Regulatory Data Sheet

Adi-pure® Adipic Acid

REACh

INVISTA confirms that the products listed above, if supplied to your company by INV Nylon Chemicals Netherlands B.V. is currently in compliance with the EC regulation 1907/2006 (REACH).

This means that the substances/monomers contained in the product are either:
- registered by INV Nylon Chemicals Netherlands B.V.; and/or
- exempted from registration under REACH; and/or
- excluded from REACH altogether.

However, please note that according to INVISTA's current interpretation of the regulation this registration can only cover product manufactured by INV Nylon Chemicals Netherlands B.V. in the EU or imported into the EU by INV Nylon Chemicals Netherlands B.V. It is not possible for INV Nylon Chemicals Netherlands B.V. to cover product which does not meet these criteria.
The product above, when supplied to your company by INVISTA Nylon Chemicals (China) Co. Ltd. or INVISTA (US), is not manufactured in the EU and is at no time imported into the INV Nylon Chemicals Netherlands B.V.. In these circumstances it will not be covered by any registration which INV Nylon Chemicals Netherlands B.V. holds for substances or monomers contained in the product in the EU.

REACH Annex XVII – Restrictions of certain dangerous substances

Based on our knowledge we advise you that INVISTA does not include as an intentional additive or ingredient the chemicals currently listed in Annex XVII and none of the listed chemicals are intentionally added or expected to be present in the product listed above.

REACH Annex XIV – Authorization List

Based on our knowledge we advise you that INVISTA does not include as an intentional additive or ingredient the chemicals currently listed in Annex XIV and none of the listed chemicals are intentionally added or expected to be present in the product listed above.

Chemical Inventory Status

This product is either listed, or exempt from being listed, on the following chemical inventories:
Australia (AICS); Canada (DSL); China (IECSC); European Union (EINECS); Japan (ENCS); Japan (ISHL); Korea (KECI); New Zealand; Philippines (PICCS); United States (TSCA) (Active); Taiwan (TCSI)

RoHS

In reference to compliance with European directive 2011/65/EU and amendments (RoHS3), this directive places restrictions on the maximum concentration of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenylethers (PBDE) in electrical and electronic equipment. We advise you that INVISTA does not include as an intentional additive or ingredient or as a known impurity above designated thresholds in the above listed product the chemicals identified below:
Metals: Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr VI), Zinc (Zn)
Brominated phenols: Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE)
Phthalates: Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP)

SVHC

We advise you that the following chemicals are not present in the above listed product as provided to you by INVISTA.

SVHC substances according to REACH EC/1907/2006 (list as of 7 November 2024)

Based on our knowledge we advise you that INVISTA does not include as an intentional additive or ingredient the chemicals identified in your inquiry in the manufacture of the products mentioned above.

GADSL

We have evaluated the chemicals listed on GADSL (list as of 1-July-2023) and none of the listed chemicals are intentionally added or expected to be present at or above the listed GADSL/IMDS threshold limits in the above listed product.

California Proposition 65

The list of chemicals known to the State of California to cause cancer, birth defects or other reproductive harm for purposes of the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

We advise you that, as of the revision date of this document, INVISTA does not include as an intentional additive or ingredient these chemicals and/or materials in the manufacture of the above listed product.

California Flame Retardants AB 2998

The flame retardant chemicals that are prohibited by AB 2998 as defined in §19100(c)(1). We advise you that INVISTA does not include as an intentional additive or ingredient these chemicals and/or materials in the manufacture of the above listed product.

Carcinogenic, Mutagenic, or toxic for Reproduction (CMRs)

We have evaluated the chemicals listed as CMRs under Part 3 of Annex VI to Regulation (EC) No. 1272/2008 and we advise you that INVISTA does not include as an intentional additive or ingredient these chemicals and/or materials in the manufacture and/or none of the chemicals listed are expected to be present in the above listed product.

Dodd-Frank Act: Conflict Minerals

INVISTA does not include as an intentional additive or ingredient the conflict minerals listed below in the manufacture of the above listed product.

-Tantalum and Columbite – tantalite (or Coltan) – ore for tantalum
-Tin and Cassiterite – ore for tin
-Tungsten and Wolframite – ore for tungsten
-Gold

Please note that INVISTA does not routinely analyze the above listed product for the above referenced substances.

Regulatory Data Sheet

INVISTA™

FDA Food Contact

This product is comprised of adipic acid (CAS# 124-04-9). In the United States, FDA's regulations for food contact applications allow the use of adipic acid as a component of food contact substances, i.e. indirect food additives (subject to the specific requirements and limitations of the corresponding Code of Federal Regulations citation) including:

- Adhesives (21 CFR 175.105)
- Resinous and polymeric coatings (21 CFR 175.300) and films (21 CFR 175.320)
- Components of paper and paperboard in contact with aqueous and fatty foods (21 CFR 176.170) and with dry food (21 CFR 176.180)
- Cellophane (21 CFR 177.1200)
- Closures with sealing gaskets for food containers (21 CFR 177.1210)
- Resins including nylon (21 CFR 177.1500), polyurethane (21 CFR 177.1680), and cross-linked polyester resins (21 CFR 177.2420)
- Rubber articles intended for repeated use (21 CFR 177.2600)

Please note that INVISTA makes no representations regarding the FDA regulatory status of polymers produced from this product; it is the customer's responsibility to ensure that the product based polymer is FDA compliant.The regulatory listings included above are merely intended to illustrate the ways in which this product potentially can be used to produce FDA-compliant polymers.

Be advised that adipic acid (CAS# 124-04-9) is listed under nr 12130 in EU Regulation EC/10/2011 and amendments, with no restrictions.

European Standard EN71

We have evaluated the chemicals listed in European Standard EN71 and none of the listed chemicals are intentionally added or expected to be present in the above listed product. However, that INVISTA does not analyze the above listed product for the chemicals identified in your inquiry on a routine basis. Please note that while the above product does not contain the substances listed in EN71 it is the responsibility of the toy manufacturer to ensure the products that they produce are complaint with the standard.

ZDHC MRSL V2.0 (Manufacturing Restricted Substance List)

We have evaluated the chemicals listed in ZDHC MRSL v2.0 and none of the listed chemicals are intentionally added or expected to be present in the above listed product. However, that INVISTA does not analyze the above listed product for the chemicals identified in your inquiry on a routine basis.

European Persistent Organic Pollutants (POPs) EN 2019/1021

We have evaluated the chemicals listed in the recast of the EU POPs and none of the listed chemicals are intentionally added or expected to be present in the above listed product. However, that INVISTA does not analyze the above listed product for the chemicals identified in your inquiry on a routine basis.

Other Substances

We advise you that INVISTA does not include as an intentional additive or ingredient the chemicals and/or materials below in the manufacture of the above listed product.

Asbestos
Formaldehyde
Pesticides Phthalates
Chlorinatedbenzenes andtoluenes
Biological activeproducts
Flame retardantproducts
Heavy-metals in extractable form *(>100 ppm)*
Sb (Antimony), As (Arsenic), Pb (Lead), Cd (Cadmium), Cr (Chromium), Cr(VI), Co (Cobalt), Cu (Copper), Ni (Nickel), Hg (Mercury)
CONEG (94/62/EG) metals (in extractable form) *(>100 ppm):*
Pb (Lead), Cd (Cadmium), Cr (Chromium VI), Hg (Mercury)
Chlorinated phenols: PCP, TeCP, TrCP, DCP, MCP
Organic tin compounds: TBT, TPhT, DBT, DMT, DOT, DPhT, DPT, MBT, MOT, MMT, MPhT, TeBT, TeET, TCyHT, TMT, TOT, TPT
Other chemical residues: OPP, Arylamines, SCCP, TCEP, DMFu
Colorants: Cleavable arylamines, carcinogens, allergens, Navy Blue
Polycyclic aromatic hydrocarbons (PAH):
Benzo[a]pyrene, Benzo[e]pyrene, Benzo[a]anthracene, Chrysene, Benzo[b]fluoranthene, Benzo[j]fluoranthene, Benzo[k]fluoranthene, Dibenzo[a,h]anthracene
Volatile Organic Compounds: Benzene (71-43-2), Xylene (1330-20-7), o-cresol (95-48-7), p-cresol (106-44-5), m-cresol (108-39-4)
Halogenated Solvents: 1,2-dichloroethane (107-06-2), Methylene chloride (75-09-2), Trichloroethylene (79-01-6), Tetrachloroethylene (127-18-4)
Surfactant, wetting agent residues: OP, NP, OP(EO), NP(EO)
PFC's (Per- and polyfluorinated compounds): PFOS, PFOSA, PFOSF, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE, PFOA, PFAS, PFHpA, PFNA, PFDA, PFUdA, PFDoA, PFTrDA, PFTeDA, Further perfluorinated carbonic acids, Perfluorinated sulfonic acids, Partially fluorinated carbonic / sulfonic acids, Partially fluorinated linear alcohols, Esters of fluorinated alcohols with acrylic acid

UV stabilizers: UV 320, UV 327, UV 328, UV 350
Animal Derived Components
Allergens*: milk, eggs, nuts, shellfish, fish, wheat, soy, gluten*
Latex
Natural Rubber
Bisphenol A (BPA), Bisphenol S (BPS), Bisphenol F (BPF)
Plasticizers
Epoxy Derivatives: Bisphenol-A DiGlycidyl Ether (BADGE), Bisphenol-F DiGlycidyl Ether (BFDGE), novolac glycidyl ethers (NOGE)
Optical Brighteners
EDTA (60-00-4)
DTPA (67-43-6)
Genetically Modified Organisms & components derived from GMOs
Chlorine (7782-50-5) Polyvinyl chloride (PVC)
Polybrominated biphenyls (PBB)
Polychlorinated biphenyls (PCB)
Polybrominated diphenyl ethers (PBDE)
Hexabromocyclododecane (HBCD)
Colophony (8050-09-7)
Mica
Phenol, Isopropylated Phosphate (PIP (3:1)) Decabromodiphenyl Ether (DecaBDE)
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP) Hexachlorobutadiene (HCBD) Pentachlorothiophenol (PCTP)
Solvent residues: NMP, MDAc, DMF, Formamide
Glycols:
Bis(2-methoxyethyl)-ether (111-96-6)
2-ethoxyethyl acetate (111-15-9)
2-methoxyethanol (109-86-4)
2-ethoxyethanol (110-80-5)
2-methoxyethylacetate (110-49-6)
2-methoxypropylacetate (70657-70-4)
Ethylene glycol dimethyl ether (110-71-4)
Triethylene glycol dimethyl ether (142-49-2)

Please note that INVISTA does not routinely analyze the above listed product for the above referenced substances.