DECLARATION DATA SHEET

Polyethylene TIPELIN BS 501-17

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

The joint product portfolio of MOL Petrochemicals and Slovnaft provides infinite opportunities

GENERAL PROPERTIES

Characteristic: High density polyethylene copolymer granulate intended for blow moulding application
Used monomer: ethylene (CAS No.: 74-85-1)
Used Co-monomer: 1-Hexene (CAS No.: 592-41-6)
Applied Catalyst system: Chromium(III) oxide
Type of polymerization / License: free radical polymerization / Chevron Phillips
Shelf life: quality of this product is stable for 1 year after the production if the storage conditions fulfill the requirements of Technical Data Sheet

FOOD CONTACT APPLICATION

The composition of this product as supplied from our factory complies with the requirements for use in contact with food of:
Commission Regulation (EC) No. 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food,
Commission Regulation (EU) No. 10/2011 (14 January 2011) on plastic materials and articles intended to come into contact with food and its amendments such as 1282/2011/EC (28 November 2011), 1183/2012/EC (30 November 2012), 202/2014/EC (3 March 2014), 2015/174/EC (5 February 2015), 1416/2016/EC (24 August 2016), 2017/752 EC (28 April 2017), 2018/79 (18 January 2018), 2018/213/EC (12 February 2018), 2018/831/EC (5 June 2018) and 2019/37 (10 January 2019).
(applies to all EU-Member States).

We declare that we use monomers and additives in our production only which are listed in union list of authorized monomers, other starting substances, additives, and polymer production aids of Directive 10/2011/EC ANNEX I.
Furthermore, we confirm that this product complies with Directive 10/2011/EC ANNEX I.
Based on migration experiments with test samples made of this polymer and carried out in the presence of the standard food simulants A, B, D1 and D2 at 40°C during 10 days, it is our experience that under these conditions overall migration limits are not exceed 10 mg/dm2. Furthermore we declare that this product does not release substances in detectable quantity listed in 10/2011/EC ANNEX II.
We draw your attention to the fact that the EU-Directive 10/2011/EC, which applies to all EU-Member States, includes a limit of 10 mg/dm2 on the overall migration from finished plastic articles into food. In accordance with EU-Directive 10/2011/EC the migration should be measured on finished articles placed into contact with the foodstuff or appropriate food simulants for a period and at the temperature which are chosen by reference to the contact conditions in actual use according to the rules laid down in EU-Directives 97/48/EC (amending 82/711/EEC) and 85/572/EEC.

During production of above mentioned product we use 1-hexene comonomer with SML=3 mg/kg, do not use any SML specified catalyst and use antioxidant additive with SML = 6 mg/kg (CAS No.: 002082-79-3) according to EU-Directive 10/2011/EC Annex I.

EU-Directive 10/2011/EC does not specify residual quantity (QM) limitations on the individual components of this resin.
Dual Use Additives: The information provided concerning additives which are also food additives and flavouring is based on our current knowledge.
Dual use additives are not used for production of this product.

Please note it is responsibility of both the manufacturers of finishing contact articles as well as the industrial food packers to make sure that these articles in their actual use are in compliance with the imposed overall migration requirements.

REGULATION (EC) NO 2023/2006 (22ND OF DECEMBER 2006) ON GOOD MANUFACTURING PRACTICE FOR MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD

We declare that production of this product runs under established, implemented and observed effective and documented quality assurance system certified by ISO 9001, ISO14001 and OHSAS 18001 so that, under normal or foreseeable conditions of use, its constituents can not transfer to food in quantities which could endanger human health or bring about an unacceptable change in the composition of the food or bring about deterioration in the organoleptic characteristics.
We fulfill the general rules on GMP as laid down in the Articles 5, 6 and 7 of above mentioned commission regulation (EC) No. 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food.
Moreover we declare that our production process is in harmony with requirements of Directive 1999/92/EC (16 December 1999) on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.

Swiss Ordinance

We confirm that the above mentioned product compliance with Swiss ordinance 817.023.21.
During production of above mentioned product we use 1-hexene comonomer with SML=3 mg/kg, do not use any SML specified catalyst and use antioxidant additive with SML = 6 mg/kg (CAS No.: 002082-79-3) according to Swiss ordinance 817.023.21. (last amendment at 1st of December 2020).
Considering above matter of fact is not reasonable to expect any of such substances to be present in above mentioned product.
However, this product has not been tested for this chemical substance.

Chinese food contact standard

We confirm that the above mentioned product complies with the requirements for Chinese food contact standard:

- GB 4806.6-2016: National Food Safety Standard Plastic Resin used in food-contact
- GB 9685-2016: National Food Safety Standard, Standard for Uses of Additives in Food Contact Materials and Their Products

Additionally, we use 1-hexene comonomer with SML=3 mg/kg and use antioxidant additive with SML = 6 mg/kg (CAS No.: 002082-79-3) according to these requirements.
However, this product has not been tested according to this standard.

Mercosur regulation

As the producer of this grade we confirm that this product is in compliance with the following Mercosur standards:
MERCOSUR/GMC/RES. No. 02/12 MERCOSUR TECHNICAL REGULATION ON POSITIVE LIST OF MONOMERS, OTHER STARTING SUBSTANCES AND POLYMERS AUTHORIZED FOR THE MANUFACTURE OF FOOD-CONTACT PLASTIC PACKAGING AND EQUIPMENT
During the production of above mentioned garde we use 1-hexene comonomer with SML=3 mg/kg.
MERCOSUR/GMC/RES. N° 39/19 MERCOSUR TECHNICAL REGULATION ON THE POSITIVE LIST OF ADDITIVES FOR THE PREPARATION OF PLASTIC MATERIALS AND POLYMERIC COATINGS THAT COME INTO CONTACT WITH FOOD (REPEAL OF GMC RESOLUTION No. 32/07)
During production of above mentioned product we do not use any SML specified catalyst and use antioxidant additive with SML = 6 mg/kg (CAS No.: 002082-79-3) according to MERCOSUR/GMC/RES. N° 39/19.
However, this product has not been tested according to these standards.

MOH, MOSH, MOAH, POH, POSH, POAH statement according to Commission Recommendation (EU) No 2017/84 (of 16 January 2017) on the monitoring of mineral oil hydrocarbons in food and in materials and articles intended to come into contact with food

Mineral oil hydrocarbons (MOH), Mineral oil saturated hydrocarbons (MOSH), mineral oil aromatic hydrocarbons (MOAH), polyolefin oligomeric saturated hydrocarbons (POSH) and polyolefin oligomeric aromatic hydrocarbons (POAH) are not used as direct additives. Polyolefin oligomeric hydrocarbons (POH) are present in polymer and represent the low molecular weight fraction.
However, we use white oil and vaselin than processing aids.
This product has not been tested for these chemical substances.

US FOOD AND DRUG ADMINISTRATION (FDA)

This product corresponds FDA (Food and Drug Administration of the USA) – Code of Federal Regulations – Title 21 § 177.1520 (a)(3)(i)(a1) related specification: 2.1 and 2.2

EUROPEAN PHARMACOPOEIA (EP) 3.1.3. POLYOLEFINES CHAPTER, 10TH EDITION

This product complies to EP requirements.

KUNSTOFFE Technische Wasser (KTW) declaration

This product is not tested for KTW recommendation.

Directive 2007/68/EC (27 November 2007) amending Annex IIIa to Directive 2000/13/EC regards certain food ingredients (Allergens)

We certify, that during manufacturing of this product, we do not use or intentionally incorporate into this product, any of the substances are listed in ANNEX IIIa of this directive. Therefore it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

Note: 2000/13/EC, 2003/89/EC, 2006/142/EC has been amended by 2007/68/EC

Regulation (EU) No 1169/2011 of the European Parliament and of the Council (25 October 2011) (on the provision of food information to consumers, amending Regulations (EC) No 1924/2006 and (EC) No 1925/2006 of the European Parliament and of the Council

We certify, that during manufacturing of this product, we do not use or intentionally incorporate into this product, any of the substances are listed this regulation. Therefore it is not reasonable to expect any of such substances to be present in this product.
Food allergens:

- peanuts, tree nuts (almonds, brazil nuts, chestnuts, filberts, hazelnuts, hickory nuts, macadamia nuts, pecans, pine nuts, pistachios, walnuts)
- milk and products thereof (including lactose)
- eggs
- soybeans
- shellfish
- crustaceans (shrimps, crabs, scallops, crayfishes, lobsters, oysters)
- molluscs (snails, squids, octopi, clams) and mollusc products

- sulphites
- food colourants
- celery and celery products
- wheat (gluten) and wheat products
- seeds (cotton, poppy, sesame, sunflower, mustard) and seed products
- aspartame
- monosodium glutamate (MSG)
- caffeine
- hydrogenated vegetable protein (HVP)
- grains (barley, oats, rye)
- lupine and lupine products

However, this product has not been tested for these chemical substances

POSH – Polyolefin Oligomeric Saturated Hydrocarbons, POMH – Polyolefin Oligomeric Mono-unsaturated Hydrocarbons

We certify, that during manufacturing of this product linear and branched alkanes (POSH – Polyolefin Oligomeric Saturated Hydrocarbons) and alkenes (POMH – Polyolefin Oligomeric Mono-unsaturated Hydrocarbons) are present in the polymer and represent the low molecular weight fraction. Cyclic or aromatic compounds were not found.

Directive 67/548/EEC (27 June 1967) with pertaining 29 amendments, Directive 1999/45/EC (31 May 1999) and Directive 1272/2008 (16 December 2008) relating to the classification, packaging and labelling of dangerous substances

This product is not classified as dangerous substance according to the Directive 67/548/EEC and 1999/45/EC, Legal Act of National Council of HU No. 2000/XXV. Law, Publication date: 26/04/2000, Reference: (MNE(2003)54491)
During the production of above mentioned product we do not use intentionally any carcinogenic, mutagenic or toxic substances (CMR substances) to reproduction according with the EC 1272/2008.

Note(1): 78/631/EEC; 88/379/EEC; 89/178/EEC; 90/492/EEC; 93/18/EEC; 96/65/EC has been repealed by Directive 1999/45/EC acc.to ANNEX VIII.
Note(2): 67/548/EEC and 1999/45/EC will be repealed by Directive 1272/2008/EC (16 Dec 2008) with effect from 1 June 2015

DECLARATION OF CODE OF FEDERAL REGULATIONS TITLE 16 CHAPTER II. CONSUMER PRODUCT SAFETY COMMISSION PART 1500 (HAZARDOUS SUBSTANCES AND ARTICLES)

This product is not classified as hazardous substance (see § 1500.3 Definitions) and does not contain any hazardous substances which are mentioned in CFR 16 Part 1500.

DIRECTIVE 94/62/EC (20TH OF DECEMBER 1994) ON PACKAGING AND PACKAGING WASTE AND ITS AMENDMENT 2004/12/EC, 2018/852/EC, 2005/20/EC (9 March 2005)

Heavy metals (like cadmium, lead, mercury,) and their compounds are not used in manufacturing of, and therefore are not expected to be present in the above mentioned polymer. Therefore, it can be declared that this product, as well as the product packaging material, is in compliance with the concentration levels of heavy metals specified in Article 11, item1 of EU-Directive 94/62/EC. This product meets requirements of less than 100 ppm for total incidental cadmium, chromium, lead and mercury. In addition, this product has the potential to be recycled according to these requirements. A special catalyst system is used for production of this product that contains hexavalent chromium therefore it is possible to detect Cr(III) content (< 10 ppm) in final product as catalyst residue.

Directive 76/768/EEC of 27 July 1976 on the approximation of the laws of the Member States relating to cosmetic products

We certify, that during manufacturing of this product, we do not use or intentionally incorporate into this product, any of the chemicals are listed ANNEX II and ANNEX III part 1 of this directive. Therefore it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

Regulation (EC) No. 1223/2009 of the European parliament and of the council of 30 November 2009 on cosmetic products

We confirm that this polymer meets the requirements of the 1223/2009/EC. However, this product has not been tested by Regulation (EC) 1223/2009.

Directive 76/769/EEC (27 July 1976) relating to restrictions on the marketing and use of certain dangerous substances and preparations and its amendments

Polychlorinated biphenyls (PCB) and Polychlorinated ter-phenyls (PCT) are not used in our production technologies and they are not intentionally incorporated into this polymer mentioned by EU-Directive 76/769/EEC. However, this product has not been tested for these chemical substances.

Note: Directive 76/769/EEC is superseded by Annex XVII of the REACH Regulation 1907/2006/EC - restrictions on the manufacturing, placing on the market and use of certain dangerous substances, preparations and articles

REGULATION (EC) NO 1005/2009 of the (16 September 2009) on substances that deplete the ozone layer ODS (Ozone Depleting Substances such as CFC's, HCFC's, Halons, CCl4, Trichloroethane, HBFC's)

We certify, that during manufacturing of this product, we do not intentionally incorporate into this product, any of the chemicals as restricted by this regulation. According to this fact it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

Note: Directive 2037/2000 EEC is repealed with effect from 01 January 2010.

Regulation (EC) No 2019/1021 (20 June 2019) on persistent organic pollutants

We certify, that during manufacturing of this product, we do not intentionally incorporate into this product, any of the chemicals as restricted by ANNEX I – IV. of this regulation. According to this fact it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

Directive 2005/84/EC relating to restrictions on the marketing and use of phthalates in toys and childcare articles

Phthalates such as DEHP, DBP, BBP, DINP, DIDP, DNOP are not used intentionally in manufacturing of, and therefore are not expected to be present in this polymer. This polymer corresponds with Directive 2005/84/EC of the European Parliament and of the Council of 14 December 2005.

Other Phthalates listed below are not in used intentionally in manufacturing of and therefore are not expected to be present in this polymer. However, this product has not been tested for these chemical substances.

- Di-benzyl phthalate
- Di-methyl phthalate
- Di-ethyl phthalate (DEP)
- Di-cyclo-hexyl phthalate (DCHP)
- Di-methoxyl-ethyl phthalate (DMEP)

- Di-methyl-cyclo-hexyl phthalate (DMCHP)
- Other phtalates

Directive 2011/65/EC (8 June 2011) on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS 2) and amendment 2015/863 (RoHS 3)

The composition of this product as supplied from our factory complies with the requirements for Directive 2011/65/EC (8 June 2011) on the restriction of the use of certain hazardous substances inelectrical and electronic equipment (RoHS 2) and it's amendment 2015/863 (RoHS 3).

Note: 2002/95/EC has been repealed by Directive 2011/65/EC (8 June 2011) with effect from 3 January 2013

California Propositions 65, List of Chemicals (18 December 2020)

This product complies to California Proposition 65 list requirements.
However, this product has not been tested for these chemical substances.

Directive 2000/53/EC (18 September 2000) on end-of life vehicles (ELV)

Heavy metals (like cadmium, lead, mercury,) and their compounds restricted by this regulation are not incorporated into this polymer intentionally during production.
A special catalyst system is used for production of this product that contains hexavalent chromium therefore it is possible to detect Cr(III) content (< 10 ppm) in final product as catalyst residue.

Directive 2012/19/EU of the european parliament and of the council of 4 July 2012 on waste electrical and electronic equipment (WEEE)

As the producer of the above mentioned product we confirm that our products meet the requirements of Waste Electrical and Electronic Equipment Directive (WEEE) (2012/19/EU).

GADSL Declaration

Hereby following substances are listed below which are indicated in Global Automotive Declarable Substance List (2020 GADSL v1.0, Released 01.02.2020) and they are present in this polymer product:
For the manufacturing of this grade a special catalyst system is used which contains hexavalent chromium, therefore it is possible to detect Cr(III) content (< 10 ppm) in final product as catalyst residue.
Note: in Aug 2005, VDA list of VDA 232-101 regulation (VDA = Verband der Automobilindustrie) has been replaced by the GADSL.

Flammability behavior

Information about flammability behavior: burning rate approx. 15,4 ± 1,3 mm/min (24 h/ 23 °C) and 14,5 ± 0,5 mm/ min. acc. to TL 1010 approx. 56 ± 12,73 mm/min (24 h/ 23 °C) acc. to UL 94:2017 horizontal burning test

Regulation (EC) No 1895/2005 (18 November 2005) on the restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food

- 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether, referred to as 'BADGE' (CAS No. 001675-54-3),
- bis(hydroxyphenyl)methane bis(2,3-epoxypropyl)ethers, referred to as 'BFDGE' (CAS No. 039817-09-9);
- other novolac glycidyl ethers, referred to as 'NOGE',

are not used in manufacturing of this product therefore it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

Directive 2003/11/EC (6 February 2003) on the marketing and use of certain dangerous substances and preparations (pentabromodiphenyl ether, octabromodiphenyl ether)

Dangerous substances pentaBDE (pentabromodiphenyl ether) and octaBDE (octabromodiphenyl ether) are not used in manufacturing of this product. Therefore it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

Directive 2009/48/EC (18 June 2009) on the safety of TOYS and EN 71-3 and EN 71-9

We certify, that during manufacturing of this product, we do not intentionally incorporate into this product, any of the chemicals as restricted by 2009/48/EC ANNEX II. Part III. Chemical properties Tables 11 and 13. According to this fact it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

Moreover EN 71- Part 9 (2005) "Organic chemical compounds - Requirements" (none of the substances listed in Tables 2 A-I are intentionally added). According to this fact it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.)

According to the best of our present knowledge of more polymer material produced by MOL Petrochemicals Co. Ltd. fulfills the requirements of European Standard EN 71 "Safety of Toys", Part 3 (2013) by Directive EU 2009/48/EC as amended in July 2013.

This product complies to European Standard EN 71 Part 3 requirements by analitycal test results.

TALLOW AND ITS DERIVATES (BSE/TSE)

The concerns relative to BSE/TSE in the context of plastics materials used in contact with food are linked to the use of additives of animal origin: tallow derivatives. Above mentioned polymer is not TSE/BSE dangerous product.

BIFMA (Business and Institutional Furniture Manufacturers Association) declaration

We certify, that during manufacturing of this product, we do not intentionally incorporate into this product, any of the chemicals as listed by BIFMA e3-2008 Furniture Sustainability Standard ANNEX B (Chemicals of concern list). According to this fact it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

NANOTECHNOLOGY

We certify, that during manufacturing of this product, we do not use Nanotechnology or nanomaterials according to COMMISION RECOMMENDATION 2011/696/EU (of 18 October 2011) on the definition of nanomaterial.

GMO declaration

We certify, that product does not intentionally contain any genetically modified organisms.

BfR (Bundesinstitut für Risikobewertung)

This product meets requirements given by BfR (Bundesinstitut fur Risikobewertung), III. Polyethylene Recommendation for the materials intended to come into contact with food.

DECLARATION OF OTHER CHEMICAL ELEMENTS

As a producer of this product we confirm that during production of this product we do not use below mentioned elements and their derivatives therefore are not expected to be present in this product. However, this product has not been tested for these.

- Antimony (Sb)
- Arsenic (As)

- Conflict minerals: Gold (Au), Tantalum (Ta), Tin (Sn), Tungsten (W)
- Halogens (fluor, brom, iod)
- Phosphorous (yellow and red)
- Rare Earth Elements
- Selenium (Se)
- Uranium (U)

We must call your attention that this product may contain chlorine compounds in negligible quantities (<100ppM)

DECLARATION OF OTHER SUBSTANCES

We certify, that during manufacturing of this product, we do not intentionally incorporate into this product, any of the chemicals are listed below and therefore are not expected to be present in this product. However, this product has not been tested for these chemical substances.

- Acetyl Acetone (ACAC) [CAS No. 123-54-6]
- 7-acetyl-6-ethyl-1,2,3,4-tetrahydro-1,1,4,4-tetramethylnaphthalene [CAS No. 88-29-9]
- Acenaphtylene [CAS No. 208-96-9]
- Acenaphthene [CAS No. 83-32-9]
- Acetaldehyde [CAS No 75-07-0]
- Acetyl tributyl citrate [CAS No. 77-90-7]
- Adipates
- Aflatoxin
- 4-Aminobiphenyl [CAS No. 92-67-1] and its salts
- Anthracen [CAS No. 120-12-7]
- Antrachinon [CAS No. 84-65-1]
- Acrylamide [CAS No. 79-06-1]
- Alcohols
- Alcoholic derivatives
- Aliphatic Sulphonate Compounds
- Aromatic Amines (restricted by Directive 2002/61/EC)
- Amonium Nitrate [CAS No. 6484-52-2]
- Asbestos [Chryolite CAS No. 12001-29-5], Amosite [CAS No. 12172-73-5], Anthophyllite [CAS No. 77536-67-5], Actinolite [CAS No. 77536-66-4], Tremolite [CAS No. 77536-68-6]
- Alkyl phenols (APs) derivatives like Ethoxylates (APEOs) and Amines
- Anthraquinone [CAS No 84-65-1]
- Artificial musks
- Azocolorants (restricted by Directive 2002/61/EC)
- Azodicarbonamide [CAS No. 123-77-3]

- Barium derivatives
- Benzalkonium chloride (BAC)
- Benzene [CAS No. 71-43-2]
- Benzidine [CAS No. 92-87-15] and its salts
- Benzoic Acid [CAS No. 65-85-0]
- Benzo[a]pyren (BaP) [CAS No. 50-32-8]
- Benzo[a]anthracene [CAS No. 56-55-3]
- Benzo[b]fluoranthene [CAS No. 205-99-2]
- Benzo[k]fluoranthene [CAS No. 207-08-9]
- Benzo[j]fluoranthene [CAS No. 205-82-3]
- Benzo(g,h,i)perylene [CAS No. 191-24-2]
- Benzo[e]pyrene [CAS No. 192-97-2]
- Benzotriazole [CAS No. 95-14-7]
- Benzophenone [CAS No. 119-61-9]
- Benzylbenzoate [CAS No.: 120-51-4]
- 2-(2H-benzotriazol-2-yl)-4,6-di-tert-butylphenol [CAS No 3846-71-7]
- Beryllium compounds (including: beryllium-oxide) and beryllium alloy
- Biocides
- Bisphenol A (BPA) [CAS No. 80-05-7], Bisphenol B (BPB) [CAS No. 77-40-7], Bisphenol F (BPF) [CAS No. 620-92-8] and Bisphenol S (BPS) [CAS No. 80-09-01]
- Bis(chloromethyl)ether (BCME) [CAS No. 542-88-1]
- Bis(2-butoxyethyl) adipate [CAS No. 141-18-4]
- 4,4'-Bis(diethylamino)benzophenone (DEAB) [CAS:90-93-7]
- Bis(2-ethylhexyl)-fumarate [CAS:141-02-6]
- Blue colorants
- BNST (Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene) [CAS No. 68921-45-9]
- Boric acid [CAS No. 10043-35-3]; borates and perborates
- Butyl acrylate [CAS No 141-32-2]
- Butylated Hydroxytoluene (BHT) [CAS No. 128-37-0]
- Butylated Hydroxyanisole (BHA) [CAS No. 25013-16-5]
- Catenex PH 941
- Cellulose Acetate [CAS No. 9004-35-7]
- Chlorinated alkyl benzenes (CABs)
- Chlorinated plastic
- Chrysene [CAS No. 218-01-9]
- Citrates
- Cobalt-dicloride [CAS No. 7646-79-9]

- Cumene [CAS No 98-82-8]
- Cyanuric acid (CYA) [CAS No 108-80-5]
- 1,2-Cyclohexane dicarboxylic acid diisononyl ester [CAS No. 166412-78-8]
- N-cyclohexyl-2-benzothiazolesulfenamide [CAS No 95-33-0]
- Decabromodiphenyl ether (DecaBDE) [CAS No 1163-19-15]
- 4,4'-diaminodiphenylmethane [CAS No. 101-77-9]
- 4,4'-diaminostilbene [CAS No. 54760-75-7]
- Dibenzo[a,h]anthracene [CAS No. 53-70-3]
- Dibenzothiazyl disulphide [CAS No 120-78-5]
- Dichlorodiphenyltrichloroethane [CAS No. 50-29-3]
- Di-2-ethylhexyl maleate (DEHM) [CAS No 142-16-5]
- 2,4-Diethyl-9H-thioxanthen-9-one (DETX) [CAS:82799-44-8]
- 2,2-Dimethoxy-2-phenylacetophenone (DMPA) [CAS:24650-42-8]
- Dimethylacetamide [CAS No. 127-19-5]
- Dimethylfumarate [CAS No. 624-49-7]
- Dimethylformamide (DMF) [CAS No. 68-12-2]
- Didecyl-dimethylammonium chloride DDAC [CAS No. 7173-51-5]
- Di-o-tolylguanidine (DOTG) [CAS No. 938-22-7]
- Dipentamethylenethiuram disulphide (PTD) [CAS No 94-37-1]
- 1,4-Dioxane [CAS No 123-91-1]
- Dioxin [CAS No. 290-67-5] and its derivatives
- Endocrine disruptors
- Endotoxin
- Epichlorhydrin [CAS No. 106-89-8]
- Epoxidised Soy-Bean Oil (ESBO)
- Ethylenediaminetetraacetic acid (EDTA) [CAS No. 60-00-4] and its salts
- Ethylene glycol dimethylacrilate (EGDMA) [CAS No. 97-90-5]
- Ethylene/methacrylic acid-Zincs copolymer
- Ethyl-acetone (methyl-propyl-ketone) [CAS No. 107-87-9]
- 2-Ethylanthraquinone [CAS:84-51-5]
- Ethylbenzene [CAS No 100-41-4]
- Ethyl 4-(dimethylamino) benzoate (EDMAB) [CAS:10287-53-3]
- 2-Ethylhexyl 4-(dimethylamino) benzoate (EDHAB) [CAS:21245-02-3]
- Ethylene-oxide [CAS No. 75-21-8
- 2-Ethylhexanoic acid [CAS No. 149-57-5]
- Fats
- Flame retardants (all)
- Fluoranthen [CAS No. 206-44-0]

- Fluoren [CAS No. 86-73-7]
- Fluoroelastomers
- Formaldehide [CAS No. 50-00-0]
- Fragrances
    - Allergenic fragrances (oak moss, tree moss, isoeugenol [CAS No. 97-54-1])
    - Hexyl cinnamaldehyde [CAS No. 101-86-0]
    - Cinnamyl alcohol [CAS No. 104-54-1]
    - Hydroxycitronellal [CAS No. 107-75-5]
    - Lyral (Hydroxymethylpentylcyclohexenecarboxaldehyde) [CAS No. 31906-04-4]
    - Majantol (trimethylbenzene propanol) [CAS No. 103694-68-4]
    - Furfural [CAS No. 98-01-1]
    - Lilial [CAS No. 80-54-6]
    - Coumarin [CAS No. 91-64-5]
- Fungicide
- Furan [CAS No. 110-00-09] and its derivatives
- Furfural [CAS No. 98-01-1]
- Glycerol [CAS No. 56-81-5]
- Glycols ethylene [CAS No. 107-21-1] and propylene [CAS No. 57-55-6]
- Glyoxal [CAS No 107-22-2]
- Halogenated HydroCarbons
- Herbicides
- Hexachlorobenzene (HCB) [CAS No. 118-74-1]
- Hexabromocyclododecane (HBCDD) [CAS No. 25637-99-4, 3194-55-6]
- 1-Hydroxycyclohexyl phenyl ketone (HCPK) [CAS: 947-19-3]
- 4-Hydroxybenzophenone (CAS No.: 1137-42-4)
- 2-Hydroxy-2-methylpropiophenone (HMPP) [CAS:7473-98-5]
- Indeno(1,2,3-c,d)pyrene [CAS No. 193-39-5]
- Insecticides
- N-Isopropyl-N´-phenyl-1,4-phenylenediamine [CAS No 101-72-4]
- Isopropyl thioxanthone (ITX) [CAS No. 83846-86-0]
- Lanoline [CAS No 8006-54-0]
- Latex and Natural rubbers
- Licareol (L-Linalool) [CAS No 126-91-0]
- Linalool [CAS No 78-70-6]
- Lithium Hydroxide (LiOH) [CAS No. 1310-65-2]
- Long-chain Perfluoroalkyl Carboxylates (LCPFACs)
- 2-mercaptobenzothiazole (MBT) [CAS No 149-30-4]
- Mineral oil aromatic hydrocarbones C>24 (MOAHs)

- Mineral oil saturated hydrocarbons from C10 to C40 (MOSHs)
- N-Methylpyrrolidone (NMP) [CAS No. 872-50-4]
- 4-Methylbenzophenone [CAS No.: 134-84-9]
- Musk xylene [CAS No. 81-15-2]
- Nanomaterials (including Nanoclay, Nanosilver)
- Naphthalene [CAS No. 91-20-3]
- 2-Naphthylamine [CAS No. 91-59-8] and its salts
- N-butanol [CAS No. 71-36-3]
- Neomycin [CAS No 1404-04-2]
- N-Ethyl-o-toluenesulfonamide (NETSA) [CAS No. 1077-66-1]
- N-Ethyl-p-toluenesulfonamide [CAS No. 80-39-7]
- Ni and Ni-compounds
- Nickel titanium oxide [CAS No. 12035-39-1]
- Nitrosamines
- Nitrilotriacetic acid, NTA [CAS No. 139-13-9]
- Nitrite derivatives
- Nonylphenoxypoly(ethyleneoxy)ethanol [CAS No. 9016-45-9]
- 1-Nitropropane [CAS No. 108-03-2]
- 2-Nitropropane [CAS No. 79-46-9]
- 4-Nitro-BiPhenyl [CAS No. 92-93-3]
- Melamine [CAS No. 108-78-1]
- Methylene-Diphenyl-Diisocyanate (MDI) [CAS No. 101-68-8]
- Mycotoxin
- Nonylphenol ethoxylates
- Novolac glycidyl ether
- Octylphenols [CAS No. 27193-28-8] and Nonylphenol [CAS No. 25154-52-3]
- Oleamide [CAS No 301-02-0]
- o-Phenylphenol (OPP) [CAS No. 90-43-7]
- Oxalic Acid [CAS No. 144-62-7] and its derivatives
- PALM oil, Coconut Oil and Palm Kerner Oil
- Parabenes (Esters of Para-hydroxybenzoic-acid)
- PentaBDE [CAS No 32534-81-9] (pentabromodiphenyl ether) and octaBDE [CAS No 32536-52-0] (octabromodiphenyl ether)
- Pentachlorophenol (PCP) [CAS No. 87-86-5]
- Perfluoroalkyl Sulfonate (PFAS)
- Perfluorooctane sulfonate (PFOS) [CAS No. 1763-23-1]
- Perfluorooctanoic acid (PFOA) [CAS No. 335-67-1]
- Perfluorinated carboxylic acids (PFCAs)

- Perfluoro-alkyl- phosphate esters (PAPs)
- Perfume
- Pesticides
- Persistent and very bioaccumulative (vPvB) substances
    - Trichloroethylene [CAS No. 79-01-6]
    - Chromium trioxide [CAS No. 1333-82-0]
    - Acids generated from chromium trioxide and their oligomers,
    - Sodium dichromate [CAS No. 10588-01-9]
    - Ammonium dichromate [CAS No. 7789-09-5]
    - Potassium dichromate [CAS No. 7778-50-9]
    - Cobalt(II) sulphate [CAS No. 10124-43-3]
    - Cobalt dichloride [CAS No. 7646-79-9]
    - Cobalt(II) carbonate [CAS No. 513-79-1]
    - Cobalt(II) diacetate [CAS No. 71-48-7]
- Phenanthren [CAS No. 85-01-8]
- Phenol [CAS No. 000108-95-2] and its derivatives
- Phthalic Anhydride [CAS No. 85-44-9]
- P-Hydroxybenzoic Acid [CAS No. 99-96-7]
- Pigment Green 50 [CAS No. 68186-85-6]
- Plasticizers
- Polyacrylonitrile (PAN) [CAS No 25014-41-9]
- Polyamide-6
- Polychlorinated Biphenyls (PCBs)
- Polybrominated Biphenyls (PBBs)
- Polychlorinated Dibenzodioxin (PCDDs)
- Polychlorinated Furanes (PCDFs)
- Polychlorinated Terphenyls (PCTs)
- Polybrominated Diphenyl Ethers (PBDEs)
- Polybrominated Terphenyls (PBTs)
- Polycyclic aromatic hydrocarbons (PAHs)
- Polystyrene [CAS No 9003-53-6]
- Polystyrene resin
- PolytetrafluoroEthylene (PTFE, TEFLON) [CAS No. 9002-84-0]
- Preservative / disinfectant
    - 2-Chloroacetamide [CAS No. 79-07-2]
    - Chlorphenesin [CAS No. 886-74-8]
    - Climbazole [CAS No. 38083-17-9]
    - Ethyl Lauroyl Arginate-HCl [CAS No. 60372-77-2]

  - Isothiazolinone [CAS No. 1003-07-2]
  - Methylisothiazolinone [CAS No.2682-20-4]
  - Methylchloroisothiazolinone [CAS No. 26172-55-4]
  - Benzisothiazolinone [CAS No. 2634-33-5]
  - o-Phenylphenol [CAS No. 90-43-7]
- Proteines
- PVC [CAS No. 9002-86-2] and PVDC [CAS No. 9002-85-1]
- Pyrene [CAS No. 129-00-0]
- Quaternary Ammonium Compounds
- Radioactive substances/elements
- Recycled material
- Rosin from wood [CAS No. 8050-09-7]
- Rubber (Synthetic and Natural)
- Semicarbazide [CAS No. 57-56-7]
- Short Chain Chlorinated Parrafins (SCCP) [CAS No. 85535-84-8]
- Silicone [CAS No. 90337-93-2] and silica gel [CAS No. 99439-28-2]
- Siloxane D4 [CAS No. 556-67-2]
- Siloxane D5 [CAS No. 541-02-6]
- Softeners
- Styrene [CAS No. 100-42-5]
- Sulfates
- Vinyl Chloride [CAS No. 75-01-4]
- Tannic acid [CAS No. 1401-55-4]
- Tartrazine [CAS No. 1934-21-0]
- TBT (Tributyl-tin), DBT (dibutyl-tin) and MBT (monobutyl-tin) and dioctyltin compounds (DOT) and other organo-tin compounds
- Tetrabromobisphenol A (TBBPA) [CAS No.: 79-94-7]
- Tetrachloroethene (PERC) [CAS No.: 127-18-4]
- Tetraethyleneglycol dimethacrylate (TEGDMA) [CAS No. 109-16-0]
- Titanium acetyl acetonate (TAA) [CAS No.: 17501-79-0]
- Trans-2 nonenal [CAS No. 18829-56-6]
- Trichlorbenzene [CAS No. 12002-48-1]
- Trichloroethene (TCE) [CAS No. 79-01-6]
- Triclosan [CAS No. 3380-34-5]
- Triethanolamine [CAS No. 102-71-6]
- Trikesylphosphate, Tritolyl phosphate [CAS No. 78-30-8]
- Trioxide D'antimoine (CAS-Nr. 1309-64-4)
- Tris (nonylphenyl) phosphite (TNPP) [CAS No.: 3050-88-2]

- Tris(2-butoxyethyl) phosphate (TBEP) [CAS No. 78-51-3]
- Toluene [CAS No. 108-88-3]
- UV Filters
    - 2,2'-Methylene-bis-(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol) (MBBT) [CAS No. 103597-45-1]
    - Camphor Benzalkonium Methosulfate [CAS No. 52793-97-2]
    - 3-benzylidene-camphor [CAS No. 15087-24-8]
    - Benzophenone-1 / -2 / -3 [CAS No. 92092-63-2, 131-55-5, 131-57-7]
    - Ethylhexyl-Methoxycinnamate (OMC) [CAS No. 5466-77-3]
    - Octocrylene, Etocrylene [CAS No. 6197-30-4, 5232-99-5]
    - Homosalate [CAS No. 118-56-9]
    - 4-Methylbenzylidene Camphor (MBC) [CAS No. 36861-47-9]
    - Octyl-Dimethyl-p-Aminobenzoic-Acid (OD-PABA) [CAS No. 58817-05-3]
- Xenohormones
- Xylenes [CAS No. 1330-20-7]
- sum of Benzophenone + 4-Methylbenzophenone + 4-hydroxybenzophenone [CAS:119-61-9; 134-84-9; 1137-42-4]

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