Technical Data Sheet

DuPure® TU 76 V

Polypropylene Heterophasic Copolymer

Description

DuPure TU 76 V is a controlled rheology, heterophasic polypropylene copolymer (produced with a phthalate-free catalyst). The product shows a very high fluidity and a good impact resistance.

Applications

DuPure TU 76 V is suitable for: thin-walled packaging, house wares.

Quality, Environment and Safety Regulations

Material Safety Data Sheets and other regulatory documents are available on our web site http://www.ducorchem.com.

Properties		Method	Typical Value*	Unit
Physical				
Melt Flow Rate	(230 °C / 2.16 kg)	ISO 1133	48	g/10 min
Mechanical				
Tensile Modulus	(1 mm/min)	ISO 527-2	950	MPa
Tensile Stress at Yield	(50 mm/min)	ISO 527-2	19	MPa
Tensile Strain at Yield	(50 mm/min)	ISO 527-2	5	%
Tensile Strain at Break	(50 mm/min)	ISO 527-2	> 50	%
Shear Modulus		ISO 6721-2	500	MPa
Charpy Impact Strength, notched	(+23 °C)	ISO 179/1eA	20 P	kJ/m^2
	(0 °C)	ISO 179/1eA	9	kJ/m^2
	(−20 °C)	ISO 179/1eA	4.5	kJ/m^2
	(−30 °C)	ISO 179/1eA	4	kJ/m^2
Charpy Impact Strength, unnotched	(+23 °C)	ISO 179/1eU	No Break	kJ/m^2
	(0 °C)	ISO 179/1eU	No Break	kJ/m^2
	(−20 °C)	ISO 179/1eU	150	kJ/m^2
	(−30 °C)	ISO 179/1eU	125	kJ/m^2
Izod Impact Strength, notched	(+23 °C)	ISO 180/1A	18 P	kJ/m^2
	(0 °C)	ISO 180/1A	9	kJ/m^2
	(−20 °C)	ISO 180/1A	5.5	kJ/m^2
	(−30 °C)	ISO 180/1A	4.5	kJ/m^2
Ball Indentation Hardness (H 132/30)		ISO 2039-1	44	MPa
Thermal				
Melting Point, DSC		ISO 3146	163	°C
Heat Deflection Temperature	(1.8 MPa)	ISO 75-2	48	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	78	°C
Vicat Softening Temperature	(10 N)	ISO 306	142	°C
Vicat Softening Temperature	(50 N)	ISO 306	56	°C
Other Properties				
Density		ISO 1183	0.91	g/cm^3

** Typical values; not to be construed as specifications*

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Last updated: April 2015

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Safety Data Sheet –
Ducor Polypropylene Impact and Random Copolymers
According to Regulation (EC) No 1907/2006 (REACH), Article 31

1. Identification of substance

Trade name	DuPure® (Polypropylene Impact and Random Copolymers) Grades: DuPure® SH 50, SL 50, SR 76, ST 76 V, SU 76 V, SL 76 A, SM 76 A, SU 76 A, SU 76 AV, SW 76 AV, SR 79, ST 77 A, SU 77 AV, SY 77 AV, SU 77 A, TE 76, TM 76 V, TM 76, TR 76 V, TU 76 V, TT 79 V, QM 49, QG 49, QE 49, QL 50, QE 50, QE 50 E, QR 50, QR 76 AV, QW 76 AV. DuClear® (Polypropylene Random Copolymers) Grades: DuClear® QG 80 A, QR 80 A, QT 80 A, QU 80 A, QW 80 AV, QY 80 AV, QG 85 A, QR 85 A, QT 85 A, QU 85 A, QW 85 AV, QY 85 AV QU 73 A
Identified uses	Manufacture of plastic articles by injection molding, extrusion or other conversion process
Prohibited used	Applications involving permanent implantation into the body, European Class III & FDA Class III medical devices
Manufacturer	Ducor Petrochemicals B.V. Merseyweg 24 3197KG Botlek - Rotterdam the Netherlands
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Website	http://www.ducorchem.com
E-mail	info@ducorchem.com

2. Hazards Identification

Classification & Labeling	This product is not classified as hazardous according to EEC directives 67/548/EEC, 1999/45/EC. This product is not classified as hazardous according to EC regulations 1907/2006/EC, 1272/2008/EC, and following amendments.
Information pertaining to particular dangers for man and environment	Fine dust may cause irritation of respiratory system and mucous. Contact with hot (molten) material – risk of serious burns. If heated to more than 160°C, the product may form vapors or fumes which may cause irritations of respiratory tract and cause coughing and sensation of shortness of breath. Handling this product may result in electrostatic accumulation. Use proper grounding procedures Dust may form explosive mixture in air. Combustible dust

3. Composition/Information on Ingredients

Chemical Name	Propene, polymer with ethene
Chemical Formula	(C3H6)x - (C2H4)y
CAS No. Designation	9010-79-1
Description	Mixture of propene, polymer with ethene, with additives/stabilisers

4. First Aid Measures

General information	Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.
After inhalation	Exposure to spray, fumes and vapours produced by heated or burned product: Move to fresh air. Call for medical help.
After skin contact	After contact with the molten product, cool rapidly with cold water. Do not pull

	solidified product away from the skin. Seek immediate medical advice.
After eye contact	Immediately rinse with water for a prolonged period while holding the eyelids wide open. In case of irritation caused by fine dust: wash with copious volumes of water, until the irritation disappears. In case of eye contact with molten polymer: continuously flush eye(s) with cool running water for at least 15 minutes. Beyond flushing, do not attempt to remove the material adherent to the eye(s). Immediately seek medical attention
After swallowing	No specific measures have to be taken if the product is swallowed.

5. Fire fighting measures

Suitable extinguishing agents	For small fire: Carbon dioxide. Dry powder. Water spray. For large fire: Foam.
Unsuitable extinguishing agents	Solid water jet/stream
Specific hazards during fire fighting	Keep away from heat and sources of ignition. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 400 and 700°C)
Protection during firefighting	Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.
Additional information	Combustible particulate solid, will decompose under fire conditions. Calorific Value: 8000 - 11000 kcal/kg Fight fire from safe distance with hose lines or monitor nozzles. Heat from fire may melt, decompose polymer, and generate flammable vapors. Move containers from fire area if it can be done without risk. Evacuate immediately in the event of opening of storage container pressure relief devices or discoloration of container. Always stay away from tanks engulfed in fire. Do not attempt to get on top of storage containers involved in fire. Cool storage containers with large volumes of water even after fire is out.

6. Accidental Release Measures

Person-related safety precautions	Creates dangerous slipping hazard on any hard smooth surface. Avoid generating dust. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Potential combustible dust hazard.
Measures for environmental protection	Do not flush into surface water or sanitary sewer system
Measures for cleaning/collecting	On land, sweep/shovel into suitable disposal containers or vacuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as any solid. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

7. Handling and Storage

Information for safe handling	Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation and dust collection at machinery. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Requirements for storage	Storage facilities must fulfill all fire safety requirements for buildings, and all

areas and containers	electrical appliances must be compliant with the applicable regulations. Store in a dry, cool, well-ventilated area. Protect from heat and direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Proper grounding procedures to avoid static electricity should be followed. Prevent accidental release of the material in the environment during storage

8. Exposure Controls and Personal Protection

Control parameters:

Components with workplace control parameters

Occupational Exposure Limits

Ingredients	Source	Type	Limit value
Materials that can be formed when handling this product: Non specified (inert or nuisance) dust	US - ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ inhalable 3 mg/m³ respirable

Consult local authorities for acceptable exposure limits

Exposure controls	
Engineering measures	Ensure good ventilation of the work place. If handling results in dust generation or high temperatures, local exhaust ventilation should be provided to insure that exposure to dust or decomposition products does not exceed the exposure recommended levels. Safety shower. Eye fountain.
Personal protective equipment	
General protective and hygienic measures	Dustproof clothing. Gloves. Safety glasses. Dust formation: dust mask. Do not eat, drink or smoke during use
Respiratory protection	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use appropriate respiratory protection where atmosphere exceeds recommended limits. Where workers could be exposed to dust concentrations above the exposure limit they must use appropriate certified respirators.
Hand protection	Protective gloves. When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten resin.
Eye protection	Safety glasses with side-shields.
Skin & Body protection	Wear suitable clothing. Safety foot-wear

9. Physical and Chemical Properties

Physical state	Solid
Appearance	Pellet / Granule
Colour	Translucent to white
Odor	Slight
Melting point/range	120-170°C
Boiling point/range	Decomposition starting from 300°C
Autoignition temperature	> 300°C
Lower explosion limit	The minimum explosive concentration (MEC) for polymer dust varies according to particle size distribution
Density	0.89-0.91 g/cm3
Solubility in water	Insoluble
Bulk Density	400-600 kg/m3

10. Stability and Reactivity

Reactivity	Electrostatic charges may be generated during handling. Take precautionary measures against static discharge during blending and transfer operations.
Chemical Stability	The product is stable at normal handling- and storage conditions

Possibility of hazardous reactions	Dust may form explosive mixture in air.
Conditions to Avoid	No flames, no sparks. Eliminate all sources of ignition. Avoid temperature above 300°C.
Materials to avoid	Strong acids. Strong bases. Strong oxidizing agents. Halogens.
Hazardous decomposition products	Not expected to decompose under normal conditions.
Thermal decomposition	Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

11. Toxicological Information

Acute oral toxicity	Not classified
Skin corrosion/irritation	Not classified Heated product causes burns. Thermal decomposition products are produced at elevated temperatures and these may be irritating
Serious eye damage/ irritation	Not classified Fine dust may cause irritation to ocular mucous. Thermal decomposition products are produced at elevated temperatures and these may be irritating. Heated product causes burns.
Respiratory or skin sensitisation	Not classified
Cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified Dust may cause irritation of respiratory system. If heated to more than 160°C, the product may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

12. Ecological Information

Ecotoxicity Effects	Ecological damages are not known or expected under normal use. Small particles can have an effect on water and soil organisms.
Persistence and degradability	Product persists. Not expected to be biodegradable.
Bioaccumulation	This product is not expected to bioaccumulate
Mobility in soil	Low mobility. The product is not volatile, and insoluble in water
Results of PBT assessment	Not determined
Other adverse effects	No additional information available

13. Disposal Considerations

Waste treatment methods	All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible. Recycle if possible.
Additional information	Incinerate with household refuse in a municipal solid waste incinerator plan.

14. Transport Information

Transport Classification	The substance is not classified as dangerous according to relevant transport

regulations.

15. Regulatory Information

EC regulations See the Regulatory Affairs Product Information Datasheet (RAPIDS) of the product on www.ducorchem.com.

16. Other Information

Further information Conforms to Regulation (EC) No 1907/2006 (REACH), Article 31.

Disclaimer:
The information contained in the Safety Data Sheet is at the date of its issuance to the best of our knowledge correct according to the data available to us. The information is meant as a guideline for safe use, handling, disposal, storage and transport of products and does not imply any warranty (not implied nor explicitly) or specification. The Supplier shall to the extent permitted by law not be liable for any error or incorrectness in the information contained in this Safety Data Sheet. The information relates exclusively to the specified products, which may not be suitable for combination with other materials or use in processes other than those specifically described here.

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DuPure® TU 76 V

Polypropylene

General Statement on Compliance with Food Contact Regulations

Food contact – European Union

This product meets the relevant requirements of Regulation 1935/2004/EC, so far applicable for plastic raw materials, used for articles or components of articles intended to come into contact with food. This product is a plastic raw material for which specific measures are adopted as foreseen in article 5 of Regulation 1935/2004/EC. For plastic materials and articles, specific measures are adopted through Regulation 10/2011/EC as amended (see below).

This product is manufactured in line with the relevant requirements of Regulation 2023/2006/EC, so far applicable to plastic raw materials, on good manufacturing practice for materials and articles intended to come into contact with food.

The monomers and additives used to manufacture the above-mentioned polypropylene grade are listed in Regulation 10/2011/EC and amendments 1282/2011/EC, 1183/2012/EC, 202/2014/EC, 174/2015/EC, 1416/2016/EC, 752/2017/EC, 79/2018/EC, 213/2018/EC, 831/2018/EC, 37/2019/EC, 1338/2019/EC, 1245/2020/EC, 1442/2023/EC & 1627/2023/EC, relating to plastic materials and articles intended to come into contact with foodstuffs. This product contains one or more components which are regulated with a specific migration limit (SML). The identity of this/these component(s) can be disclosed for testing purposes, upon special request and under maintaining secrecy. Furthermore, dual use additives may be used in the formulation of the above mentioned product. The identity of those substances can also be disclosed upon special request and under maintaining secrecy.

For full compliance an overall migration limit of 10 mg/dm² and specific migration limits apply to the final article intended to come in contact with food, which shall be measured from the finished food contact article by using real food or appropriate food simulants at the time/temperature conditions as applicable, according to the rules as specified in Regulation 10/2011/EC and subsequent amendments. It is the responsibility of the converter to check and confirm that the final article meets both the technical and regulatory requirements of the application. To avoid any misunderstandings: we remind you that the manufacturers of the finished food contact material or article must verify that the finished material or article, manufactured according to good manufacturing practices, does not modify the organoleptic properties of the food.

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Date issued: 01/01/2024 - Valid until 31/12/2024

Food contact – US Food and Drug Administration (FDA)

The base resin in this product meets the FDA (Food and Drug Administration) requirements contained in the Code of Federal Regulations in 21 CFR 177.1520(a)(3)(i) and (c)3.1a.

This product may contain adjuvant substances that may be safely used in polymers used for the manufacture of articles that come into direct contact with food. According to our information these substances used in this product meet the requirements of their respective FDA regulations, (FCNs), and 21 CFR 177.1520(b).

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

(#) These tables can be found on the FDA website:
https://www.fda.gov/food/packaging-food-contact-substances-fcs/food-types-conditions-use-food-contact-substances

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Date issued: 01/01/2024 - Valid until 31/12/2024

DuPure®/ DuClear®/ DuCare® Polypropylene

Compliance with REACH Regulation 1907/2006/EC

The substances, which are contained in DuPure®, DuClear®, and DuCare®, Polypropylene products, and require registration under REACH, have been registered by Ducor Petrochemicals B.V., or by our upstream suppliers.

Substances, listed in Annex XVII of the REACH Regulation 1907/2006/EC, are not intentionally used or added in the formulation of DuPure®, DuClear®, and DuCare® Polypropylene products. However, since the products have not been tested for these substances, we cannot guarantee that there is no trace amount present, as impurity or otherwise.

REACH Substances of Very High Concern (SVHC)

DuPure®, DuClear®, and DuCare® Polypropylene products do not contain any of the Annex XIV candidate chemicals proposed to be Substances of Very High Concern (latest update: 27/06/2024), in a concentration above the threshold limit of 0,1% (w/w) as stated in REACH (Article 57, Regulation 1907/2006/EC).

The current list of all SVHCs can be found at the following link to the ECHA website:
https://echa.europa.eu/candidate-list-table

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Date issued: 01/07/2024

DuPure®/ DuClear®/ DuCare® Polypropylene

General Statement on Chemical Absence

We confirm that during manufacturing of the above mentioned products, we do not intentionally use any of the chemical substances listed below. However, since the products have not been tested for these substances, we cannot guarantee that there is no trace amount present, as impurity or otherwise. If in this statement a general category or substance is mentioned, followed by one or more specific variants, the statement applies on the specific variants only, and not on the general category or substance.

* acrylamide (CAS No 79-06-1)
* acrylaldehyde (ACROLEIN, CAS No 107-02-8)
* AFLATOXIN
* ALCOHOLS
  - 1,4-Butanediol (CAS No. 110-63-4)
  - butanol
  - dichloro-propanediol (DCP, CAS No. 82598-72-9)
  - ethyl alcohol (ethanol, CAS No. 64-17-5)
  - methanol (CAS No. 67-56-1)
* anthraquinone (CAS No 84-65-1)
* AROMATICS
  - ALKYLPHENOL DERIVATIVES
    - dodecylphenol (CAS No 121158-58-5)
    - nonylphenol and ethoxylates (CAS No 25154-52-3 and 84852-15-3)
    - octylphenol and ethoxylates (CAS No 104-66-9 and 27193-28-8)
  - AROMATIC AMINES
  - 2-naphtylamine (CAS No 91-59-8)
  - 2-Methoxyaniline,o-Anisidine (CAS No. 90-04-0)
  - 2-naphthylamine (CAS No. 91-59-8)
  - 2,2'-dichloro-4,4'-methylenedianiline (MOCA, CAS No. 101-14-4)
  - 2,4,5-trimethylaniline (CAS No. 137-17-7)
  - 3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine (CAS No. 91-94-1)
  - 3,3'-dimethoxybenzidine o-dianisidine (CAS No. 119-90-4)
  - 3,3'-dimethylbenzidine 4,4'-bi-o-toluidine (CAS No. 119-93-7)
  - 4-Aminoazobenzene (CAS No. 60-09-3)
  - 4-chloroaniline (CAS No. 106-47-8)
  - 4-chloro-o-toluidine (CAS No. 95-69-2)
  - 4-methoxy-m-phenylenediamine (CAS No. 615-05-4)
  - 4-methyl-m-phenylenediamine (toluene-2,4-diamine) (CAS No. 95-80-7)
  - 4,4'-methylenedi-o-toluidine (CAS No. 838-88-0)
  - 4,4'-oxydianiline (CAS No. 101-80-4)
  - 4,4'-thiodianiline (CAS No. 139-65-1)
  - 4,4'- Diaminodiphenylmethane (MDA, CAS No. 101-77-9)
  - 5-nitro-o-toluidine (CAS No. 99-55-8)
  - 6-methoxy-m-toluidine (p-cresidine, CAS No. 120-71-8)
  - Benzenamine (Aniline, CAS No 62-53-3)

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Benzidine (CAS No. 92-87-5)
Biphenyl-4-ylamine,4-aminobiphenyl xenylamine (CAS No. 92-67-1)
o-aminoazotoluene,4-amino-2',3-dimethylazobenzene,4-o-tolylazo-o-toluidine (CAS No. 97-56-3)
o-toluidine,2-aminotoluene (CAS No. 95-53-4)
p-Phenylenediamine (PPD, CAS No. 106-50-3)
Regulation 1907/2006/EC Annex XVII Appendix 8
BENZENES
benzene (CAS No 71-43-2)
n-butylbenzene (CAS No 104-51-8)
BISPHENOL A (BPA, CAS No 80-05-7)
BISPHENOL AF (CAS No 1478-61-1)
BISPHENOL AP (CAS No. 1571-75-1)
BISPHENOL B (BPB, CAS No 77-40-7)
BISPHENOL BP (CAS No. 1844-01-5)
BISPHENOL C (CAS No. 79-97-0)
BISPHENOL C2 (CAS No. 14868-03-2)
BISPHENOL E (BPE, CAS No 2081-08-5)
BISPHENOL F (CAS No 620-92-8)
BISPHENOL G (CAS No. 127-54-8)
BISPHENOL M (CAS No. 13595-25-0)
BISPHENOL P (CAS No. 2167-51-3)
BISPHENOL PH (CAS No. 24038-68-4)
BISPHENOL S (BPS, CAS No 80-09-1)
BISPHENOL TMC (CAS No. 129188-99-4)
BISPHENOL Z (CAS No. 843-55-0)
CHLORINATED BENZENES
CHLORINATED PHENOLS
chlorophenol
dichlorophenol
pentachloeophenol (PCP)
tetrachlorophenol
trichlorophenol
CHLORINATED TOLUENES
n-ethyl-o-toluenesulfonamide (CAS No 1077-56-1)
n-ethyl-o/p -toluenesulfonamide mixture (CAS No 8047-99-2)
n-ethyl-p-toluenesulfonamide (NEPTSA, CAS No 80-39-7)
POLYCYCLIC AROMATIC HYDROCARBONS (PAH)
1,2-dihydro-acenaphthene (CAS No 83-32-9)
1-methylnaphthalene (CAS No 90-12-0)
2-methylnaphthalene (CAS No 91-57-6)
acenaphthylene (CAS No 208-96-8)
anthracene (CAS No 120-12-7)
benz(a)anthracene (CAS No 56-55-3)
benzo(a)pyrene (CAS No 50-32-8)
benzo(b)fluoranthene (CAS No 205-99-2)
benzo(e)pyrene (CAS No 192-97-2)
benzo(ghi)perylene (CAS No 191-24-2)
benzo(j)fluoranthene (CAS No 205-82-3)
benzo(k)fluoranthene (CAS No 207-08-9)
chrysene (CAS No 218-01-9)
dibenz(a,h)anthracene (CAS No 53-70-3)
fluoranthene (CAS No 206-44-0)
fluorene (CAS No 86-73-7)
indeno(1,2,3-cd)pyrene (CAS No 193-39-5)

naphthalene (CAS No 91-20-3)
phenanthrene (CAS No 85-01-8)
pyrene (CAS No 129-00-0)
PHENOLS
2-Phenylphenol (CAS No 110-80-5)
2,4,6-Tris(tert-butyl)phenol (CAS No. 732-26-3)
phenol (CAS No 108-95-2)
phenol, isopropylated phosphate (PIP 3:1) (CAS No. 68937-41-7)
phenylenediamine
pyridine (CAS No. 110-86-1)
styrene (ethenylbenzene, CAS No 100-42-5)
TOLUENES
toluene (CAS No 108-88-3)
xylene (CAS No 95-47-6, 108-38-3, 106-42-3)

* ASBESTOS
  Regulation 1907/2006/EC Annex XVII
* Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4- Trimethylpentene (BNST, CAS No 68921-45-9)
* benzidine (CAS No 92-87-5)
* BIOCIDES and ANTIBACTERIALS
  Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products as amended up to Regulation (EU) 2021/807
  2-octylisothiazol-3(2H)-one (CAS No 26530-20-1)
  2-(thiocyanomethylthio)-Benzothiazol (TCMTB, CAS No 21564-17-0)
  2,4,4'-trichloro-2'-hydroxydiphenyl ether (TRICLOSAN, CAS No 3380-34-5)
  4-chloro-3-Methylphenol (CMK, CAS no 59-50-7)
  di-metyl fumarate (DMF, CAS No 624-49-7)
  ethyl lauroyl arginat
  o-Phenylphenol (CAS No 90-43-7)
  nitrofural (CAS No. 59-87-0)
  RESORCINOL
  TRICLOCARBAN (CAS 101-20-2)
* boric acid (CAS No 10043-35-3 & 11113-50-1)
* butylated hydroxyanisole (BHA, CAS No 25013-16-5 and 121-00-6)
* butylated hydroxytoluene (BHT, CAS No 128-37-0)
* CASEIN (CAS No 9000-71-9)
* CHLORINATED ALIPHATIC COMPOUNDS
  1,1-dichloroethylene (CAS No 75-35-4)
  1,1,1-trichloroethane (CAS No 71-55-6)
  1,1,1,2-tetrachloroethane (CAS No 630-20-6)
  1,1,2-trichloroethane (CAS No 79-00-5)
  1,1,2,2-tetrachloroethane (CAS No 79-34-5)
  Hexachlorobutadiene (HCBD), (CAS No. 87-68-3)
  pentachloroethane (CAS No 76-01-7)
  tetrachloromethane (CAS No 56-23-5)
  trichlorethylene (CAS No 79-01-6)
  trichloromethane (chloroform, CAS No 67-66-3)
  SHORT and MEDIUM CHAIN CHLORINATED PARAFFINS
* COALITION OF NORTHEASTERN GOVERNORS (CONEG)
  This product meets the CONEG requirements of less than 100 ppm for total incidental Cadmium, Chromium (VI), Lead and Mercury.
* COLOPHONIUM / COLOPHONY (CAS No 8050-09-7)

COLORANTS
- DYES (UVITEX dye is used as optical brightner in a number of DuClear® resins)
- AZO Dyes
- PIGMENTS
  - carbon black (CAS No 1333-86-4)
  - titanium dioxide (CAS No 13463-67-7)
- INKS

* CONFLICT MINERALS
  - Dodd-Frank Wall Street Reform and Consumer Protection Act - September, 2010
  - Conflict minerals, which include columbite-tantalite (also known as coltan, source for tantalum), cassiterite (source for tin), gold, wolframite (source for tungsten) or their derivatives
* CYANIDES
  - cyanuric acid (CAS No 108-80-5)
* decabromofiphenylether (decaBDE)
* di(2-ethyl hexyl) maleate (DEHM, CAS No 142-16-5)
* di-butyl fumarate (DBF, CAS No 105-75-9)
* di-methyl-formamide (DMF, CAS No 68-12-2)
* dicyandiamide (DCD, CAS No 461-58-5)
* diphenyl sulfone (DPS, CAS No 127-63-9)
* dimethylacetamide (DMA) (CAS No. 127-19-5)
* DIOXINS AND FURANS
  - polychlorinated dibenzo-p-dioxins (PCDDs or dioxins)
  - polychlorinated dibenzofurans (PCDFs or furans)
  - polychlorinated biphenyls (PCBs)
* epichlorohydrin (CAS No 106-89-8)
* EPOXIDIZED SOYA BEAN OIL (ESBO, CAS No 8013-07-8)
* EPOXY DERIVATIVES
  - Regulation 2005/1895/EC
  - bisphenol A diglycidyl ether (BADGE, CAS No 1675-54-3)
  - bisphenol F diglycidyl ether (BFDGE, CAS No 2095-03-6)
  - novolac glycidyl ethers (NOGE)
* Ethyl acrylate (CAS No 140-88-5)
* ethyl hexanoic acid (EHA)
* eugenyl methyl ether (CAS No 93-15-2)
* formamide (CAS No 75-12-7)
* FLAME RETARDANTS (FR)
  - BROMINATED FR
    - 1,2,5,6,9,10-hexabromocyclodecane (HBCD, CAS No 3194-55-6)
    - polybrominated biphenyls (PBB, CAS No 59536-65-1)
    - polybrominated diphenyl ethers (PBDE)
    - polybrominated terphenyls (PBT)
    - pentabromodiphenyl ether (CAS No 32534-81-9)
    - octabromodiphenyl ether (CAS No 32536-52-0)
    - Directive 2012/19/EU (WEEE)
  - CHLORINATED FR
    - TCEP (CAS No 51805-45-9)
    - TCPP (CAS No 13674-84-5)
    - TDCP (CAS No 13674-87-8)

* FLUOROCARBONS
  Chemicals containing at least one Fluor atom bonded to carbon atom across the backbone
  1,1-difluoroethane (DFE, CAS No. 75-37-6)
  PER-and POLYFLUOROALKYL SUBSTANCES (PFAS)
  According to OECD 2021 definition: fluorinated substances that contain at least one fully fluorinated methyl or methylene carbon atom (without any H/Cl/Br/I atom attached to it)
  (heptafluoropropyl)benzene (CAS No. 378-98-3)
  α-(Cyclohexylmethyl)-ω-hydropoly(difluoromethylene) (CAS Reg. No. 65530-85-0)
  1,1,2,2,3,3-Hexafluoro-1,3-bis((trifluorovinyl)oxy)propane (CAS No. 13846-22-5)
  1,1-difluoroethylene (CAS No 75-38-7)
  1,3,3,3-Tetrafluoropropene (HFO-1234ze, CAS No. 29118-24-9)
  4-(perfluoro(2,2-bis(1-methylethyl)(1-methyl)ethen-1-yloxy))benzenesulfonic acid (CAS No. 271794-15-1)
  ammonium pentadecafluorooctanoate (APFO, CAS No. 3825-26-1)
  chloro-1,1,1,2-tetrafluoroethane (CAS Reg. No. 2837-89-0)
  chlorotrifluoroethylene (CTFE, CAS No. 79-38-9)
  dichlorotetrafluoroethane (CAS Reg. No. 1320-37-2)
  ethane, 1,1,1,2,2-pentafluoro- (CAS Reg. No. 354-33-6)
  hexafluoropropene, polymer with tetrafluoroethylene (CAS Reg. No. 25067-11-2)
  FLUOROTELEMERS
  hexafluoropropylene (CAS No. 116-15-4)
  montmorillonite-type clay treated with polytetrafluoroethylene
  morpholinium perfluorobutane sulfonate (CAS No. 503155-89-3)
  perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonic acid) (CAS No. 756426-58-1)
  perfluorobutane sulfonic acid (PFBS, CAS No. 375-73-5)
  perfluorohexane-1-sulphonic acid (CAS No. 355-46-4)
  perfluorocyclohexane sulfonic acid (CAS No. 2106-55-0)
  perfluorooctane sulfonate (PFOS, CAS No. 1763-23-1)
  perfluorooctanoic acid (PFOA, CAS No. 335-67-1)
  polytetrafluoroethylene (PTFE [Teflon], CAS No. 9002-84-0)
  perfluorohexane (CAS No. 355-42-0)
  poly(difluoromethylene), α-chloro-ω-(1-chloro-1-fluoroethyl) (CAS Reg. No. 131324-06-6)
  poly(difluoromethylene), α-chloro-ω-(2,2-dichloro-1,1,2-trifluoroethyl)- (CAS Reg. No. 79070-11-4)
  poly(difluoromethylene), α-(2,2-dichloro-2-fluoroethyl)-, ω-hydro- (CAS No. 163440-89-9)
  poly(difluoromethylene), α-fluoro-ω-[2-[(2-methyl-1-oxo-2- propenyl)oxy]ethyl]- (CAS Reg. No. 65530-66-7)
  poly(oxy-1,2-ethanediyl), α-hydro-ω-hydroxy-, ether with α-fluoro-ω-(2-hydroxyethyl)poly(difluoromethylene) (1:1) (CAS Reg. No. 65545-80-4)
  propane, 1,1,1,2,3,3,3-heptafluoro- (CAS Reg. No. 431-89-0).
  trifluoro(trifluoromethoxy)ethylene (CAS No. 187-93-5)
  tetrafluoromethane (CAS No. 75-73-0)
* FOOD ADDITIVES
  Triacetin (CAS No 102-76-1)

* FOOD ALLERGENS
  Regulation (EU) No 1169/2011, food ingredients listed in Annex II
  peanuts, tree nuts (almonds, beech nuts, brazil nuts, butternut, cashew, chestnuts, Chinquapin,
  Coconut, filberts, ginko, hazelnuts, hickory nuts, lechee, macadamia nuts, pecans, pine nuts, pistachios, sheanut and walnuts), milk, eggs, soybeans, Fish or fish products, shellfish, crustaceans (e.g. shrimp, crabs, lobsters, oysters, clams, scallops, crayfish), molluscs (e.g. snails, clams, squid, octopi) or mollusc products, sulfites, food colors, celery or celery products, wheat (gluten) or wheat products, seeds (e.g. cotton, poppy, sesame, sunflower, mustard) or seed products, aspartame, monosodium glutamate (MSG), caffeine, hydrogenated vegetable protein (HVP), grains (e.g. rye, barley, oats), lupine or lupine products
* formaldehyde (formol, CAS No 50-00-0)
* formamide (CAS No. 75-12-7)
* FRAGRANCES
  Butylphenyl methylpropional (Lilial), (CAS 80-54-6)
  Cinnamal
  Cinnamyl alcohol (CAS No 104-54-1)
  Citral (CAS No 5392-40-5)
  Coumarins (CAS No 91-64-5)
  Eugenol (CAS No 97-53-0)
  Geraniol (CAS No 106-24-1)
  hydroxycitronellal (CAS No 107-75-5)
  Hydroxymethylpentylcyclohexenecarboxaldehyde (Lyral, CAS No 31906-04-4)
  Isoeugenol (CAS No 97-54-1)
  Limonene
  Linalool (CAS No 78-70-6)
  Majantol
  Musk compounds
  Silvial (CAS No 6658-48-6)
  Vetiver
* FUNGICIDES
* GENETICALLY MODIFIED ORGANISM (GMO)
* HALOGENS
  Elemental Fluorine, Chlorine, Bromine or Iodine
* HEAVY METALS and metallic impurities
  Antimony, Arsenic, Barium, Beryllium, Bismuth, Cadmium, Gadolinium, Chromium, Cobalt, Copper, Europium, Gold, Iron, Iridium, Lanthnum, Lead, Lithium, Manganese, Mercury, Molybdenum, Nickel, Osmium, Palladium, Platinum, Potassium, Selenium, Silver, Tantalum, Thallium, Terbium, Tin, Tungsten, Vanadium, Rhodium, Ruthenium
* hexachlorobenzene (HCB, CAS No 118-74-1)
* HYDRAZINE DERIVATIVES
* INSECTICIDES
  Toxaphene (Cas No 8001-35-2)
  Dichlorodiphenyltrichloroethane (DDT, CAS No 50-29-3)
* Isocyanates
  hexamethylene diisocyanate (HDI, CAS No 822-06-0)
  isophorone diisocyanate (IPDI, CAS No 4098-71-9)
  methyl isocyanate (MIC, CAS No 624-83-9)
  methylene diphenyl diisocyanate (MDI, CAS No 101-68-8)
  naphthalene diisocyanate (NDI, CAS No 3173-72-6)
  toluene-2,4-diisocyanate (TDI, CAS No 584-84-9)
* isopropylthioxanthone (ITX, CAS No 5495-84-1 and 83846-86-0)
* Lanthanides
  Lanthanum, Cerium, Praseodymium, Neodymium, Promethium, Samarium, Europium, Gadolinium, Terbium, Dysprosium, Holmium, Erbium, Thulium, Ytterbium, Lutetium

* MELAMINE
  1,3,5-Triazine-2,4,6-triamine (CAS No 108-78-1)
* MELANIN (CAS No 8049-97-6)
* NANOMATERIALS
  Commission recommendation on the definition of nanomaterial, 2011/696/EU
  Insoluble or biopersistent and intentionally manufactured materials with one or more external dimensions, or an internal structure, on the scale from 1 to 100 nm
* NATURAL RUBBER and NATURAL LATEX
* nitroamines
* nitrite
* nitrate
* nitrocellulose (CAS No. 9004-70-0)
* nitrous acid (CAS No 6-77-7782)
* NITROSAMINE COMPOUNDS
  N-Nitrosodimethylamine (NDMA, CAS No 62-75-9)
  N-nitrosodiethylamine (NDEA, CAS No 55-18-5)
  N-nitroso-N-methyl-4-aminobutyric acid (NMBA, CAS No 61445-55-4)
  N-nitrosoisopropylethyl amine (NIPEA, CAS No 16339-04-1)
  N-nitrosodiisopropylamine (NDIPA, CAS No 601-77-4)
  N-nitrosodibutylamine (NDBA, CAS No 924-16-3),
  N-nitrosomethylphenylamine (NMPA, CAS No 614-00-6)
* N,N′-Dimethylpropyleneurea (DMPU) (CAS No. 7226-23-5)
* N-Formylmorpholine (CAS No 7394-85-8)
* N-Methylformamide (NMF) (CAS No. 123-39-7)
* N-Methyl-2-pyrrolidone (NMP) (CAS No. 872-50-4)
* ORGANO-FLUORINE COMPOUNDS
* ORGANO-TIN COMPOUNDS
  dibutyl-tin (DBT, CAS No 1002-53-5)
  dibutyltin dichloride (DBTC, CAS No 683-18-1)
  dioctyl-tin (DOT, CAS No 15231-44-4)
  monobutyl-tin (MBT, CAS No 78763-54-9)
  tributyl-tin (TBT, CAS No 688-73-3)
  tributyl-tin oxide (TBTO, CAS No 56-35-9)
  triphenyl-tin (TPT, CAS No 668-34-8)
* OXO and/or UV DEGRADABLE ADDITIVES
* OZONE-DEPLETING CHEMICALS (ODC's)
  The ozone-depleting substances (ODS), listed in the Annexes I & II of the Regulation (EC) No. 1005/2009 of 16 September 2009, and Class I and Class II ODC's listed in the US Clean Air Act Amendments of 1990, among them:
  1,1,1-Trichloroethane (methyl chloroform)
  bromochloromethane
  carbon tetrachloride
  CFC's
  halons
  hydrobromofluorocarbons (HBFC) hydrochlorofluorocarbons (HCFC)
  methyl bromide
* PACKAGING AND PACKAGING WASTE
  Directive 94/62/EC as amended by Directive (EU) 2018/852
* PARABENS
  Esters of para-hydroxybenzoic-acid

* PERCHLORATE COMPOUNDS
* Persistent Organic Pollutant (POP) as detailed in the Stockholm Convention on Persistent Organic Pollutants and Annex I & IV of EC Regulation (EU) 2019/1021 as amended by Regulation (EU) 2022/2291
  - Aldrin (CAS No 309-00-2)
  - alpha hexachlorocyclohexane
  - beta hexachlorocyclohexane
  - chlordane (CAS No 57-74-9)
  - chlordecone (CAS No 143-50-0)
  - dichlorodiphenyltrichloroethane (DDT, CAS No 50-29-3)
  - decabromodiphenyl ether (commercial mixture, c-decaBDE),
  - Dieldrin (CAS No 60-57-1)
  - Endrin (CAS No 72-20-8)
  - heptachlor (CAS No 76-44-8)
  - hexabromobiphenyl (CAS No 36355-01-8)
  - hexabromocyclododecane (HBCDD)
  - hexabromodiphenyl ether and heptabromodiphenyl ether,
  - hexachlorobenzene (HCB)
  - hexachlorobutadiene (HCBD)
  - hexachlorobutadiene
  - Lindane
  - Mirex (CAS No 2385-85-5)
  - pentachlorobenzene
  - pentachlorophenol and its salts and esters
  - perfluorooctane sulfonic acid, its salts and perfluorooctane sulfonyl fluoride,
  - polychlorinated biphenyls (PCB, CAS No 1336-36-3)
  - polychlorinated dibenzofurans (PCDF)
  - polychlorinated dibenzo-p-dioxins (PCDD)
  - polychlorinated naphthalenes
  - Short-chain chlorinated paraffins (SCCPs)
  - Technical endosulfan and its related isomers
  - tetrabromodiphenyl ether and pentabromodiphenyl ether,
  - Toxaphene (CAS No 8001-35-2)
* PESTICIDES, HERBICIDES
  - Di-isopropyl-naphthalene's (DIPN, CAS No 24157-81-1)
* Pentachloro-thiophenol (PCTP), (CAS No. 133-49-3)
* PHTHALATES
  - butyl benzyl phthalate (BBP, CAS No 85-68-7)
  - di(2-ethylhexyl) phthalate (DEHP) or di-octyl phthalate (DOP, CAS No 117-81-7)
  - di-butyl phthalate (DBP) or di-n-butyl phthalate (DNBP, CAS No 84-74-2)
  - di-iso-decyl phthalate (DIDP, CAS No 26761-40-0)
  - di-iso-nonyl phthalate (DINP, CAS No 28553-12-0)
  - di-n-octyl phthalate (DNOP, CAS No 117-84-0)
  - diisopentyl phthalate (DIPP, CAS No 605-50-5)
  - dipentyl phthalate (DPP, CAS No 131-18-0)
  - n-pentyl-iso-pentylphthalate (PIPP, CAS No 776297-69-9)
* phthalic anhydride (CAS No 038103-06-9)

* PLASTICIZERS
  1,2-Cyclohexanedicarboxylic acid, 1,2-diisononyl ester (DINCH, CAS No 166412-78-8)
  bis(2-ethylhexyl) adipate (DEHA, CAS No 103-23-1)
  butyryl tri-n-hexyl citrate (BTHC, CAS No 82469-79-2)
  glycerides, castor-oil mono-, hydrogenated, acetates (CAS No 736150-63-3)
  tris(2-ethylhexyl)benzene-1,2,4-tricarboxylate (CAS No 3319-31-1)
* polyacrylonitrile (PAN, CAS No 25014-41-9)
* polychlorinated naphtalenes (PCN)
  Regulation 1907/2006/EC Annex XVII
* polychlorinated terphenyls (PCT)
* Polychloroprene (CAS No 9010-98-4)
* polyethylene glycol (PEG)
* POLYSTYRENE RESINS
* polytetrafluoroethylene (PTFE [Teflon], CAS No 9002-84-0)
* polyvinyl butyral (PVB, CAS No 915977-69-4)
* polyvinyl chloride (PVC, CAS No 9002-86-2)
* polyvinyl chloride, chlorinated (CPVC, CAS No 68648-82-8)
* polyvinylidene chloride (PVDC, CAS No 9002-85-1)
* Pulegone (CAS No 89-82-7)
* QUATERNARY AMMONIUM COMPOUNDS
  didecyl dimethyl ammonium chloride (DDAC, CAS No 7173-51-5)
  di(2-hydroxyethyl)methyldodecylammonium (diHEMDA, CAS no 22340-01-8)
  benzalkonium chloride (BAC, CAS No 8001-54-5)
* RADIOACTIVE SUBSTANCES
  Annexes III and VII of Directive 2013/59/Euratom
* RADON (CAS No 10043-92-2)
* RECYCLED MATERIALS
  Regulation (EU) 2022/1616
* RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRIC AND ELECRTRONIC EQUIPMENT
  Directive 2015/863/EC, amending Annex II of 2011/65/EU (RoHS), repealing Directive 2002/95/EC
  DEHP, BBP, DBP, DIBP, PBDE, PBB, PCB, Chromium (VI), Lead, Mercury and Cadmium
* SEMICARBAZIDE (SEM) and AZODICARBONAMIDE
* SILICA GEL (CAS No 99439-28-2)
* SILICONE (CAS No 90337-93-2)
* SURFACTANTS
  sodium lauryl sulphate (SLS, CAS No 151-21-3)
  sodium lauryl ether sulphate (SLES, CAS No 9004-82-4)
  TRITON (CAS No 9002-93-1)
  2-(2-aminoethylamino)ethanol (CAS No. 111-41-1)
* sulphur (s)
* sulphur dioxide (CAS No 7446-09-5)
* SYNTHETIC MINERAL FIBERS
* tert-Butylhydroquinone (TBHQ, CAS No 1948-33-0)
* tetrahydrofuran (THF, CAS No 109-99-9)

* THIURAMS
  - Tetramethyl thiuram disulfide (CAS No 137-26-8)
  - Tetraethyl thiuram disulfide (CAS No 97-77-8)
  - Tetramethyl thiuram monosulfide (CAS No 97-74-5)
  - Isobutyl thiuram disulfide (CAS No 3064-73-1)
  - Tetrabenzylthiuram disulfide (CAS No 10591-85-2)
  - Dipentamethylene thiuramtetrasulfide (CAS No 120-54-7)
* titanium acetyl acetonate (TAA, CAS No 77927-72-9)
* tributyl citrate (CAS No 77-94-1)
* tributyl phosphate (TBP, CAS No 126-73-8)
* Trimethyleamine (TMA, CAS No. 75-50-3)
* tris-Nonylphenol phosphite (TNPP, CAS No 26523-78-4)
* UV STABILIZERS and ABSORBERS
  - 2-hydroxybenzophenone (CAS No 117-99-7)
  - 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320, CAS No 3846-71-7)
  - 3-hydroxybenzophenone (CAS No 13020-57-0)
  - 4-hydroxybenzophenone (CAS No 1137-42-4)
  - 4-methylbenzophenone (CAS No 134-84-9)
  - BENZOPHENONE DERIVATIVES
    - benzophenone (CAS No 119-61-9)
    - benzotriazole (CAS No 95-14-7)
* vinylchloride monomer (VCM, CAS No 75-01-4)
* 2 naphthylamine (CAS No 91-59-8)
* 2-mercaptobenzothiazole (MBT, CAS No 149-30-4)
* 2-Pyrrolidone (CAS No. 616-45-5)
* 2,4-pentadione, acetilacetone (ACAC, CAS No 123-54-6)
* 2,4-di-tert-butylphenol (CAS No 96-76-4)
* 4-aminobiphenyl (CAS No 92-67-1)
* 4-aminodiphenyl
* 4-nitrodiphenyl
* 4-tert-butylphenol (CAS No 98-54-4)
* 4-tert-octylphenol (CAS No 140-66-9)
* 7-methyl-3-methylene-1,6-octadiene (Myrcene, CAS No 123-35-3)

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Date issued: 01/01/2024 - Valid until 31/12/2024