

POLIETILÉN TIPELIN 6300B

HDPE fúvási típus

TERMÉKLEÍRÁS

TIPELIN 6300B nagysűrűségű, bimodális polietilén butén-1 kopolimer. Nagy merevséggel és jó feszültségkorróziós ellenállással (ESCR) rendelkező fúvott termékek előállítására alkalmas típus. Antioxidáns és savmegkötő adalékrendszerrel rendelkezik.

ALKALMAZÁSI TERÜLET

TIPELIN 6300B típus vékonyfalú, kisebb térfogatú, háztartási vegyszerek (pl. mosószerek, tisztítószer, kozmetikumok stb.), valamint UN engedélyhez kötött agresszív ipari vegyszerek tárolására alkalmas termékek előállítására ajánlott 10 liter térfogatig. Továbbá alkalmas korrugált csövek előállítására is.

Az itt felsorolt alkalmazások csak ajánlások, nem nyújt garanciát. A végfelhasználónak a kötelessége azon vizsgálatok elvégzése, amely megállapítja, hogy az adott polimer alkalmas-e a tervezett felhasználásra. Ide tartozik a végtermékekre vonatkozó előírásoknak a megfelelési vizsgálata is pl. élelmiszerrel való érintkezés. Termékbiztonsággal kapcsolatos további információkért, kérjük tekintse meg a megfelelési nyilatkozatot (DDS).

A TERMÉK MEGFELELŐSÉGE

Lásd a Megfelelési nyilatkozatot (DDS).

FIZIKAI TULAJDONSÁGOK*

Paraméter	Megjegyzés	Vizsgálati módszer	Mértékegység	Tipikus érték
MFR - Folyásindex (190°C, 2,16 kg)	-	ISO 1133-1	g/10 perc	0,3
MFR - Folyásindex (190°C, 5 kg)	-	ISO 1133-1	g/10 perc	1,3
MFR - Folyásindex (190°C, 21,6 kg)	-	ISO 1133-1	g/10 perc	30
Sűrűség (23°C)	3	ISO 1183-2	kg/m³	954
Húzófeszültség folyáshatárnál	3	ISO 527-3	MPa	28
Nyúlás folyáshatárnál	3	ISO 527-3	%	10
Szakítószilárdság	3	ISO 527-3	MPa	20
Szakadási nyúlás	3	ISO 527-3	%	1100
Rugalmassági modulusz (hajlításból)	3	ISO 178	MPa	1500
Izod ütőszilárdság (bemetszett, 23°C)	3	ISO 180/A	kJ/m²	8,5
Shore D keménység	3	ISO 868	-	65
Vicat lágyulási hőmérséklet	3	ISO 306/A 120	°C	128
ESCR F50 B (10% Igepal CO-630)	3	ASTM D1693	óra	350
OIT - Oxidációs indukciós idő (200°C)	-	EN 728	perc	30
Ajánlott feldolgozási hőmérséklet	-	-	°C	180 - 220

*A megadott adatok nem garantált értékek.

(3) ISO 293 szabvány szerint préselt lapból készített, ISO 291 szabvány szerint kondicionált próbatesteken végzett mérések átlagértékei.

FELDOLGOZÁS

TIPELIN 6300B szokásos feldolgozó gépeken problémamentesen feldolgozható.

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TÁROLÁS

A granulátum 25 kg-os polietilén zsákokban kerül kiszerezésre. Szállításuk zsugor- vagy sztreccs-csomagolással biztosított raklapokon történik, a rakománysúly 1375 kg polimer. A zsákok között ragasztóanyag található, ezzel elkerülhető a zsákok egymáson történő elcsúszása. A raklapról történő lerakodás során javasoljuk ezt figyelembe venni. A zsákok lerakodása során javasoljuk előbb felemelni a zsákot, majd csak ezt követően elforgatni és elvenni. A hőkezelt raklapokat a PRS, a Faber Halbertma csoport tagja biztosítja, egy olyan gyűjtőrendszert üzemeltetve, amely használat után összegyűjti a raklapokat, és megszervezi az újrafelhasználást a fenntartható, körkörös rendszer részeként. A PRS raklapok mindig a PRS tulajdonát képezik. Ezen felül közúti vagy vasúti silós kiszállításra is van mód. További részletes információért keressék a SLOVNAFT a.s. és a MOL Petrolkémia Zrt. kereskedelmi képviselőit.

Mivel a polietilén éghető anyag, figyelembe kell venni raktározása során az éghető anyagokra vonatkozó tűzvédelmi szabályokat. Amennyiben a polimert nagy páratartalmú és változó hőmérsékletű körülmények között tárolják, akkor a légkör nedvességtartalma lecsapódhat a csomagolás belső oldalán. Amennyiben ez megtörténik, ajánlatos a granulátumot feldolgozás előtt megszáritani. Tárolás alatt óvni kell a polietilént az UV sugárzástól és a 40 °C feletti hőmérséklettől, illetve távol kell tartani a közvetlen lángtól és az egyéb gyújtóforrásoktól. A gyártó nem vállal felelősséget a nem megfelelő tárolás okozta károsodásért.

REACH NYILATKOZAT

A polimerek nem tartoznak REACH regisztrációs kötelezettség alá. Mindazonáltal a gyártáshoz használt nyersanyagokat (monomerek, katalizátorok és az érintett alapanyagok) regisztráltuk. A MOL Petrolkémia Zrt. teljes mértékben aláveti magát ezen törvényeknek, és csak a REACH-nek megfelelő alapanyagokat használ a gyártás során. Jelenlegi TIPELIN típusaink nem tartalmaznak 0,1%-nál nagyobb mennyiségben ún. különös aggodalomra okot adó (SVHC) anyagokat.

ÚJRAFELDOLGOZÁS

A Polietilént megfelelő tisztítási és előkészítési folyamatok után különösebb nehézség nélkül újra fel lehet dolgozni. Mivel az újra feldolgozott polimer az előző feldolgozás során már egyszer termikus degradációnak volt kitéve, ezért az újrafeldolgozás során a mechanikai tulajdonságai megváltozhatnak. Ezért célszerű megvizsgálni, hogy az újrafeldolgozás milyen hatást gyakorol a végtermék minőségére.

BIZTONSÁGI ELŐÍRÁSOK

Lásd a Biztonsági adatlapot.

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NYILATKOZAT

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** 13000109 - ROMBEST®WHITE 161NG
- Other means of identification:**
- UFI: not applicable
Product description: Mixture
Chemical composition: Mixture of additives and pigments dispersed in PE - see the Technical Specification for more information.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- Relevant uses: Mixture composed of polymers, pigments/colorants and additives. For industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
- Romcolor 2000 SA
Intrarea Salcamului
077006 Copăceni - Ilfov - Romania
Phone: +40213166920 - Fax: +40213166927
service@romcolor.ro
www.romcolor.ro
- 1.4 Emergency telephone number:** Bucharest Emergency Clinic Telephone (can be called permanently, 24 hours a day): 0215992300, ext. 182, 444, 213, 455 *Other bodies responsible for receiving health information: Targu Mures County Emergency Clinic Direct phone: 0265 210 110 Central phone (can be called permanently, 24h/7d): 0372 653 100; 0372 683 700; 0265 212 111 Other institutions (child poisoning): Grigore Alexandrescu Children's Hospital, Bucharest TOXAPEL Telephone (24h/24h): 021 2106282; 021 2106183

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
- Due to the inclusion of the active ingredient(s) in a polymeric matrix that totally encapsulates them, it is anticipated that they should not present a hazard in the form in which they are delivered.(this criterion prevails throughout the processing of the SDS)
- CLP Regulation (EC) No 1272/2008:**
- The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.
- 2.2 Label elements:**
- Metals in massive form, alloys, mixtures containing polymers and mixtures containing elastomers do not require a label if they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market, although classified as hazardous.
- CLP Regulation (EC) No 1272/2008:**
- Hazard statements:**
- Not relevant
- Precautionary statements:**
- Not relevant
- Supplementary information:**
- EUH210: Safety data sheet available on request.
- 2.3 Other hazards:**
- Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substance:**
- Non-applicable
- 3.2 Mixture:**
- Chemical description:** polymer matrix
- Components:**
- None of the substances contained in the mixture are above the limits specified in Annex II of Regulation (EC) No 1907/2006

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

The possibility of being inhaled is practically nil, however, in the case of symptoms:

In case of symptoms, move the person affected into fresh air.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 5 °C
Maximum Temp.: 40 °C
Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

Other information:

The product must be kept in the original packaging in closed spaces for a maximum of 12 months in a dry environment of approximately 25°C.

If this masterbatch is stored in conditions of high humidity and fluctuating temperatures, then the atmospheric humidity can condense on the inner part of the bags. If this happens, it is recommended to dry the granules before use.

During storage, the masterbatch must not be exposed to UV radiation and temperatures higher than 40°C.

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Due to the inclusion of the active ingredient(s) in a polymeric matrix that totally encapsulates them, it is anticipated that they should not present a hazard in the form in which they are delivered.(this criterion prevails throughout the processing of the SDS)

Nuisance dust: Inhalable dust 10 mg/m³ // Respirable dust 4 mg/m³

DNEL (Workers):

Not available

DNEL (General population):

Not available

PNEC:

Not available

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Compulsory use of face mask	Filter mask for particles	 CAT III	EN 149:2001+A1:2009	Replace when an increase in resistance to breathing is observed.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks	 CAT I		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN ISO 21420:2020 and EN ISO 374-1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	 CAT II	EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	 CAT I		Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes	 CAT II	EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

F.- Additional emergency measures

It is not necessary to take additional emergency measures.

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	0 % weight
V.O.C. density at 20 °C:	0 kg/m ³ (0 g/L)
Average carbon number:	Not available
Average molecular weight:	Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

*Not available due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:	Solid
Appearance:	Pellets
Colour:	☐ White
Odour:	Not available
Odour threshold:	Not available *

Volatility:

Boiling point at atmospheric pressure:	Not available *
Vapour pressure at 20 °C:	Not available *
Vapour pressure at 50 °C:	Not available *
Evaporation rate at 20 °C:	Not available *

Product description:

Density at 20 °C:	1917,2 kg/m ³
Relative density at 20 °C:	1,917
Dynamic viscosity at 20 °C:	Not available *
Kinematic viscosity at 20 °C:	Not available *
Kinematic viscosity at 40 °C:	Not available *
Concentration:	Not available *
pH:	Not available *
Vapour density at 20 °C:	Not available *
Partition coefficient n-octanol/water 20 °C:	Not available *
Solubility in water at 20 °C:	Not available *
Solubility properties:	Not available *
Decomposition temperature:	Not available *
Melting point/freezing point:	Not available *

Flammability:

Flash Point:	Non-applicable
Flammability (solid, gas):	Not available *
Autoignition temperature:	Not available *
Lower flammability limit:	Not available *
Upper flammability limit:	Not available *

Explosive (Solid):

Lower explosive limit:	Not available *
Upper explosive limit:	Not available *

Particle characteristics:

Median equivalent diameter:	Not available *
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9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Not available *
Oxidising properties:	Not available *
Corrosive to metals:	Not available *
Heat of combustion:	Not available *

*Not available due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Aerosols-total percentage (by mass) of flammable components: Not available *

Other safety characteristics:

Surface tension at 20 °C: Not available *

Refraction index: Not available *

*Not available due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

LD50 oral > 2000 mg/kg (rat)

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met

B- Inhalation (acute effect):

Due to the inclusion of the active ingredient(s) in a polymeric matrix that totally encapsulates them, it is anticipated that they should not present a hazard in the form in which they are delivered.(this criterion prevails throughout the processing of the SDS)

- Acute toxicity : Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met
- Contact with the eyes: Based on available data, the classification criteria are not met

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met
IARC: Titanium dioxide (2B)
- Mutagenicity: Based on available data, the classification criteria are not met
- Reproductive toxicity: Based on available data, the classification criteria are not met

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met
- Skin: Based on available data, the classification criteria are not met

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met
- Skin: Based on available data, the classification criteria are not met

H- Aspiration hazard:

Based on available data, the classification criteria are not met

Other information:

Not relevant

Specific toxicology information on the substances:

Not available

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not relevant

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met

12.1 Toxicity:

Not available

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not available

12.4 Mobility in soil:

Not available

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 03 06	organic wastes other than those mentioned in 16 03 05	Non-hazardous

Type of waste (Regulation (EU) No 1357/2014):

- CONTINUED ON NEXT PAGE -

SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Not relevant

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport (ADR/RID,IMDG,IATA)

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Not relevant

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Not relevant

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Not relevant

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Not relevant

Classification procedure:

Not relevant

Advice related to training:

- CONTINUED ON NEXT PAGE -

SECTION 16: OTHER INFORMATION (continued)

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -

DECLARATION DATA SHEET

Polyethylene TIPELIN 6300B

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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GENERAL PROPERTIES

Characteristics: High density bimodal polyethylene copolymer granulate intended for blow moulding application

Used monomer: ethylene (CAS No.: 74-85-1)

Used comonomer: 1-Butene (CAS No.: 106-98-9)

Applied catalyst system: non-phthalate Ziegler-Natta

License: Mitsui

Manufacturer: MOL Petrochemicals Co. Ltd./ TISZAÚJVÁROS

FOOD CONTACT APPLICATION

EUROPEAN UNION FOOD CONTACT STATUS

This product complies with the relevant requirements of:

Commission Regulation (EC) No 1935/2004

The organoleptic characteristics of food contact materials are influenced by converting conditions, time and temperature of storage and type of food, therefore compliance with article 3 §1,c must be verified and tested by the producer of the final packaging material.

Commission Regulation (EC) No 2023/2006 (of 22 December 2006) on good manufacturing practice for materials and articles intended to come into contact with food as amended, applicable to intermediate materials (e.g. plastic granules, plastic flakes). We declare that production of this product runs under established, implemented and observed effective and documented quality assurance system certified by ISO 9001, ISO 14001 and OHSAS 18001 so that, under normal or foreseeable conditions of use, its constituents cannot 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 properties. We fulfil the general rules on GMP as laid down in the 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 (of 16 December 1999) on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmosphere.

Commission Regulation (EU) No 10/2011 (of 14 January 2011) on plastic materials and articles intended to come into contact with food, as last amended and consolidated on 16 March 2025. This consolidated version includes, among other regulations, the following: Commission Regulation (EU) 2020/1245 of 2 September 2020 and Commission Regulation (EU) 2025/351 of 21 February 2025.

The monomers and additives used in our production are listed in the Union List of Authorized substances in ANNEX I and ANNEX II of Regulation (EU) No 10/2011 and based on this we comply with the requirements of this regulation.

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Based on migration experiments with test samples made of this polymer and carried out in the presence of the standard food simulants A (10% ethanol), B (4% acetic acid) and D2 (olive oil) 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. Results from the tested OM2 condition represents Intended food contact conditions for any long term storage at room temperature or below, including heating up to 70 °C for up to 2 hours, or heating up to 100 °C for up to 15 minutes.

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 (OML) from finished food contact material or article. In accordance with EU-Directive 10/2011/EC the OML and specific migration limits (SMLs, if applicable) 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.

However, the measurement of Non-Intentionally Added Substances (NIAS) is currently ongoing. There is a transitional period until 16 September 2026, NIAS test results for Polyethylene TIPELIN 6300B will be available from April 2026 at the earliest. After that, we will be able to provide more accurate information regarding the requirement of high degree of purity.

Specific Migration Limit (SML) requirements according to Commission Regulation (EU) No 10/2011

This product does not contain monomers, additives or components which have SMLs or QMAs as specified by Regulation 10/2011/EC, ANNEX I. Based on migration experiments with test samples made of this polymer we confirm that specific migration limits of Metals and PAA in simulant A (4% acetic acid), at 60°C/10 days meet requirements given by COMMISSION REGULATION (EU) No 10/2011 of 14 January 2011 ANNEX II.

Dual Use Additives

The information provided concerning additives which are also food additives and flavoring is based on our current knowledge. Ca-stearate (CAS No.:1592-23-0, Ref. No.: 89040 Ca-salts) as E 470a used max. 800 ppm.

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.

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Commission 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 declare that during manufacturing of this product, we do not use or intentionally incorporate into this product any of the substances listed in 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 presence of above mentioned substances.

REGULATION (EU) No 1169/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 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, and repealing Commission Directive 87/250/EEC, Council Directive 90/496/EEC, Commission Directive 1999/10/EC, Directive 2000/13/EC of the European Parliament and of the Council, Commission Directives 2002/67/EC and 2008/5/EC and Commission Regulation (EC) No 608/2004

We certify, that during manufacturing of this product, we do not use or intentionally incorporate into this product, any of the substances which are listed in ANNEX II 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.

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Commission Regulation (EC) No 1895/2005 (of 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 presence of these chemical substances.

MOH, MOSH, MOAH, POH, POSH, POAH, POMH 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 as processing aids. This product has not been tested for these chemical substances.

Substances of animal origin

We declare, that during manufacturing of this product we use animal origin substances.

Tallow and its derivatives (BSE/TSE)

The concerns relative to BSE/TSE in the context of plastic 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.

GMO (GENETICALLY MODIFIED SUBSTANCES)

We declare that during manufacturing of this product we do not intentionally add genetically modified substances.

Kosher and Halal certification

This product is not Kosher and Halal certified.

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BfR (Bundesinstitut für Risikobewertung) III. Polyethylene

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

Swiss Ordinance

We confirm that the above mentioned product complies with Swiss ordinance 817.023.21. During production of above mentioned product we do not use any SML specified monomer or other starting substances, do not use any SML specified catalyst and do not use any SML specified additives according to Swiss ordinance 817.023.21. (last amendment on 1 February 2024).

Considering the above matter-of-fact it is not reasonable to expect any of such substances to be present in above mentioned product.

However this product has not been tested specifically to comply with Swiss guideline 817.023.21.

US FOOD AND DRUG ADMINISTRATION (FDA)

The base resin corresponds requirements given by FDA Title 21 CFR (Code of Federal Regulations) § 177.1520 Indirect food additives: Polymers: Olefin polymers (a)(3)(i)(c1):

2.1. Polyethylene for use in articles that contact food except for articles used for packing or holding food during cooking and

2.2. Polyethylene for use in articles used for packing or holding food during cooking.

FOOD CONTACT CHINA

We declare that the above mentioned product, based on its recipe is compliant with the requirements for Chinese food contact standard:

- GB 4806.1-2016: General Safety Requirements on Food Contact Materials and Articles
- GB4806.7-2023 Plastic Materials and Articles in Contact with Food
- GB 9685-2016: Standard for the Use of Additives in Food Contact Materials and Articles

Additives used in production of this grade are listed in Appendix A (Allowable Additives with Their Using Requirements) with no specific migration limits. We do not use any additives listed in Appendix B (Total Specific Migration Limit). We do not use any additives with metallic elements with special migration limits in Appendix C (Special Limitation of Metallic Elements).

FOOD CONTACT JAPAN

We declare that under the Positive List System for Food Utensils, Containers and Packaging of the Food Sanitation Law of Japan from 06 March 2023:

- Used polymer matrix is listed in Table 1 (list of polymers) and can be used in all food contact applications.
- Intentionally added polymer additives are listed in Table 2 (list of additives) and are present in the final product in concentrations not exceeding the specified limits.

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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 grade we do not use any SML specified monomer or other starting substances.

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 do not use any SML specified additives according to MERCOSUR/GMC/RES. N° 39/19.

However, this product has not been tested according to these standards.

Brazilian Mercosur

We confirm that this product is in compliance with the Brazilian standards:

- Resolution No. 56 of 19 May 2023, provides on the positive list of monomers, other initiators and polymers authorised for the preparation of plastic packaging and equipment in contact with food
- Resolution - RDC No. 17 of 4 December 2019 provides on technical regulation on positive list of additives for plastic materials for the development of packaging and equipment in contact with foods

However, this product has not been tested according to these standards.

ADDITIONAL COMPLIANCE

U.S. Environmental Protection Agency's Toxic Substances Control Act (TSCA) Inventory

We confirm that the main components of the above mentioned product are listed on U.S. Environmental Protection Agency's Toxic Substances Control Act (TSCA) Inventory.

WEEE

We declare that this product is not classified as electric and electronic equipment (EEE) by DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE). However, the substances, mixtures and components specified for

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selective treatment in ANNEX VII of this regulation are not intentionally added into this product or are not a part of this product.

Regulation (EC) No 1272/2008 (of 16 December 2008) on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006

CLP – Classification, Labelling and Packaging regulation

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 production of this product we do not intentionally use any carcinogenic, mutagenic or toxic and reprotoxic substances (CMR substances) in accordance with 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.

European Parliament and Council Directive 94/62/EC (of 20 December 1994) on packaging and packaging waste and its amendments 2005/20/EC and 2013/2/EU

Based on the available documentation from raw materials suppliers and test results, this grade complies with the Directive 94/62/EC and it's following amendments concerning the defined limits of heavy metals. This product meets requirements of less than 100 ppm for total incidental cadmium, lead, mercury, hexavalent chromium (CrVI). In addition, this product has the potential to be recycled according to these requirements.

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). Waste of this product is not hazardous and can be re-processed by recycling and reused as raw material.

Directive 76/768/EEC of 27 July 1976 on the approximation of 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 chemicals listed in 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 presence of these chemical substances.

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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 requirements of Regulation No 1223/2009/EC.
However, this product has not been tested according to requirements of Regulation (EC) 1223/2009.

Regulation (EU) 2024/590 of the European parliament and of the council of 7 February 2024 on substances that deplete the ozone layer and repealing Regulation (EC) No 1005/2009 (Ozone Depleting Substances such as CFC's, HCFC's, Halons, CCl₄, Trichloroethane, HBFC's)

We declare, 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.

Regulation (EC) No 2019/1021 (of 20 June 2019) on persistent organic pollutants, as last amended and consolidated on 3 December 2025

We declare that during manufacturing of this product we do not intentionally incorporate into this product any of the chemicals restricted by ANNEX I – IV. of this regulation (see table below). According to this fact it is not reasonable to expect any of such substances to be present in this product.

Substance	CAS No
2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol	25973-55-1
Aldrin	309-00-2
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	85535-84-8 and others
Chlordane	57-74-9
Chlordecone	143-50-0
DDT (1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane)	50-29-3
Decabromodiphenyl ether (c-decaBDE)	1163-19-5
Dechlorane Plus (includes its syn-isomer and anti-isomer)	13560-89-9
	135821-03-3
	135821-74-8
Dicofol	115-32-2
Dieldrin	60-57-1
Endosulfan	959-98-8
	115-29-7
	33213-65-9
Endrin	72-20-8
Heptabromodiphenyl ether	68928-80-3 and others
Heptachlor	76-44-8
Hexabromobiphenyl	36355-01-8
Hexabromocyclododecane and its diastereoisomers	25637-99-4
(alpha-hexabromocyclododecane, beta-hexabromocyclododecane,	3194-55-6
gamma-hexabromocyclododecane)	134237-50-6

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	134237-51-7
	134237-52-8
Hexabromodiphenyl ether	36483-60-0 and others
Hexachlorobenzene (HCB)	118-74-1
Hexachlorobutadiene (HCBD)	87-68-3
	58-89-9
Hexachlorocyclohexanes, including lindane	319-84-6
	319-85-7
	608-73-1
	72-43-5
	30667-99-3
	76733-77-2
Methoxychlor	255065-25-9
	255065-26-0
	59424-81-6
	1348358-72-4
	and others
Mirex	2385-85-5
Pentabromodiphenyl ether	32534-81-9 and others
Pentachlorobenzene (PeCB)	608-93-5
	87-86-5
Pentachlorophenol and its salts and esters	and others
Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds	355-46-4 and others
	1763-23-1
	2795-39-3
	29457-72-5
	29081-56-9
	70225-14-8
Perfluorooctane sulfonic acid and its derivatives (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOS-F) and others	56773-42-3
	251099-16-8
	4151-50-2
	31506-32-8
	1691-99-2
	24448-09-7
	307-35-7 and others
Perfluorooctanoic acid (PFOA), its salts and PFOA related compounds	335-67-1 and others
Polychlorinated Biphenyls (PCB)	1336-36-3 and others
Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF) and dioxin-like polychlorinated biphenyls (dl-PCBs)	-
Polychlorinated naphthalenes	70776-03-3 and others
Polycyclic aromatic hydrocarbons (PAHs)	
Tetrabromodiphenyl ether	40088-47-9 and others
Toxaphene	8001-35-2

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However, this product has not been tested for presence of above mentioned substances.

Directive (EU) 2019/904 of the European Parliament and of the Council (of 5 June 2019) on the reduction of the impact of certain plastic products on the environment

We declare that this product complies with the requirements of Directive (EU) 2019/904 of the European Parliament and of the Council (of 5 June 2019) on the reduction of the impact of certain plastic products on the environment.

We confirm that during the manufacturing, we do not intentionally use that include additives which, through accelerate the oxidation, lead to the fragmentation of the plastic material into micro-fragments or to chemical decomposition according to the requirements DIRECTIVE (EU) 2019/904.

However, this product has not been tested according to this directive.

Directive No 2011/65/EC (of 8 June 2011) on the restriction of the use of certain hazardous substances in electrical and electronic equipment, as last amended and consolidated on 1 January 2025.

RoHS regulation refers to electrical and electronic equipment and not specifically to plastic raw material. Based on the available documentation from raw materials suppliers this product complies with the Directives concerning the limits of heavy metals and substances mentioned in table below. Heavy metals and chemical substances restricted by these directives are not incorporated into this polymer intentionally during the production. However, this product has not been tested according to specific requirements of Directive No 2011/65/EC.

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

Substance/Element	Limit [%]	CAS No
Lead (Pb)	0,1	7439-92-1
Cadmium (Cd)	0,01	7440-43-9
Hexavalent chromium (Cr ^{VI})	0,1	18540-29-9
Mercury (Hg)	0,1	7439-97-6
Polybrominated biphenyls (PBB)	0,1	-
Polybrominated diphenyl ethers (PBDE)	0,1	-
Bis(2-ethylhexyl) phthalate (DEHP)	0,1	117-81-7
Butyl benzyl phthalate (BBP)	0,1	85-68-7
Dibutyl phthalate (DBP)	0,1	84-74-2
Diisobutyl phthalate (DIBP)	0,1	84-69-5

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Directive No 2000/53/EC (of 18 September 2000) on End-of-Life Vehicles (ELV)

Heavy metals like cadmium, lead, mercury, hexavalent chromium (CrVI) and their compounds restricted by this regulation are not incorporated into this polymer intentionally during production. However, this product has not been tested according to specific requirements of Directive No 2000/53/EC.

GADSL (Global Automotive Declarable Substance List)

Hereby, following substances are listed below which are indicated in Global Automotive Declarable Substance List (Revision date 01.02.2025) and they are present in this polymer product: there are not GADSL substances in the formulation of this product.

Note: In Aug 2005, VDA list of VDA 232-101 regulation (VDA = Verband der Automobilindustrie) has been replaced by the GADSL.

Directive No 2009/48/EC (of 18 June 2009) on the safety of toys and CEN standards EN 71-3 and EN 71-9

CEN Standard EN 71-3 and EN 71-9 refer to safety of toys and not specifically to plastic raw material. We confirm that we do not intentionally add substances listed in EN 71-9, Tables 2 A-I. 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 presence of these chemicals.

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.

This product was tested according to EN 71-3 and meets the requirements of migration limits of certain elements which shall not be exceeded in scraped-off toy material defined by Annex II, III. Chemical properties, point 13. of Directive 2009/48/EC of 18th June 2009 on the safety of toys.

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.

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Nanomaterials and Nanotechnology

We certify that during manufacturing of this product, we do not use nanotechnology or any nanomaterials defined in Commission Recommendation 2011/696/EU (of 18 October 2011) on the definition of nanomaterial.

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 of size distribution, one or more external dimensions is in the size range (1-100) nm are not used in the production or the formulation of this grade. However, this product has not been tested for presence of these chemical substances.

CEN standard EN 13432

This product is not suitable for composting.

Conflict minerals

Conflict minerals which contain columbite-tantalite (coltan), cassiterite, gold, wolframite and their derivative metals like sources of tin, tungsten and tantalum mined from the Democratic Republic of Congo (DRC) or its adjoining countries (DRC Countries: Angola, Burundi, Central African Republic, the Republic of Congo, Rwanda, South Sudan, Tanzania, Uganda, Zambia) are not used in polymerization process during the production of this product.

Regulation (EU) 2017/821 of the European Parliament and of the Council of 17 May 2017 laying down supply chain due diligence obligations for Union importers of tin, tantalum and tungsten, their ores, and gold originating from conflict-affected and high-risk areas.

We confirm the compliance with the Conflict Minerals Regulation (EU) 2017/821 concern to the EU-based importers of tin, tantalum, tungsten and gold (also referred to as "3TG") and commit ourselves to also demand compliance from our suppliers. We confirm that we are not subject to the provisions of the Conflict Mineral Regulation, as we do not import any of the concerned minerals from conflict and high-risk areas into the European Union as a Union importer.

Regulation (EU) 2024/573 of the European Parliament and of the Council of 7 February 2024 on fluorinated greenhouse gases

We declare that during the manufacturing of this product, we do not use or intentionally incorporate greenhouse gases. Therefore, it is not reasonable to expect any such substances to be present in this product. However, this product has not been specifically tested for the presence of these chemical substances.

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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 the presence of these elements.

- 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)
- Sulphur (S)
- Uranium (U)

We have to 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 which are listed below and therefore they 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]
- Acenaphthylene [CAS No. 208-96-9]
- Acetaldehyde [CAS No. 75-07-0]
- Acenaphthene [CAS No. 83-32-9]
- Acetyl tributyl citrate [CAS No. 77-90-7]
- 4-Aminobiphenyl [CAS No. 92-67-1] and its salts
- Acrolein (2-propenal) [CAS No. 107-02-8]
- Anthracen [CAS No. 120-12-7]
- Antrachinon [CAS No. 84-65-1]
- Acrylamide [CAS No. 79-06-1]
- Adipates
- 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]
- Acrylonitrile [CAS No. 107-13-1]

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- Alkylphenols
- Alkyl phenol Ethoxylates (APE)
- Alkylphenolphosphates
- Anthracene [CAS No. 120-12-7]
- Anthraquinone [CAS No. 84-65-1]
- Artificial musks
- Azocolourants (restricted by Directive 2002/61/EC), azodyes
- 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]
- Benzisothiazolinone [CAS No. 2634-33-5]
- 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 AF (BPAF) [CAS No. 1478-61-1], Bisphenol B (BPB) [CAS No. 77-40-7], Bisphenol E (BPE) [CAS No. 2081-08-5], Bisphenol F (BPF) [CAS No. 620-92-8] and Bisphenol S (BPS) [CAS No. 80-09-01]
- Bisphenol A diglycidyl ether (BADGE) [CAS No. 1675-54-3]
- Bisphenol F diglycidyl ether (BFDGE) [CAS No. 2095-03-6]
- 4,4'-Bis(diethylamino)benzophenone- DEAB [CAS No. 90-93-7]
- Bis(chloromethyl)ether (BCME) [CAS No. 542-88-1]
- Bis(2-butoxyethyl) adipate [CAS No. 141-18-4]
- Bis(2-ethylhexyl) Fumarate [CAS No. 141-02-6]
- Bismuth [CAS No. 7440-69-9]
- Blue colorants
- Bromine and its derivatives
- Butyl acrylate [CAS No. 141-32-2]
- 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

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- Boron and its derivatives
- Butylated Hydroxytoluene (BHT) [CAS No. 128-37-0]
- Butylated Hydroxyanisole (BHA) [CAS No. 25013-16-5 and CAS No. 121-00-6]
- C10 - C13 aromatics
- C9 aromatics
- Camphor benzalkonium methosulfate [CAS No. 52793-97-2]
- Catenex PH 941
- Cellulose [CAS No. 9004-34-6]
- Cellulose Acetate [CAS No. 9004-35-7]
- Cetylstearylalcohol [CAS No. 67762-27-0]
- Chlorinated alkyl benzenes (CABs)
- Chlorinated paraffins, short chain chlorinated paraffins (SCCPs)
- Chlorine and its derivatives
- Chlorofluorocarbon (CFC)
- Chlorpyrifos (CAS No.: 2921-88-2)
- Cholecalciferol [CAS No. 67-97-0]
- Chrysene [CAS No. 218-01-9]
- Cobalt [CAS No. 7440-48-4] and Coll chloride [CAS No. 7646-79-9]
- Coconut Oil
- Colourants
- Coriandrol (D-Linalool) [CAS No. 126-90-9]
- Cumene [CAS No. 98-82-8]
- Cyanuric acid (CYA) [CAS No. 108-80-5]
- N-cyclohexyl-2-benzothiazolesulfenamide [CAS No. 95-33-0]
- 1,2-Cyclohexane dicarboxylic acid diisononyl ester [CAS No. 166412-78-8]
- 4,4'-diaminodiphenylmethane [CAS No. 101-77-9]
- 4,4'-diaminostilbene [CAS No. 54760-75-7]
- Decabromodiphenyl ethane (DBDPE) [CAS No. 184852-53-9]
- Decabromodiphenyl ether (DecaBDE) [CAS No. 1163-19-15]
- Diantimony trioxide [CAS No. 1309-64-4]
- Di-2-ethylhexyl maleate (DEHM) [CAS No. 142-16-5]
- Dibenzo[a,h]anthracene [CAS No. 53-70-3]
- Dibenzothiazyl disulphide [CAS No. 120-78-5]
- Dichlorodiphenyltrichloroethane [CAS No. 50-29-3]
- Diisooctylphthalate [CAS No. 27554-26-3]
- 2,2-Dimethoxy-2-phenylacetophenone- DMPA [CAS No. 24650-42-8]
- Dimethylacetamide [CAS No. 127-19-5]
- Dimethylfumarate [CAS No. 624-49-7]
- Dimethylformamide (DMF) [CAS No. 68-12-2]
- 1,4-Dioxane [CAS No. 123-91-1]
- Didecyl-dimethylammonium chloride DDAC [CAS No. 7173-51-5]
- 2,4-Diethyl-9H-thioxanthen-9-one- DETX (CAS No. 82799-44-8)
- Di-o-tolylguanidine (DOTG) [CAS No. 938-22-7]

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- Dioxin [CAS No 290-67-5 and CAS No. 289-87-2] and its derivatives
- Dipentamethylenethiuram disulphide (PTD) [CAS No. 94-37-1]
- Endocrine disruptors
- Epichlorhydrin [CAS No. 106-89-8]
- Epoxidised Soy-Bean Oil (ESBO)
- Epoxy resin [CAS No. 68334-76-9]
- Ethanol [CAS No. 64-17-5]
- Ethyl 4-(dimethylamino)benzoate- EDMAB [CAS No. 10287-53-3]
- 2-Ethylanthraquinone [CAS No.84-51-5]
- 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]
- Ethylbenzene [CAS No. 100-41-4]
- Ethylene-oxide [CAS No. 75-21-8]
- 2-Ethylhexanoic acid [CAS No. 149-57-5]
- 2-Ethylhexyl 4-(dimethylamino)benzoate- EDHAB [CAS No. 21245-02-3]
- Fats
- Flame retardants (all)
- Fluoranthene [CAS No. 206-44-0]
- Fluorene [CAS No. 86-73-7]
- Fluorine and its derivatives
- Fluorocarbons
- Fluoroelastomers
- Fluorotelomers
- Folpet [CAS No. 1333-07-3]
- Formaldehyde [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]
 - Lylal (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]
- Galactomannane (CAS No.: 11078-30-1)
- Glycerol [CAS No. 56-81-5]
- Glycol ethers (EGME, EGMEA, EGEEE, EGEEA)

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- Glycols ethylene [CAS No.: 107-21-1] and propylene [CAS No. 57-55-6]
- Glyoxal [CAS No. 107-22-2]
- Gold (Au) [CAS No.: 7440-57-5]
- Graphite
- Halogenated Flame Retardants
- Halogenated HydroCarbons
- Herbicides
- Hexachlorobenzene (HCB) [CAS No. 118-74-1]
- Hexachlorbutadien, (HCBD) [CAS No. 87-68-3]
- Hexabromocyclododecane (HBCDD) [CAS No. 25637-99-4, 3194-55-6]
- 1-hydroxycyclohexyl phenyl ketone- HCPK [CAS No. 947-19-3]
- 4-Hydroxybenzophenone [CAS No. 1137-42-4]
- 2-Hydroxy-2-methylpropiophenone- HMPP [CAS No. 7473-98-5]
- Hydrofluorocarbon (HFC)
- Hydrochlorofluorocarbon (HCFC)
- Indeno(1,2,3-c,d)pyrene [CAS No. 193-39-5]
- Indium [CAS No. 7440-74-6]
- Insecticides
- Isopropyl thioxanthone (ITX) [CAS No. 83846-86-0, CAS No. 5495-84-1, CAS No. 75081-21-9]
- Jatropha plant derivatives
- Lanoline [CAS No. 8006-54-0]
- Latex, Natural Rubber [CAS No. 9006-04-6]
- 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)
- Mancozeb [CAS No. 8018-01-7]
- Mineral oil aromatic hydrocarbones C>24 (MOAHs)
- Mineral oil saturated hydrocarbons from C10 to C40 (MOSHs)
- Medium-chain chlorinated paraffins (MCCP), Long-chain chlorinated paraffins (LCCP)
- N-Methylpyrrolidone (NMP) [CAS No. 872-50-4]
- 4-Methylbenzophenone [CAS No. 134-84-9]
- Melamine [CAS No. 108-78-1]
- Methylene-Diphenyl-Diisocyanate (MDI) [CAS No. 101-68-8]
- 2-mercaptobenzothiazole (MBT) [CAS No. 149-30-4]
- Methanol [CAS No. 67-56-1]
- 2-Methyl-4-isothiazolin-3-one [CAS No. 2682-20-4]
- Methyl methacrylate [CAS No. 80-62-6]
- Methylidibromo glutaronitrile (MDBGN) [CAS No. 35691-65-7]
- Methylene chloride [CAS No. 75-09-2]
- Mica
- 2-(4-Morpholinylmercapto)benzothiazole [CAS No. 102-77-2]
- Musk xylene [CAS No. 81-15-2]

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- Nanomaterials (including Nanoclay, Nanosilver)
- 1-Naphtol, 2-Naphtol
- Naphthalene [CAS No. 91-20-3]
- 2-Naphthylamine [CAS No. 91-59-8] and its salts
- Neomycin [CAS No 1404-04-2]
- N-butanol [CAS No. 71-36-3]
- N-Ethyl-o-toluenesulfonamide (NETSA) [CAS No. 1077-66-1]
- N-Ethyl-p-toluenesulfonamide [CAS No. 80-39-7]
- N-Isopropyl-N'-phenyl-1,4-phenylenediamine [CAS No. 101-72-4]
- Ni and Ni-compounds [CAS No. 7440-02-0]
- Nickel titanium oxide [CAS No. 12035-39-1]
- Nitrosamines
- Nitrilotriacetic acid, NTA [CAS No. 139-13-9]
- Nitrates
- Nitrite derivatives
- Nitrosoamines
- 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]
- Nonylphenol ethoxylates
- Novolac glycidyl ether
- Octylphenols [CAS No. 27193-28-8] and Nonylphenol [CAS No. 25154-52-3]
- o-Phenylphenol (OPP) [CAS No. 90-43-7]
- Oleamide [CAS No. 301-02-0]
- Organotin compounds
- Oxalic Acid [CAS No. 144-62-7] and its derivatives
- Palm oil
- Palm Kerner Oil
- Palladium [CAS No. 7440-05-3]
- Parabenes (Esters of Para-hydroxybenzoic-acid)
- Pentachlorothiophenol, (PCTP) [CAS No. 133-49-3]
- Pentachlorophenol (PCP) [CAS No. 87-86-5]
- PentaBDE [CAS No 32534-81-9] (pentabromodiphenyl ether) and octaBDE [CAS No. 32536-52-0] (octabromodiphenyl ether)
- Poly- and Perfluoroalkyl substances (PFAS)
- Perfluorooctane sulfonate (PFOS) [CAS No. 1763-23-1]
- Perfluorooctanoic acid (PFOA) [CAS No. 335-67-1]
- Perfluorinated carboxylic acids (PFCAs)
- Perfluorochemicals (PFCs)
- Perfluoro-alkyl- phosphate esters (PAPs)
- Perfume
- Perchlorates

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- 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
- Phenol, isopropyliertes Phosphat, (PIP (3:1)) [CAS No. 68937-41-7]
- Phthalic Anhydride [CAS No. 85-44-9]
- Phthalimide [CAS No. 85-41-6]
- Phthalates:
 - Di(2-ethylhexyl)phthalate (DEHP), [CAS No. 117-81-7]
 - Dibutyl-phthalate (DBP), [CAS No. 84-74-2]
 - Benzyl butyl phthalate (BBP), [CAS No. 85-68-7]
 - Diisononyl phthalate (DINP), [CAS No. 28553-12-0]
 - Diisodecyl phthalate (DIDP), [CAS No. 26761-40-0]
 - Di-N-octyl Phthalate (DNOP), [CAS No. 117-84-0]
 - Di-benzyl phthalate [CAS No. 523-31-9]
 - Di-methyl phthalate [CAS No. 131-11-3]
 - Di-ethyl phthalate (DEP), [CAS No. 84-66-2]
 - Di-cyclo-hexyl phthalate (DCHP), [CAS No. 84-61-7]
 - Di-methoxyethyl phthalate (DMEP), [CAS No. 117-82-8]
 - Di-(methylcyclohexyl) phthalate (DMCHP), [CAS No. 27987-25-3]
 - Other phthalates
- P-Hydroxybenzoic Acid [CAS No. 99-96-7]
- p-Phenylenediamine [CAS No. 106-50-3]
- Plasticizers
- Pigment Green 50 [CAS No. 68186-85-6]
- Polyamide-6
- Polyacrylonitrile (PAN) [CAS No. 25014-41-9]
- Polylactic acid (PLA) [CAS No. 26100-51-6]
- Polychlorinated Biphenyls (PCBs)
- Polybrominated Biphenyls (PBBs)
- Polychlorinated Dibenzodioxin (PCDDs) and dibenzofurans
- Polychlorinated Furanes (PCDFs)
- Polychlorinated Naphthalenes (PCNs)

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- Polychlorinated Terphenyls (PCTs)
- Polychlorinated Diphenyl Ethers (PCDEs)
- Polybrominated Diphenyl Ethers (PBDEs)
- Polybrominated Terphenyls (PBTs)
- Polycyclic aromatic hydrocarbons (PAHs)
- Polycarbonate (PC) [CAS No. 25037-45-0]
- Polyethylene terephthalate (PET) [CAS No. 25038-59-9]
- Polytetrafluorethylene (PTFE, TEFLON) [CAS No. 9002-85-1] and [CAS No. 9002-84-0]
- Polyvinylalcohol [CAS No. 9002-89-5]
- 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]
- Propolis [CAS No. 9009-62-5]
- Proteines
- PVC [CAS No. 9002-86-2] and PVDC [CAS No. 9002-85-1]
- Pyrene [CAS No. 129-00-0]
- Radioactive substances/elements
- Quaternary Ammonium Compounds
- Radon (Rn) [CAS No 10043-92-2]
- Release additives
- Resorcinol; 1,3-benzenediol [CAS No. 108-46-3]
- Rosin from wood [CAS No. 8050-09-7]
- Rubber (Synthetic and Natural)
- Recycled material
- Colophony (Gum rosin) [CAS No. 8050-09-7]
- Semicarbazide [CAS No. 57-56-7]
- Short Chain Chlorinated Paraffins (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]
- Silver [CAS No. 7440-22-4]
- Softeners
- Styrene [CAS No. 100-42-5]
- Sulphur dioxide [CAS No. 7466-09-5]
- Sulfates

DECLARATION DATA SHEET

Polyethylene TIPELIN 6300B

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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- sum of Benzophenone + 4-Methylbenzophenone + 4-hydroxybenzophenone (CAS No. 119-61-9, CAS No. 134-84-9 and CAS No. 1137-42-4)
- 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
- Terephthalic acid [CAS No. 100-21-0]
- Tetrabromobisphenol A (TBBPA) [CAS No. 79-94-7]
- Tetrachloroethene (PERC) [CAS No. 127-18-4]
- Tetraethyleneglycol dimethacrylate (TEGDMA) [CAS No. 109-16-0]
- Tetraethylthiuram disulphide (TETD) [CAS No. 97-77-8]
- Tetramethylthiuram disulphide (TMTD) [CAS No. 137-26-8]
- Tetramethylthiuram monosulphide (TMTM) [CAS No. 97-74-5]
- Thiuram mix
- Titanium acetyl acetonate (TAA) [CAS No. 17501-79-0]
- Thorium [CAS No. 7440-29-1]
- Tin oxide, Cassiterite [CAS No. 8062-08-6]
- Titanium dioxide [CAS No. 1317-70-0]
- Trans-2 nonenal [CAS No. 18829-56-6]
- Trichlorobenzene [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]
- Tris (nonylphenyl) phosphite (TNPP) [CAS No. 3050-88-2]
- Tris(2-butoxyethyl) phosphate (TBEP) [CAS No. 78-51-3]
- 2,4,6-tris(tert-Butyl) phenol, (TTBP) [CAS No. 732-26-3]
- Tris(2-nonylphenyl) phosphite (TNPP) [CAS No. 26523-78-4]
- Trimethylbenzenes
- Toluene [CAS No. 108-88-3]
- Turpentine [CAS No. 8006-64-2]
- UV Filters UV stabilizers
 - 2,2'-Methylene-bis-(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol) (MBBT) [CAS No. 103597-45-1]
 - 2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol [CAS No. 25973-55-1]
 - 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, CAS No. 131-55-5, CAS No. 131-57-7]
 - Ethylhexyl-Methoxycinnamate (OMC) [CAS No. 5466-77-3]
 - Octocrylene, Etocrylene [CAS No. 6197-30-4, CAS No. 5232-99-5]
 - Homosalate [CAS No. 118-56-9]
 - 4-Methylbenzylidene Camphor (MBC) [CAS No. 36861-47-9]

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- Octyl-Dimethyl-p-Aminobenzoic-Acid (OD-PABA) [CAS No. 58817-05-3]
- Vinyl acetate [CAS No. 108-05-4]
- Vinylidene chloride (VDC) [CAS No. 75-35-4]
- Water repellents
- Xenohormones
- Xylenes [CAS No. 1330-20-7]

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