

Polyethylene

Borstar™ FB4230 Borealis

We confirm that during manufacturing of this product we do not use or intentionally add any of the chemicals restricted by the following regulations and standards and their subsequent amendments in amounts which exceed the applicable limits.

- **Annex XVII** of the REACH Regulation **1907/2006/EC** - Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles
- **Annex XIV** of the REACH Regulation **1907/2006/EC** - List of substances subject to authorisation
- **US TPCB** Model Toxics in Packaging Legislation, February 2021
- Directive **94/62/EC** (Packaging and packaging waste - PPW) and related **EN13428** and **CR13695**
- Sum of Cd, Cr(VI), Hg and Pb < 100 ppm
- Directive **2000/53/EC** (End of life vehicles - ELV) - Cr(VI), Hg and Pb < 0.1 wt%, Cd < 0.01 wt%
- Directive **2011/65/EU** (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment - RoHS) and all other RoHS legislations worldwide that restrict some or all of the following substances - Pb, Hg, Cr(VI), PBB, PBDE, DEHP, BBP, DBP, DIBP < 0.1 wt%, Cd < 0.01 wt%
- Directive **2012/19/EU** (Waste Electrical & Electronic Equipment - WEEE) - Annex VII - No ingredients used which require selective waste treatment
- **Proposition 65** list of chemicals known to the State of California to cause cancer or reproductive toxicity - no warning labels are required for this product
- Regulation (EU) **2024/590** on Substances that deplete the ozone layer, repealing 1005/2009/EC
- **US Clean Air Act**, Title VI, Classes I and II (EPA Final Rule; Federal Register 8136, 11.2.1993) on substances that deplete the ozone layer
- Regulation (EU) **2019/1021** on persistent organic pollutants (POPs)
- Food allergens as listed in
 - Annex II of Regulation (EU) 1169/2011
 - US FALCPA of 2004 and FASTER Act of 2021
 - Brazilian Resolution RDC no. 727 of July 2022
- Global Automotive Declarable Substance List (**GADSL**)
- No use of prohibited or declarable substances above threshold limits
- Swiss **SR 814.018** (Verordnung über die Lenkungsabgabe auf flüchtigen organischen Verbindungen - VOCV) - VOC's according to Annexes 1 & 2 < 3 wt%
- Regulation **1223/2009/EC** (cosmetic products) - prohibited and restricted substances
- Directive **2009/48/EC** (safety of toys)
- European Standard **EN 71-3:2019+A1:2021** "Safety of Toys", Part 3: "Migration of certain elements" - Migration below limits for toy material category III in Table 2.
- Japanese CSCL; Class I or II Specified Chemical Substances

Borstar is a registered trademark of the Borealis group.

Borealis AG | Trabrennstrasse 6-8 | 1020 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com



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Regarding classification of the above product according to REGULATION (EC) No 1272/2008 and its subsequent amendments, reference is made in the SDS/PSIS for the above product.

We also confirm that during the manufacturing of the above product we do not use or intentionally incorporate into it any of the following materials:

| | |
|--|---|
| Acrylamide | Glyoxal |
| Additives of animal origin | Halogenated organic compounds |
| Aromatic Amines (restricted in Regulation 1907/2006/EC, Annex XVII) | Hydroquinone |
| Artificial Musks | Isocyanates, polyurethanes |
| Asbestos | Mechanically recycled materials |
| Azocolorants (restricted in Regulation 1907/2006/EC, Annex XVII) | Melamine, Cyanuric acid |
| Azodicarbonamide, semicarbazide | Mica |
| Benzophenones (e.g. 4-MBP, 4-HBP, 2,2'-Dimethoxy-2-phenylacetophenone) | MOAH (mineral oil aromatic hydrocarbons) |
| BHA or BHT | Nanomaterials (>50% of particles <100 nm) |
| Biocides (Pesti-, Herbi-, Insecti-, Fungi-, Bactericides) | Natural rubbers, Latex |
| Bisphenols and their compounds (e.g. NOGE, BFDGE, BADGE) | Nitrosamines, Nitrates, Nitrites* |
| CFC, HCFC | Octyl- and Nonylphenols and Octyl- or Nonylphenoethoxylates; TNPP |
| CMR substances Categories 1A, 1B according to Regulation 1272/2008/EC | Organotin compounds |
| Colophony (rosin) | Oxo-degradable additives |
| 4,4'- Diaminodiphenylmethane (MDA) | Parabens |
| Di-2-ethyl-hexyl maleate (DEHM) | PBT and vPvB substances according to EC Regulation No.1907/2006 (REACH) |
| Dimethylfumarate (DMF), Dibutylfumarate | PBT substances under TSCA section 6(h) |
| 1,4-Dioxane | PFAS (acc. OECD definition) |
| Elements: Antimony, Arsenic, Beryllium, Bismuth, Cobalt, Gold, Indium, Lanthanites, Nickel, Palladium, Selenium, Silver, Tellurium, Thorium, Tin, Tantalum, Tungsten | PFOA, PFOS |
| Heavy metals: Cadmium, Chromium (VI), Lead, Mercury | Phthalates |
| Endocrine disruptors: Substances identified as ED at EU level (List I) | Plasticisers (e.g. Adipates, ESBO, NETSA) |
| 2-Ethylhexanoic acid, Ethoxyquin, ITX, Thiurams | Polychlorinated Bi-, Terphenyls and Naphthalenes |
| Flame retardants (halogenated or phosphorus based) | Polychlorinated dibenzodioxins and dibenzofurans |
| Formaldehyde or formaldehyde releasers | Polycyclic aromatic hydrocarbons (PAH) as restricted in Regulation 1907/2006/EC, Annex XVII |
| Fragrances | Quaternary ammonium compounds * |
| Furfural | Radioactive substances |
| Glycol ethers (e.g. EGME, EGMEA, EGEE, EGEEA) | Resorcinol |
| | Silicones (polysiloxanes) |
| | Styrene, Polystyrene |
| | SVHC on "Candidate List of Substances of Very High Concern for Authorisation" |
| | Thiuram mix |
| | Tri-tert-butylphenol |
| | UV-hardeners (e.g. ITX, Titanyl-acetylacetone) |
| | Vinylchloride, Vinylidenechloride, PVC, CPVC or PVDC |

*) Quaternary ammonium compounds and nitrites may be found in used process chemicals resulting in traces of these substances in the product at concentrations below 1 ppm.

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The ingredients of the above product, and if applicable the basic polymer(s), are either listed or exempted in the following chemical inventories:

Australia/AIICS
Canada/DSL
China/IECSC
Europe/EINECS or ELINCS or NLP
Japan/ENCS and ISHL
Korea/KECL
New Zealand/NZIoC
Philippines/PICCS
Taiwan/TCSI
USA/TSCA (all relevant ingredients designated as active)

Prepared by Borealis, Group Product Stewardship

Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.