butylated hydroxyanisole; (BHA); CAS# 121-00-6 & 25013-16-5;
- Butylated hydroxytoluene; (BHT); CAS# 128-37-0;
- Chlorinated paraffins;
- Cyanuric acid; (Isocyanuric Acid or CYA); CAS# 108-80-5;
- Dimethyl fumarate; (DMF); CAS# 624-49-7;
- Dioxins;
- Epichlorohydrin; (ECH); CAS# 106-89-8;
- Fluorocarbons;
- Fluorotelomers;
- Formaldehyde; CAS# 50-00-0;
- Formaldehyde in specific conditions could be formed during further resin processing (see SDS)
- Gold(Au); CAS# 7440-57-5;
- Halogenated Flame Retardants;
- Melamine; (1,3,5-Triazine-2,4,6-triamine); CAS# 108-78-1;
- Nonylphenol; CAS# 25154-52-3;
- Nonylphenol ethoxylates;
- Novolac glycidyl ether;
- Organotin compounds;
- Perfluorochemicals; (PFCs);
- Perfluorooctane sulfonate; (PFOS); CAS# 1763-23-1;
- Perfluorooctanoic acid; (PFOA); CAS# 335-67-1;
- Polybrominated biphenyls; (PBBs);
- Polybrominated diphenyl ethers; (PBDEs);
- Polybrominated terphenyls; (PBTs);
- Polychlorinated biphenyls; (PCBs);
- Polychlorinated naphthalenes; (PCNs);
- Polychlorinated terphenyls; (PCTs);
- Polystyrene;
- Polyvinyl chloride; (PVC); CAS# 9002-86-2;
- Radioactive substances;
- Radon; CAS# 10043-92-2;
- Styrene monomer; CAS# 100-42-5;
- Sulphur dioxide; CAS# 7446-09-5;
- Tin oxide (SnO₂); (Cassiterite); CAS# 8062-08-6;
- Tris-nonylphenol phosphite; (TNPP); CAS# 26523-78-4;

- Vinyl chloride monomer; (VCM); CAS# 75-01-4;
- Wolframite; Tungsten; (W); CAS# 1332-08-7;

Ozone Depleting Substances

European Union

The ozone depleting substances (ODS), listed in the Annexes I & II of the Regulation (EC) No. 1005/2009 of 16 September 2009, are not intentionally used in the manufacture of this product.

United States

Substances listed in the Clean Air Act Amendments of 1990 (Class I, CFC's and Class II, HCFC's, Halons and the solvents, carbon tetrachloride and 1,1,1-trichloroethane) are not intentionally used in the manufacture of this product.

Phthalates

Phthalates are not intentionally used in the manufacture of this product. However, this product has not been tested for phthalates.

REACH Substances of Very High Concern (SVHC)

This product does not contain any of the Annex XIV substances on the Authorization list or Annex XIV candidate substances proposed to be Substances of Very High Concern for Authorization (List as of January 19, 2021) above the 0.1 % threshold as stated in REACH (Article 57, Regulation No. 1907/2006) determined either through (i) non-use of the substance, (ii) mass balance calculation, or (iii) specific testing. The current list of all SVHCs can be found at ECHA website link listed below:

<https://www.echa.europa.eu/candidate-list-table>

Global Chemical Control Regulations

All substances in this product comply with the following chemical inventories.
(See Section 15, of the Safety Data Sheet for Global Chemical Inventories.)

- AUSTRALIA: Australian Inventory of Industrial Chemicals (AIIC)
- CANADA: Domestic Substances List (DSL) & Non-Domestic Substances List (NDSL)
- PEOPLE'S REPUBLIC OF CHINA: Inventory of Existing Chemical Substances (IECSC)
- EUROPEAN UNION: All necessary components have been registered according to

Regulation (EU) No. 1907/2006 (REACH).

- SWITZERLAND: Exemptions from the obligation to notify/register
- JAPAN: Existing & New Chemical Substances (ENCS) Inventory
- KOREA: Existing Chemicals List (ECL)
- PHILIPPINES: Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- NEW ZEALAND: Inventory of Chemical Substances (NZIoC)
- TAIWAN: Taiwan Chemical Substance Inventory (TCSI) On the inventory or in compliance with the inventory. Further registrations may apply.
- UNITED STATES: On or in compliance with the active portion of the Toxic Substances Control Act (TSCA) Chemical Inventory

Global Toy Regulations

CEN EN Standards refer to safety of toys and not specifically to plastic raw materials. According to the information provided by our raw material suppliers, we deem this product should comply with the requirements of CEN standards EN71-3 / EN71-9 (as amended) as applicable to plastic raw materials (pellets, powder, flakes). However, this product has not been tested according to these CEN Standards.

Switzerland VOC Declaration

This product contains less than 3% VOC's of the substances in the positive lists of the Switzerland Regulations "VOC-LENKUNGSABGABE."

CEN Standard EN 13432:2004

This product is not suitable for composting.

Conflict Minerals

GS Caltex is committed not to deliberately purchase raw materials containing the minerals cassiterite, columbite-tantalite, gold, tantalum, tin, tungsten, or wolframite that directly or indirectly finance armed groups in the Democratic Republic of the Congo and neighboring countries.

Food Contact

It is the responsibility of the packaging converter or food packager to verify that the finished article meets both the technical and regulatory requirements of the intended application.

Disclaimer

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question

and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. GS Caltex does not make, and expressly disclaim, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.

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