



a **berlin packaging** company

NIEDERLASSUNG PRESSIG

Novio Packaging GmbH
Jakobsberg 10
DE 96332 Pressig

Telefon:
Telefax:
E-Mail:
Web:

+49 (0) 9265 / 80680 - 10
+49 (0) 9265 / 80680 - 19
info.de@novio.eu
www.novio.eu

Novio Packaging GmbH, Jakobsberg 10, DE-96332 Pressig

Artikelspezifikation

Kunde	Müller + Krempel AG
Kunden Artikelreferenz	14.402.93
Kunden Lieferantennr.	111614

Inhalt:

- Artikelübersicht
- Artikelzeichnungsausschnitt
- Datenblätter:
 - Material
 - Farbe
 - Additive

Geschäftsführer:

Erik L. A. Trum
Marck C. M. Jansen

Bankverbindung:

Name VR Bank Oberfranken Mitte eG
IBAN DE63 7719 0000 0000 4207 27
SWIFT (BIC) GENODEF1KU1

Verwaltungssitz:

Sitz der Gesellschaft:

NL – 6604 Wijchen
DE – 96332 Pressig

Handelsregistereintrag:

UST.ID-Nr. (VAT):

Steuernummer:

Amtsgericht Coburg HRB 4496
DE 261179387
212/133/60083

Artikelübersicht

Artikelbezeichnung	Fitments (LDPE) natur mit mont. Hohlkugel (PP) natur 25,4 mm
Art. Nr. Novio	10003697 (alte Novio Artikel Nr. 211060020)
Stat. Waren Nummer	39235010
Ursprungsland	Deutschland (Kugel Irland)
Wiederbeschaffungszeit	Wir bitten um Verständnis, dass wir keine verbindlichen Angaben zu den Lieferzeiten machen können. Genaue Lieferzeiten (Perioden) können erst nach Erhalt der offiziellen Bestellung ermittelt werden.
Form	k.A.
Maße	Außen ø 30,9 mm / Gesamthöhe mit Kugel ca. 31,7 mm
Gewinde	Siehe Zgn
Nr. techn. Zeichnung	B0759-00 Zust A vom 11.01.2017
Gewicht	Ca. 5,0 mit Kugel
Nennvolumen	k.A.
Randvollvolumen	k.A.
Materialkennzeichnung	Fitment PE Lupolen 2426 H - Kugel PP – Total PPH7062
Farbe / Farb-Nummer / Pantone	natur
Leckage Prüfung	Wir möchten darauf hinweisen, dass die von uns erarbeitete Spezifikation lediglich eine Empfehlung darstellt. Wir geben keinerlei Garantie über die Wechselwirkung unseres spezifizierten Produktes mit anderen Packmitteln und Füllguten. Aufgrund der uns unbekanntem chemischen Zusammensetzung Ihres Füllgutes können wir die Verträglichkeit mit unseren Produkten nicht beurteilen. Die Verantwortung für die praktische Eignung in Verbindung mit dem Verwendungszweck können wir daher nicht übernehmen, auch wenn wir Sie bei der Entwicklung beraten haben. Bitte führen Sie daher in Ihrem Hause im eigenen Interesse Stabilitäts- und Dichtigkeitstests durch.
Menge pro Palette	48.000 Stk
Paletten Höhe	1,65 m
Palette stapelbar ja/nein	Nein
Menge pro Karton / Tray	1.600 Stk
Materialspezifikationen	Wir als Händler von Kunststoff Verpackungen können nur versichern, dass ausschließlich die in den Materialdatenblättern genannten Vormaterialien für die oben aufgeführten Artikel vom Hersteller verwendet werden und verweisen hier auf die beigefügten Spezifikation und den dazugehörigen Datenblättern vom Hersteller.

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Konformitätsbescheinigung – Lebensmittel / Unbedenklichkeit**211060020, B0759-00-0801-00K, Fitment mit Kugel 1 Zoll**

Wir, die Fa. [REDACTED] mbH, bestätigen, dass alle Verpackungsmittel, die aktuell und zukünftig an die Novio Packaging GmbH geliefert werden, den aktuellen deutschen Gesetzen, EU-Verordnungen & -Richtlinien und BfR-Empfehlungen für Lebensmittel-Verpackungen entsprechen (im Wesentlichen 1935/2004, 94/62/EWG, EU 10/2011, EG 1223/ 2009).

Die eingesetzten Materialien und Gegenstände, die in Kontakt zum Lebensmittel kommen, sind nach guter Herstellungspraxis so gefertigt, dass sie unter normalen oder vorhersehbaren Verwendungsbestimmungen keine Bestandteile auf das Lebensmittel abgeben, die geeignet sind, die Gesundheit zu gefährden, eine unvertretbare Zusammensetzung der Lebensmittel oder eine Beeinträchtigung der organoleptischen* Eigenschaften der Lebensmittel herbeizuführen.

Alle entsprechenden Erklärungen unserer Lieferanten liegen uns vor.

Die Fa. [REDACTED] GmbH verpflichtet sich, aktiv jede Änderung von Spezifikationen, Produktionsabläufen oder rechtlichen Bestimmungen, die das Verpackungsmittel betreffen könnten, Novio Packaging GmbH mitzuteilen.

Hinweis: Wir als nachgeschalteter Anwender haben keinerlei Einfluss auf die Zusammensetzung der vom Hersteller gelieferten Rohstoffe und müssen uns voll und ganz auf deren Angaben verlassen.

* Als organoleptische Prüfung bezeichnet man die Hilfsmittel freie Bewertung eines Objektes in Bezug auf Eigenschaften wie Geruch, Geschmack, Aussehen und Farbe durch eine Persönlichkeit, welche, Kraft ihrer wissenschaftlichen und technologischen Kenntnisse verbunden mit regelmäßiger Übung, hierzu befähigt ist.

Datum: 24.06.2020

Stempel:

[REDACTED]
i.A. [REDACTED]
(Quality Management)

[REDACTED] ND

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September 03, 2019

**Lupolen 2426H**

A product of Basell Sales & Marketing Company B.V.; Basell International Trading FZE

Dear [REDACTED]

The following is in response to your request for Product Stewardship Information (PSInfo) for the product listed above. The attached Product Stewardship Bulletin (PSB) details the regulatory status of this product.

LyondellBasell Industries responds to product stewardship requests with a standardized Product Stewardship Bulletin (PSB) which summarizes the global regulatory status of a product. LyondellBasell Industries will not complete customers' forms or questionnaires. Standardized responses provide each customer with consistent information in a timely fashion. Each request is reviewed to ensure our response documents provide relevant information.

Please note that compliance with these regulations should not be interpreted to guarantee that the product, will, in fact, perform in a particular application. Your Technical Service Representative can help you determine that the characteristics of the product are compatible with the desired conditions of use.

Should you have any further questions concerning a LyondellBasell product, or if we can assist in any other way, please do not hesitate to contact us.

Best regards,

Micaela Poltronieri
Product Safety Specialist
+39 0532 46 8087
micaela.poltronieri@lyondellbasell.com

LyondellBasell
Product Stewardship Information
Date: 9/3/2019

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Lupolen 2426H
Recipient Tracking #:
Request #: 2029824

Geschäftsführer:Erik L. A. Trum
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**Product
Stewardship
Bulletin****Lupolen 2426H**

A product of Basell Sales & Marketing Company B.V.; Basell International Trading FZE

Global Food Contact Status:**European Union**

This product complies with the relevant requirements of Regulation 1935/2004/EC (Framework Regulation) as applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes).

This product complies with the relevant requirements of Regulation 2023/2006/EC (GMP) and as amended, applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes).

This product complies with the relevant requirements of Regulation 10/2011/EC (PIM) as amended, applicable to intermediate materials (e.g. plastic powders, plastic granules or plastic flakes).

The monomers and additives used to produce this product are listed in the Union List of Authorized Substances of Regulation 10/2011/EC and subsequent amendments.

EU Regulation 10/2011/EC specifies 10 mg/dm² as the maximum overall migration (OML) from the finished plastic food contact material or article. The OML and SMLs (when applicable) should be determined according to the requirements specified in EU Regulation 10/2011/EC and subsequent amendments. The OML and SML determinations are the responsibility of the manufacturer of the finished plastic food contact material or article. In addition, 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.

Specific Migration Limits

This product does not contain monomers, additives or other components which have SMLs or QMAs as specified by Regulation 10/2011/EC.

This product contains one or more Dual Use Additives as defined in Regulation 10/2011/EC.

- ▶ E 551 Silicon Dioxide

United StatesLyondellBasell
Product Stewardship Information
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The base resin in this product meets the FDA requirements contained in the Code of Federal Regulations in 21 CFR 177.1520(a)(2)(i) and (c)2.2.

This product may also 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, the substances used in this product meet the requirements of their respective FDA regulations and 21 CFR 177.1520(b).

This product meets the FDA criteria in 21 CFR 177.1520 for food contact applications, including cooking, listed under conditions of use A 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.

China

GB4806.1-2016 - Food Contact Material & Articles General Safety Requirement

This product complies with relevant requirements of GB4806.1-2016 - Food Contact Material & Articles General Safety Requirement, as applicable to Plastic Resins.

GB31603-2015: General Hygiene Standard for Production of Food Contact Materials and Articles

The manufacturing process of this product complies with the relevant requirements of GB31603-2015, as applicable to polymer resin production.

GB4806.6-2016 - National Food Safety Standard: Food Contact Resins

The base resin in this product complies with the specifications established in GB4806.6-2016, "National Food Safety Standard: Food Contact Resins, Appendix A.1, Serial Number 91, resin type PE."

No monomer(s) with SMLs are present in this base resin.

GB9685-2016 - National Food Safety Standard: Additives for use in Food Contact Materials and Articles

The additives used in this product comply with the requirement of "GB9685-2016 National Food Safety Standard: Additives for use in Food Contact Materials and Articles" and relevant approval announcements.

Additives with Max Residual (QM), Specific Migration Limit (SML) and/or Total Specific Migration Limit (SML (T)) are not intentionally used in this product.

General Remarks

GB4806.1-2016 "Food Contact Materials & Articles -General Safety Requirement" Clause 8.4, requires only the manufacturer of the finished plastic food contact article to declare compliance with OML specification.

Final plastic food contact articles may have additional compliance requirements and are the responsibility of the manufacturer of the finished plastic food article.

South America

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MERCOSUR

This product contains only monomers and/or polymers listed on the positives list in Annex I, of MERCOSUR GMC RES. No. 2/12, Positive list of monomers and polymers to be used in packaging in contact with food.

This product contains only additives included in Annex 1, of MERCOSUR GMC RES. No. 32/07, Positive list of additives to be used in packaging in contact with food.

ANVISA

The base polymer of this product is listed in Annex II – Positive List of Polymers and Resins for Plastic Packaging and Equipment in Contact with Foodstuff - of Resolution N° 105, 19 May 1999.

This product contains only monomers and additives listed in Resolução RDC nº 17, de 17 de março de 2008, with no specific migration limitations.

Allergen Statements**Allergen - Food Allergen European Regulation 1169/2011**

The food ingredients listed in Annex II of Regulation (EU) No 1169/2011, are not used in the manufacture of or formulation of this product. However, this product has not been tested for these substances.

Biomedical Policy

This product(s) may not be used in:

(i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices, without prior notification to Seller for each specific product and application; or (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; (4) tobacco related products and applications; (5) electronic cigarettes and similar devices.

(iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include other country's equivalent regulatory classifications.

Animal Based Raw-Materials (BSE/TSE)

Components derived from animal sources are not used in the manufacture or formulation of this product.

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Tallow

Tallow derived components are not used in the manufacture or formulation of this product.

Epoxy Derivatives

The materials BADGE, BFDGE or NOGE are not intentionally added in this product as referenced in Commission Regulation 1895/2005/EC, on the use of certain epoxy derivatives in materials and articles intended to come into contact with foodstuffs as plasticizers, additives or raw materials.

California Prop 65

Please refer to the US SDS for communications regarding California Proposition 65.
In case US SDS is not available please contact global.chem.control@lyondellbasell.com.

Conflict Minerals (Dodd-Frank Wall Street Reform and Consumer Protection Act - September, 2010)

Please see link below for the position of LyondellBasell concerning this Act:

<https://www.lyondellbasell.com/en/investors/corporate-governance/?id=52>

The link to this document is located in the right margin under the heading "Corporate Governance Documents" titled "Conflict Minerals Policy".

Genetically Modified Organisms (GMO)

Additives derived from Genetically Modified Organisms (GMO's) are not intentionally used in the formulation of this product.

Halal Certification

This product is not certified as Halal.

Kosher Certification

This product is not certified Kosher.

Latex

No materials containing latex or natural rubber are used in the manufacturing, handling and packaging processes for this product.

Metals Content**US CONEG****Geschäftsführer:**Erik L. A. Trum
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Based on the available documentation provided by our raw material suppliers, this product complies with the CONEG Model Legislation for requirements regarding the defined limit for the sum of heavy metals (lead, mercury, cadmium and hexavalent chromium).

EU Packaging and Packaging Waste

Based on the available documentation from raw materials suppliers, this product complies with the directive 94/62/EC and as amended concerning the defined limit(s) of heavy metals.

Restriction of Hazardous Substances in Electric and Electronic Equipment (RoHS)

RoHS Regulation refers to electrical and electronic equipment and not specifically to plastic raw materials. However, based on the available documentation from raw materials suppliers, this product complies with the requirements of the Directives 2002/95/EC and 2011/65/EU, as amended, concerning the limits of cadmium, lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), bis(2-ethylhexyl)phthalate (DEHP), butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and diisobutyl phthalate (DIBP).

Nanomaterials

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

Other Chemicals

The chemical materials listed below are not intentionally used in the manufacture or the formulation of this product. However, this product has not been tested for these chemical materials.

- ▶ 2-(2H-1, 2, 3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol; (Benzotriazole); CAS# 3846-71-7;
- ▶ 2,4,4'-trichloro-2'-hydroxydiphenyl ether; (Triclosan); CAS# 3380-34-5;
- ▶ 2-mercaptobenzothiazole; MBT; CAS# 149-30-4;
- ▶ Acrolein; (propenal); (CAS# 107-02-8);
- ▶ Acrylamide; CAS# 79-06-1;
- ▶ Alkylphenols
- ▶ Aromatic amines;
- ▶ Asbestos;
- ▶ Azo Dyes and Pigments;

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▶ Polyaromatic Hydrocarbons - PAHs:

- 1,2-dihydro-acenaphthene; (CAS# 83-32-9);
- 9H-Fluorene; (CAS# 86-73-7);
- Acenaphthylene; (CAS# 208-96-8);
- Anthracene; (CAS# 120-12-7);
- Benz(a)anthracene; (CAS# 56-55-3);
- Benzo(a)pyrene; (CAS# 50-32-8);
- Benzo(b)fluoranthene; (CAS# 205-99-2);
- Benzo(e)pyrene; (CAS# 192-97-2);
- Benzo(ghi)perylene; (CAS# 191-24-2);
- Benzo(j)fluoranthene; (CAS# 205-82-3);
- Benzo(k)fluoranthene; (CAS# 207-08-9);
- Chrysene; (CAS# 218-01-9);
- Dibenz(a,h)anthracene; (CAS# 53-70-3);
- Fluoranthene; (CAS# 206-44-0);
- Indeno(1,2,3-cd)pyrene; (CAS# 193-39-5);
- Naphthalene; (CAS# 91-20-3);
- Phenanthrene; (CAS# 85-01-8);
- Pyrene; (CAS# 129-00-0);
- ▶ Benzophenone; CAS RN 119-61-9;
- ▶ Bisphenol A; (BPA); CAS# 80-05-7;
- ▶ Bisphenol A diglycidyl ether; (BADGE); CAS# 1675-54-3;
- ▶ Bisphenol F diglycidyl ether; BFDGE; CAS# 2095-03-6;
- ▶ Butylated hydroxyanisole; (BHA); CAS# 121-00-6 & 25013-16-5;
- ▶ Butylated hydroxytoluene; (BHT); CAS# 128-37-0
- ▶ Chlorinated paraffins;
- ▶ Cyanuric acid; (Isocyanuric Acid or CYA); CAS# 108-80-5;
- ▶ Dimethyl fumarate; (DMF); CAS# 624-49-7;
- ▶ Dioxins;
- ▶ Epichlorohydrin; (ECH); CAS# 106-89-8;
- ▶ Fluorocarbons;
- ▶ Fluorotelomers
- ▶ Formaldehyde; CAS# 50-00-0;
- ▶ Formaldehyde in specific conditions could be formed during further resin processing (see SDS)
- ▶ Gold(Au); CAS# 7440-57-5;
- ▶ Halogenated Flame Retardants
- ▶ Melamine; (1,3,5-Triazine-2,4,6-triamine); CAS# 108-78-1;
- ▶ Nonylphenol; CAS# 25154-52-3;
- ▶ Nonylphenol ethoxylates;

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- ▶ Novolac glycidyl ether;
- ▶ Organotin compounds;
- ▶ Perfluorochemicals; (PFCs);
- ▶ Perfluorooctane sulfonate; (PFOS); CAS# 1763-23-1;
- ▶ Perfluorooctanoic acid; (PFOA); CAS# 335-67-1;
- ▶ Polybrominated biphenyls; (PBBs);
- ▶ Polybrominated diphenyl ethers; (PDBEs);
- ▶ Polybrominated terphenyls; (PBTs);
- ▶ Polychlorinated biphenyls; (PCBs);
- ▶ Polychlorinated naphthalenes; (PCNs);
- ▶ Polychlorinated terphenyls; (PCTs);
- ▶ Polystyrene;
- ▶ Polyvinyl chloride; (PVC); CAS# 9002-86-2;
- ▶ Radioactive substances;
- ▶ Radon; CAS# 10043-92-2;
- ▶ Styrene monomer; CAS# 100-42-5;
- ▶ Sulphur dioxide; CAS# 7446-09-5;
- ▶ Tin oxide (SnO₂); (Cassiterite); CAS# 8062-08-6;
- ▶ Tris-nonylphenol phosphite; (TNPP); CAS# 26523-78-4;
- ▶ Vinyl chloride; CAS# 75-01-4;
- ▶ Wolframite; Tungsten (W); CAS# 1332-08-7;

Ozone Depleting Substances**European Union**

The ozone-depleting substances (ODS), listed in the Annexes I & II of the Regulation (EC) No 1005/2009 of 16 September 2009, are not intentionally used in the manufacture of or formulation of this product.

United States

Materials listed in the Clean Air Act Amendments of 1990 (Class I, CFCs and Class II, HCFC's, Halons and the solvents, carbon tetrachloride and 1,1,1-trichloroethane) are not intentionally used in the production of this product.

Phthalates

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Phthalates are not used in the manufacture of or the formulation of this product. However, this product has not been tested for phthalates.

REACH Substances of Very High Concern (SVHC)

This product does not contain any of the Annex XIV substances on the Authorisation list or Annex XIV candidate chemicals proposed to be Substances of Very High Concern for Authorisation (List as of July 16, 2019) above the 0.1 % threshold as stated in REACH (Article 57, Regulation No. 1907/2006) determined either through (i) non-use of the substance, (ii) mass balance calculation, or (iii) specific testing. The current list of all SVHCs can be found at ECHA website link listed below:

<https://www.echa.europa.eu/candidate-list-table>

Global Chemical Control Regulations

All ingredients in this product are in compliance with the following chemical inventories:

See Section 15, of the SDS (Safety Data Sheet) for Global Chemical Inventories.

VOC Content**Switzerland VOC Declaration**

This product contains less than 3% VOC's of the substances in the positive lists of the Switzerland Regulations "VOC-LENKUNGSABGABE."

CEN Standard EN 13432:2004

This product is not suitable for composting.

Energy Recovery - CEN Standard EN 13431:2004

The calorific gain from polyethylene in an energy recovery process is 22 MJ/Kg.

Disclaimer

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Trademarks

LyondellBasell
Product Stewardship Information
Date: 9/3/2019

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Lupolen 2426H
Recipient Tracking #:
Request #: 2029824

Geschäftsführer:

Erik L. A. Trum
Marck C. M. Jansen

Bankverbindung:

Name
IBAN
SWIFT (BIC)

VR Bank Oberfranken Mitte eG
DE63 7719 0000 0000 4207 27
GENODEF1KU1

Verwaltungssitz:**Sitz der Gesellschaft:**

NL – 6604 Wijchen
DE – 96332 Pressig

Handelsregistereintrag:**UST.ID-Nr. (VAT):****Steuernummer:**

Amtsgericht Coburg HRB 4496
DE 261179387
212/133/60083



a **berlin packaging** company

NIEDERLASSUNG PRESSIG

Novio Packaging GmbH
Jakobsberg 10
DE 96332 Pressig

Telefon:

Telefax:

E-Mail:

Web:

+49 (0) 9265 / 80680 - 10

+49 (0) 9265 / 80680 - 19

info.de@novio.eu

www.novio.eu

SEITE 15 VON 42

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Gen. Variant: SDS_DE

Version 1.2 Revision Date 08/30/2017 Print Date 09/03/2019 SDS No.: BE8224

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Lupolen 2426H
Synonyms : Ethene, homopolymer, PE
Substance name : Polyethylene
Substance No. : 9002-88-4
Chemical characterization : Polyethylene Homopolymer

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Manufacture of plastic articles by injection molding, extrusion or other conversion process.

Prohibited uses : FDA Class III medical devices; European class III medical devices; Health Canada class IV Medical Devices; Applications involving permanent implantation into the body; Life-sustaining medical applications

1.3 Details of the supplier of the safety data sheet

Company	Registration number	Telephone
Basell Sales & Marketing Company B.V. Delftseplein 27E 3013 AA Rotterdam Netherlands	NA	31 (0) 10 275 55 00
E-mail address	: product.safety@lyb.com	
Responsible/issuing person		

1.4 Emergency telephone number

Basell Sales & Marketing Company B.V. +32 3 575 1235

Poison Center:
Giftnotruf der Charité
DE: +49 30 19240
24 hours all days

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

3. Composition/information on ingredients

3.2 Mixtures

Ingredients

Chemical name	CAS-No. EC-No.	Classification (REGULATION (EC) No 1272/2008)	Weight %
Polyethylene	9002-88-4	Not Classified	> 99.5 %

Contains: Additives and stabilizers

4. First aid measures

4.1 Description of first-aid measures

- General advice : Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
In case of excessive inhalation of fumes that may be generated during heating of this material, move the person to fresh air.
Obtain medical attention.
Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR)
- In case of skin contact : If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer.
Do not attempt to peel polymer from skin as this will remove

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the skin.
 Obtain immediate emergency medical attention if burn is deep or extensive.

In case of eye contact : Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.

: 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.

If swallowed : Adverse health effects due to ingestion are not anticipated.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing.

Hazards : Dust contact with the eyes can lead to mechanical irritation.
 Molten polymer may cause thermal burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : SMALL FIRE:
 Use dry chemical, CO2, or water spray.

: LARGE FIRES:
 Use water spray hose nozzles from a safe location.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

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).

5.3 Advice for firefighters

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Special protective equipment for fire-fighters : Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.

Further 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

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Equip responders with proper protection.
Creates dangerous slipping hazard on any hard smooth surface.
Equip emergency responders with proper personal protective equipment (PPE)
Avoid generating dust.
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Potential combustible dust hazard.
Polymer particles create slipping hazard on hard smooth surfaces.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for containment / Methods for cleaning up : 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

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engineering practices. Reclaim where possible.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Material is in a pellet form.
If converted to small particles during further processing, handling, or by other means, may form combustible dust concentrations in air.
Avoid dust accumulation in enclosed space.
Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion hazard.
Static discharge (spark), or other ignition sources, in high dust environments may ignite the dust and result in a dust explosion
Electrostatic charge may build during conveying or handling. Equipment handling polymer should be conductive and grounded (earthed) and bonded.
Metal containers involved in the transfer of this material should be grounded and bonded.
All electrical equipment should conform to applicable electric codes and regulatory requirements for areas handling combustible dusts.
After handling, always wash hands thoroughly with soap and water.
When bringing the material to processing temperatures vapors may develop may condense in the exhaust ventilation. See section 10.

Fire-fighting class : Polymer will burn but does not easily ignite.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in a dry location.
Use good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation.
Store away from excessive heat and away from strong oxidizing agents.
Keep container closed to prevent contamination.
Take measures to prevent the build up of electrostatic charge.

7.3 Specific end use(s)

: See Section 1.2.

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8. Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Occupational Exposure Limits

Ingredients	CAS-No.	Type	Limit Value	Basis Revision Date	Additional Information
Materials that can be formed when handling this product: Non-specified (inert or nuisance) dust		TWA	10 mg/m3 inhalable	US (ACGIH) 2005	
Materials that can be formed when handling this product: Non-specified (inert or nuisance) dust		TWA	3 mg/m3 respirable	US (ACGIH) 2005	
Materials that can be formed when handling this product: Non-specified (inert or nuisance) dust		TWA	10 mg/m3 inhalable	TRGS 900 (DE)	
Materials that can be formed when handling this product: Non-specified (inert or nuisance) dust		TWA	1.25 mg/m3 respirable	TRGS 900 (DE)	

Consult local authorities for acceptable exposure limits.

8.2 Exposure controls

Engineering measures

Follow the recommendations in international standard NFPA 654 (as amended and adopted) for equipment used to handle this product.

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Engineering controls, i.e. enclosed systems, should be used whenever feasible to maintain exposures below acceptable criteria. When such controls are not feasible, or sufficient to achieve full conformance, other engineering controls such as local exhaust ventilation should be used. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal protective equipment

- 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** : Wear gloves that provide thermal protection where there is a potential for contact with heated material.
- Eye and face protection** : Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling this product.
- Skin and body protection** : Wear suitable protective clothing.
- Hygiene measures** : Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.
Use good personal hygiene practices.
Wash hands before eating, drinking, smoking, or using toilet facilities.
Take off contaminated clothing and wash before reuse.

Environmental exposure controls

- General advice** : See section 6.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Appearance	: Pellets.
Color	: Translucent to white
Odor	: Slight.
Flash point	: No Data Available.
Lower explosion limit	: The minimum explosive concentration (MEC) for polymer dust varies according to particle size distribution.
Upper explosion limit	: Not applicable.
Flammability (solid, gas)	: Polymer will burn but does not easily ignite.
Oxidizing properties	: Not considered an oxidizing agent.
Autoignition temperature	: > 300 °C
Decomposition temperature	: not determined
Melting point/range	: 50 - 170 °C
Boiling point/boiling range	: Not applicable.
Vapor pressure	: Not applicable.
Density	: < 1 g/cm ³
Water solubility	: Insoluble.
Partition coefficient: n-octanol/water	: No Data Available.
Viscosity, dynamic	: Not applicable.
Relative vapor density	: Not applicable.
Evaporation rate	: Not applicable.
Explosive properties	: No Data Available.

9.2 Other information

Other information : No additional information available.

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10. Stability and reactivity

10.1 Reactivity

No known reactivity hazards.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Will not occur.

10.4 Conditions to avoid

Conditions to avoid : Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

10.5 Incompatible materials

Materials to avoid : Material may be softened by some hydrocarbons.

10.6 Hazardous decomposition products

Hazardous decomposition products : Not expected to decompose under normal conditions.

Thermal decomposition : Note: Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Not classified

Acute inhalation toxicity : Not classified

Acute dermal toxicity : Not classified

Skin corrosion/irritation : Not a skin irritant.

Serious eye damage/eye irritation : Not an eye irritant.
Mechanical irritation is possible.

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Respiratory or skin sensitization : Not classified

Chronic toxicity

Carcinogenicity : Not classified

Germ cell mutagenicity : Not classified

Reproductive toxicity

Effects on fertility / : Not classified

Effects on or via lactation : Not classified

Effects on Development : Not classified

Target Organ Systemic Toxicant - Single exposure

: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Target Organ Systemic Toxicant - Repeated exposure

: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard : Not applicable.

12. Ecological information

12.1 Toxicity

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

12.2 Persistence and degradability

Biodegradability : Not expected to be biodegradable.

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12.3 Bioaccumulative potential

Bioaccumulation : This material is not expected to bioaccumulate.

12.4 Mobility in soil

Additional advice : This material is not volatile and insoluble in water.
Environmental fate and pathways

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological information : Ecotoxicity is expected to be minimal based on the low water solubility of polymers.
No data available on this product. However, birds, fish and other wildlife may eat pellets which may obstruct their intestinal tracts.

13. Disposal considerations

13.1 Waste treatment methods

Product : 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.

14. Transport information

Not regulated for transport

15. Regulatory information

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

Water contaminating class : nwg not water endangering (Germany)

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REACH status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that all substances in this preparation have been pre-registered or, where required under REACH, registered, and that we have the intention to proceed with their registration in accordance with the deadlines set forth in REACH. (Regulation (EU) No. 1907/2006)

Other international regulations

Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

Contact product.safety@lyb.com for additional global inventory information.

15.2 Chemical safety assessment

No information available.

16. OTHER INFORMATION

Material safety datasheet sections which have been updated:

Revised Section(s): 1 15 16 August 4 2017

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ACGIH_BEIs - American Conference of Governmental Industrial Hygienists_Biological Exposure Indices
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS - Australian Inventory of Chemical Substances

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ASTM - American Society for Testing and Materials
 BEL - Biological Exposure Limits
 BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
 CAS - Chemical Abstracts Service
 CEFIC - European Chemical Industry Council
 CLP - Classification Packaging and Labelling
 COC - Cleveland Open-Cup
 CS - Consumer Scenario
 DIN - Deutsches Institut für Normung
 DN(M)EL - Derived No (Minimal) Effect Level
 DSL - Canada Domestic Substance List
 EC - European Commission
 EC50 - Median Effective Concentration
 ECETOC - European Center on Ecotoxicology and Toxicology of Chemicals
 ECHA - European Chemicals Agency
 EL50 - Effective Loading fifty
 ELINCS - EHR-Lab Interoperability and Connectivity Specification
 ENCS - Japanese Existing and New Chemical Substances Inventory
 ERC - Environmental Release Category
 EUSES - European Union System for the Evaluation of Substances
 EWC - European Waste Code
 GHS - Globally Harmonized System of Classification and Labelling of Ch
 IARC - International Agency for Research on Cancer
 IATA - International Air Transport Association
 IC50 - Inhibitory Concentration fifty IL50 = Inhibitory Level fifty
 IMDG - International Maritime Dangerous Goods
 IECSC - Chinese Chemicals Inventory
 IOELV - Indicative Occupational Exposure Limit Values
 IP346 - Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics
 DMSO-extractables
 KECI - Korea Existing Chemicals Inventory
 Koc - Organic Carbon/Water Partition Coefficient
 LC50 - Lethal Concentration fifty
 LD50 - Lethal Dose fifty per cent.
 LL/EL/IL - Lethal Loading/Effective Loading/Inhibitory Loading
 LL50 - Lethal Loading fifty
 MAK Commission - Permanent Senate Commission for the Investigation of Health Hazards of
 Chemical Compounds in the Work Area
 MARPOL - International Convention for the Prevention of Pollution from Ships
 No. - Number
 NOEC/NOEL - No Observed Effect Concentration / No Observed Effect Level
 NZIoC - New Zealand Inventory of Chemicals
 OE_HP - Occupational Exposure - High Production Volume
 OECD - Organization for Economic Co-operation and Development
 OEL - Occupational Exposure Limit
 PBT - Persistent, Bio accumulative and Toxic
 PICCS - Philippine Inventory of Chemicals and Chemical Substances
 PNEC - Predicted No Effect Concentration
 PPE - Personal Protective Equipment
 PROC - Process Category
 QSAR - Quantitative Structure-Activity Relationship

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Geschäftsführer:

Erik L. A. Trum
Marck C. M. Jansen

Bankverbindung:

Name VR Bank Oberfranken Mitte eG
IBAN DE63 7719 0000 0000 4207 27
SWIFT (BIC) GENODEF1KU1

Verwaltungssitz:

NL – 6604 Wijchen
DE – 96332 Pressig

Sitz der Gesellschaft:

Handelsregistereintrag:
UST.ID-Nr. (VAT):
Steuernummer:

Amtsgericht Coburg HRB 4496
DE 261179387
212/133/60083

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



Lupolen 2426H

Gen. Variant: SDS_DE

Version 1.2 Revision Date 08/30/2017 Print Date 09/03/2019 SDS No.: BE8224

REACH - Registration Evaluation and Authorization of Chemicals
RID - Regulations Relating to International Carriage of Dangerous Goods by Rail
SDS - Safety Data Sheet
SKIN_DES - Skin Designation
STEL - Short term exposure limit
STP - Standard Temperature and Pressure
TCSCA - Taiwan inventory of chemicals
TGD - Technical Guidance Document
TRA - Targeted Risk Assessment
TSCA - US Toxic Substances Control Act
TWA - Time-Weighted Average
UN - United Nations
vPvB - very Persistent and very Bioaccumulative
WGK - German Water Endangerment Class

Disclaimer

Multiple legal entities and registration numbers may be displayed in Section 1. The Recipient shall refer to the shipping documents to identify the legal entity that supplied this product.

This document is generated for the purpose of distributing health, safety, and environmental data.

Information is correct to the best of our knowledge at the date of the SDS publication.

It is not a specification sheet nor should any displayed data be construed as a specification.

Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally.

SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

Users should review the applicable Safety Data Sheet before handling the product.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

The product(s) may not be used in:

- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;

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Geschäftsführer:

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DE63 7719 0000 0000 4207 27
GENODEF1KU1

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NL – 6604 Wijchen
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Disclaimer

(iii) life-sustaining medical applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification. In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

The presentation of numerical data, such as that used for physical and chemical properties and toxicological values, is expressed using a comma (,) to separate digits into groups of three and a period (.) as the decimal marker. For example, 1,234.56 mg/kg = 1 234,56 mg/kg. Adflex, Adstif, Adsyl, Akoafloor, Akoalit, Alastian, Alathon, Aquathene, Avant, Catalloy, Clyrell, Dexflex, Flexathene, Hifax, Hipolyene, Histif, Hostacom, Hostalen, Indure, Integrate, Koattro, Lucalen, Luflexen, Lupolen, Metocene, Microthene, Moplen, Nexprene, Petrothene, Plexar, Pristene, Pro-Fax, Purell, Sequel, SJS, Softell, Starflex, Ultrathene, and Valtec are trademarks owned or used by the LyondellBasell family of companies.

Numerical Data Presentation

The presentation of numerical data, such as that used for physical and chemical properties and toxicological values, is expressed using a comma (,) to separate digits into groups of three and a period (.) as the decimal marker. For example, 1,234.56 mg/kg = 1 234,56 mg/kg.

Language Translations

The information presented in this document has been translated from English by a vendor LyondellBasell believes to be reliable. LyondellBasell and its vendor have made a good-faith effort to verify the accuracy of the translation, but assume no liability or other responsibility for any errors that may have occurred. Please refer to our web site (www.lyondellbasell.com) for the original document written in English.

End of Material Safety Data Sheet

Geschäftsführer:

Erik L. A. Trum
Marck C. M. Jansen

Bankverbindung:

Name
IBAN
SWIFT (BIC)

VR Bank Oberfranken Mitte eG
DE63 7719 0000 0000 4207 27
GENODEF1KU1

Verwaltungssitz:

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Technical Data Sheet

Lupolen 2426H

Low Density Polyethylene



Product Description

Lupolen 2426 H is an additivated, low density polyethylene. It contains slip and anti-blocking agent. It is characterized by a good balance between processability and mechanical properties. Films made from Lupolen 2426 H exhibit good optical properties. It is delivered in pellet form.

This product is not intended for use in medical and pharmaceutical applications.

Regulatory Status

For regulatory compliance information, see [Lupolen 2426H Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Europe
Application	Bags & Pouches; Food Packaging Film; Hygiene Film; Liner Film; Shrink Film
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film
Attribute	Good Heat Seal; Good Optical Properties; Good Processability; Low Friction; Unspecified Antiblocking; Unspecified Slip

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	1.9	g/10 min	ISO 1133-1
Density	0.924	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	260	MPa	ISO 527-1, -2
Tensile Stress at Yield	11	MPa	ISO 527-1, -2
Film			
Dart Drop Impact Strength, F50	110	g	ASTM D1709
Tensile Strength			
MD	25	MPa	ISO 527-1, -3
TD	21	MPa	ISO 527-1, -3
Tensile Strain at Break			
MD	250	%	ISO 527-1, -3
TD	600	%	ISO 527-1, -3
Coefficient of Friction	<0.2		ISO 8295
Impact			
Failure Energy	4	J/mm	DIN 53373
Thermal			
Vicat Softening Temperature, (A/50 N)	94	°C	ISO 306
Peak Melting Point	111	°C	ISO 3146
Optical			
Haze, (50 µm)	<8	%	ASTM D1003

LyondellBasell
Technical Data Sheet
Date: 9/3/2019

Page 1 of 3

Lupolen 2426H
Recipient Tracking #:
Request #: 2029826

Geschäftsführer:

Erik L. A. Trum
Marck C. M. Jansen

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Name
IBAN
SWIFT (BIC)

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DE63 7719 0000 0000 4207 27
GENODEF1KU1

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Gloss		
(20°)	>50	ASTM D2457
(60°)	>100	ASTM D2457
Additive		
Slip, Erucamide	500 ppm	LYB Method
Antiblock, Natural Silica	1000 ppm	ISO 3451-1
Additional Information		
Test Specimen	Film	
Film properties tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 2.5:1.		
Processing Parameters		
Extrusion Temperature	160-200 °C	

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

In cases where higher temperatures are required, please contact your appropriate technical contact for support.

Further Information

Health and Safety:

The resin is manufactured to the highest standards, but special requirements apply to certain applications such as food end-use contact and direct medical use. For specific information on regulatory compliance contact your local representative.

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal precaution to prevent mechanical or thermal injury to the eyes.

Molten polymer may be degraded if it is exposed to air during any of the processing and off-line operations. The products of degradation may have an unpleasant odor. In higher concentrations they may cause irritation of the mucus membranes. Fabrication areas should be ventilated to carry away fumes or vapours. Legislation on the control of emissions and pollution prevention should be observed.

The resin will burn when supplied with excess heat and oxygen. It should be handled and stored away from contact with direct flames and/or ignition sources. While burning, the resin contributes high heat and may generate a dense black smoke.

Recycled resins may have previously been used as packaging for, or may have otherwise been in contact with, hazardous goods. Converters are responsible for taking all necessary precautions to ensure that recycled resins are safe for continued use.

For further information about safety in handling and processing please refer to the Safety Data Sheet.

Conveying:

Conveying equipment should be designed to prevent production and accumulation of fines and dust particles that are contained in polymer resins. These particles can under certain conditions pose an explosion hazard. Conveying systems should be grounded, equipped with adequate filters and regularly inspected for leaks.

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DE63 7719 0000 0000 4207 27
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Storage:

The resin is packed in 25 kg bags, octabins or bulk containers protecting it from contamination. If it is stored under certain conditions, i. e. if there are large fluctuations in ambient temperature and the atmospheric humidity is high, moisture may condense inside the packaging. Under these circumstances, it is recommended to dry the resin before use. Unfavorable storage conditions may also intensify the resin's slight characteristic odor.

Resin should be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage. Higher storage temperatures may reduce the storage time.

The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. This information does not remove the obligation of the customer to inspect the material on arrival and notify us of any faults immediately. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.

Geschäftsführer:Erik L. A. Trum
Marck C. M. Jansen**Bankverbindung:****Name**
IBAN
SWIFT (BIC)VR Bank Oberfranken Mitte eG
DE63 7719 0000 0000 4207 27
GENODEF1KU1**Verwaltungssitz:****Sitz der Gesellschaft:**NL – 6604 Wijchen
DE – 96332 Pressig**Handelsregistereintrag:****UST.ID-Nr. (VAT):****Steuernummer:**Amtsgericht Coburg HRB 4496
DE 261179387
212/133/60083

Konformitätsbescheinigung - REACH-Verordnung

211060020, [REDACTED], Fitment mit Kugel 1 Zoll

wir danken Ihnen für Ihre Anfrage zur Einhaltung der Verordnung (EG) Nr. 1907/2006 (REACH). Wir werden die durch die REACH an uns gestellten Anforderungen erfüllen. Bezüglich Artikel 33 von REACH teilen wir Ihnen folgendes mit:
Die erste Kandidatenliste, Stand 28. Oktober 2008, gemäß Artikel 59 (1, 10) der Verordnung (EG) Nr. 1907/2006 („REACH“) wurde publiziert.
Besonders besorgniserregende Stoffe (SVHC-Substances of very high concern) gelten hinsichtlich der REACH-Verordnung als zulassungspflichtige Stoffe. Sie werden im Anhang XIV der Verordnung aufgeführt. Die Europäische Chemikalienagentur ECHA hat auf Ihrer Internetseite eine Liste besonders besorgniserregender Stoffe veröffentlicht, die in regelmäßigen Abständen aktualisiert wird.
http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

Diese Liste erfüllt die Kriterien des Art. 57 der oben bezeichneten REACH-Verordnung und wurde nach dem Verfahren des Art. 59 der Verordnung ermittelt.
(siehe Website der Europäischen Chemikalienagentur ECHA;
http://echa.europa.eu/chem_data_en.asp).
Das Erzeugnis sowie die Verpackung enthalten keine Stoffe über 0,1 Massen-%, die in der Kandidatenliste aufgeführt sind.

Der Lieferant erfüllt des Weiteren gegenüber der **Novio Packaging GmbH** sämtliche ihm obliegenden Pflichten zur Informationsübermittlung hinsichtlich der gelieferten Stoffe. Dies gilt insbesondere für Risikominderungsmaßnahmen, die beim Umgang mit den Stoffen zu berücksichtigen sind. Vorhandene Sicherheitsdatenblätter können, wenn gewünscht, sehr gerne übermittelt werden.

Datum: 24.06.2020

Stempel:

Mit freundlichen Grüßen

[REDACTED]
i.A.[REDACTED]
i.A.


(Quality Management)

Geschäftsführer:Erik L. A. Trum
Marck C. M. Jansen**Bankverbindung:****Name**
IBAN
SWIFT (BIC)VR Bank Oberfranken Mitte eG
DE63 7719 0000 0000 4207 27
GENODEF1KU1**Verwaltungssitz:****Sitz der Gesellschaft:**NL – 6604 Wijchen
DE – 96332 Pressig**Handelsregistereintrag:****UST.ID-Nr. (VAT):****Steuernummer:**Amtsgericht Coburg HRB 4496
DE 261179387
212/133/60083



Title: Customer Specification		No: WD85	
Status: Approved	Rev: 04	Date: 17/10/11	Page 1 of 1.

Ball - Specification

Item:	1" (25.40mm) Hollow Ball
WPPG Code:	123103
Customer:	
Material:	Total PPH7062 - EU/FDA approved resin
Colour:	Natural
Ball size:	25.40 mm ± 0.075mm
Drawing:	1Z-12310-00-01
Weight:	1.5g ± 0.5g
Box quantity:	4000 pcs
Box size:	585 x 370 x 268 mm app. Balls packed in PE-liner
Pallet quantity:	20 boxes = 80,000 pcs
Pallet size:	1000 x 1200mm ind-pallet
Gross pallet weight:	app. 163kg
Pallet height:	app. 165 cm

*** Specification valid for supply from Weener Plastics Ltd Ireland ***

For our records, Weener Plastics Ltd. must receive signed confirmation below. This confirmation must be returned to the Quality Department at Weener Plastics Ltd. If Weener plastics Ltd do not hear anything to the contrary within 14days, your acceptance of this specification will be assumed.

Approved by:

Quality Dept

Customer approval:

Name: _____

Title: _____

Signature: _____

Date: ___/___/20___

Note: Any changes made on our process or equipment related to the finished product quality will be reported to the customer immediately.

Weener Plastics Ltd., Dromcolliher, Co. Limerick – Republic of Ireland

+353 63 83 118

FAX: +353 63 83 244

E-mail: info@wppg.ie
http://www.wppg.com

Registered in Republic of Ireland No. 59757 Registered Office: Dromcolliher, Co. Limerick
Directors: J. Schröder (German), T.M. Wallace, L. Quaid, L.E. Bakker (Dutch)

Geschäftsführer:

Erik L. A. Trum
Marck C. M. Jansen

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NL – 6604 Wijchen
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Steuernummer:

Amtsgericht Coburg HRB 4496
DE 261179387
212/133/60083



Refining & Chemicals

Total Research & Technology Feluy
IP & Regulatory Affairs Department
Regulatory Affairs
Tel. : +32 (0)64 51 40 67
Fax.: +32 (0)64 51 41 49
rc.fer-regaffairs@total.com

Letter: JT/SLI/15L00256

Feluy, 13/04/2015

PRODUCT STEWARDSHIP CERTIFICATE

**ALL POLYPROPYLENE PPC, PPH, PPM, PPR, PPS AND LUMICENE PRODUCTS
(Manufactured in Europe)**

A. ABSENCE OF SUBSTANCES

We hereby confirm that we do not intentionally use the following substances in the manufacturing of the above-mentioned Products:

1	ALLERGEN SUBSTANCES as listed in Annex II of Regulation (EU) 1169/2011, replacing Directive 2007/68/EC	
2	ANTIMONY TRIOXIDE	CAS No 1309-64-4
3	AROMATIC AMINES as listed in Regulation 1907/2006/EC Annex XVII Appendix 8	Replaces Directive 2002/61/EC (19 th amendment of Directive 76/769/EEC).
4	ASBESTOS as listed in Regulation 1907/2006/EC Annex XVII	Replaces Directive 2003/18/EC (amending Council Directive 83/477/EC)
5	AZOCOLORANTS as listed in Regulation 1907/2006 Annex XVII Appendixes 8 and 9	Replaces Directive 2002/61/EC (19 th amendment of Directive 76/769/EEC).
6	BENZOPHENONE DERIVATIVES	We mean the following substances by benzophenone derivatives : Benzophenone (CAS No 119-61-9), 2-hydroxybenzophenone (CAS No 117-99-7), 3-hydroxybenzophenone (CAS No 13020-57-0), 4-hydroxybenzophenone (CAS No 1137-42-4), 4-methylbenzophenone (CAS No 134-84-9),
7	BIOCIDAL PRODUCTS as defined in Article 3(1)(a) of the Regulation (EU) No 528/2012	We can hereby confirm that we do not intentionally incorporate any biocidal products as additive* in the here above mentioned products
8	BISPHENOL A, BISPHENOL F and BISPHENOL S	CAS No 80-05-7, CAS No 620-92-8 and CAS No 80-09-1
9	BHA (ter-Butyl-4-hydroxyanisole)	CAS No 25013-16-5
10	BHT (2,6-di-ter-butyl-p-cresol)	CAS No 128-37-0
11	CHLORINATED ALIPHATIC COMPOUNDS	We mean the following substances by chlorinated aliphatic compounds: tetrachloromethane (CAS No 56-23-5), 1,1,2,2-tetrachloroethane (CAS No 79-34-5), 1,1,1,2-tetrachloroethane (CAS No: 630-20-6), pentachloroethane (CAS No 76-01-7), trichloromethane (chloroform; CAS No 67-66-3), 1,1,2-trichloroethane (CAS No 79-00-5), 1,1-dichloroethylene (CAS No 75-35-4), 1,1,1-trichloroethane (CAS No 71-55-6).

Issued by an electronic system

1/7

Total Research & Technology Feluy
Zone Industrielle Feluy C – B-7181 Seneffe – Belgique.
Tel. : +32 (0)64 51 41 11
Fax.: +32 (0)64 54 08 45
E-mail: research-feluy@total.com

Geschäftsführer:

Erik L. A. Trum
Marck C. M. Jansen

Bankverbindung:

Name
IBAN
SWIFT (BIC)

VR Bank Oberfranken Mitte eG
DE63 7719 0000 0000 4207 27
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Refining & Chemicals

Total Research & Technology Feluy
IP & Regulatory Affairs Department
Regulatory Affairs
Tel. : +32 (0)64 51 40 67
Fax.: +32 (0)64 51 41 49
rc.fer-regaffairs@total.com

12	CHLOROFLUOROCARBONS (CFC), HYDROGENATED CHLOROFLUOROCARBONS (HCFC) AND HALONES	
13	CMR SUBSTANCES as listed in Regulation 1272/2008/EC Annex VI	We can hereby confirm that we do not use substances classified Carcinogens, Mutagens or toxic to Reproduction categories 1 and 2 as listed in Regulation 1272/2008/EC, as additive*
14	CONFLICT MINERALS (Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Act)	We can hereby confirm that we do not use the following conflict minerals as additive*: cassiterite, columbite-tantalite, wolframite, tin, tantalum, tungsten and gold
15	COSMETIC prohibited ingredients as listed in Annex II of the REGULATION (EC) 1223/2009 on COSMETIC PRODUCTS	We can hereby confirm that we do not use substances mentioned in Annex II of the REGULATION (EC) 1223/2009 as additive*
16	DIMETHYLFUMARATE Directive 2009/251/EC	CAS No 624-49-7
17	DIOXINS AND DIFURANS	
18	ENDOCRINE DISRUPTORS category I and II mentioned in Annex 13 of the final report of BKH STUDY 2000	We can hereby confirm that we do not use any of the 118 chemicals category I (evidence of Endocrine disrupting activity) and category II (chemicals showed some evidence suggesting potential activity) mentioned in Annex 13 of the final report of BKH STUDY 2000, as additive*. Nevertheless, we inform you that traces of Dibutylphthalate (DBP) may be present in some of our products as catalyst modifier residues. The maximum residue would not exceed 1 ppm.
19	EPOXIDIZED SOYA BEAN OIL (ESBO)	CAS No 8013-07-8
20	EPOXY DERIVATIVES Regulation 1895/2005/EC	2,2-bis (4-hydroxyphenyl) propane bis (2,3-epoxypropyl) ether ('BADGE'), bis(hydroxyphenyl) methane bis (2,3-epoxypropyl) ethers ('BFDGE') and novolac glycidyl ethers ('NOGE')
21	ETHANOL	CAS No 64-17-5
22	FLAME RETARDANTS	
23	FORMALDEHYDE	CAS No 50-00-0
24	HALOGENS	Fluorine (CAS No 7782-41-4), Chlorine (CAS No 7782-50-5), Bromine (CAS No 7726-95-6), Iodine (CAS No 7553-56-2)
25	HEAVY METALS Directive 94/62/EC and Directive 2004/12/EC	The overall concentration of cadmium, mercury, lead and chromium is lower than 100 ppm (w/w).
26	ISOPROPYLTHIOXANTHONE (ITX)	CAS No 5495-84-1 and CAS No 83846-86-0
27	LATEX	We mean the following by latex: "a white, tacky, aqueous suspension of a hydrocarbon polymer occurring naturally in some species of trees, shrubs, or plants, or made synthetically".
28	MELAMINE and CYANURIC ACID	CAS No 108-78-1 / CAS No 108-80-5
29	MOSH (Mineral Oil Saturated Hydrocarbons), MOAH (Mineral Oil Aromatic Hydrocarbons), & Mineral Oil	We can hereby confirm that we do not use MOSH, MOAH nor Mineral Oil as additive*. However, we inform you that some trace amount of Mineral Oil can be present in some of here above mentioned products as a manufacturing process residue. This Mineral Oil is included in the Union List of the authorized substances for the manufacturing of plastic materials intended to come into contact with food

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Total Research & Technology Feluy
Zone Industrielle Feluy C - B-7181 Seneffe - Belgique.
Tel. : +32 (0)64 51 41 11
Fax.: +32 (0)64 54 08 45
E-mail: research-feluy@total.com

Geschäftsführer:

Erik L. A. Trum
Marck C. M. Jansen

Bankverbindung:

Name
IBAN
SWIFT (BIC)

VR Bank Oberfranken Mitte eG
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Refining & Chemicals

Total Research & Technology Feluy
IP & Regulatory Affairs Department
Regulatory Affairs
Tel. : +32 (0)64 51 40 67
Fax.: +32 (0)64 51 41 49
rc.fer-regaffairs@total.com

30	N_METHYLPYRROLIDONE (NMP)	CAS No 872-50-4
31	NONYLPHENOL AND NONYLPHENOLETHOXYLATES as listed in Regulation 1907/2006/EC Annex XVII	Replaces Directive 2003/53/EC (26 th amendment of Directive 76/769/EEC).
32	ORGANOTIN COMPOUNDS Decision 2009/425/EC	We mean the following substances by organotin compounds: Monobutyltin compounds (MBT), Dibutyltin compounds (DBT), Dioctyl Tin compounds (DOT), Tributyltin compounds (TBT), Triphenyltin compounds (TPT) and Tributyltin Oxide (TBTO)
33	OZONE-DEPLETING SUBSTANCES - Regulation 1005/2009/EC - The Montreal Protocol on Substances that deplete the Ozone Layer, as last adjusted and/or amended in Beijing 9-1999 (UNEP-United Nation Environment Program) - The United States (Clean Air Act, as amended in 1990, title VI, section 602 (a), class I and II.	CFCs, Halons, Other fully halogenated CFCs, Carbon tetrachloride, 1,1,1-Trichloroethane (Methyl chloroform), Hydrochlorofluorocarbons (HCFC), Hydrobromofluorocarbons (HBFC), Methyl bromide, Bromochloromethane.
34	PENTACHLOROPHENOL as listed in Regulation 1907/2006/EC Annex XVII	Replaces Directive 1999/51/EC
35	PERFLUOROCTANE SULFONATE (PFOS) AND PERFLUOROCTANOIC ACID (PFOA) as listed in Regulation 1907/2006/EC Annex XVII	Replaces Directive 2006/122/EC (30 th amendment of Directive 76/769/EEC)
36	PESTICIDES, HERBICIDES as defined in Directive 91/414/EC	To the best of our knowledge, we do not use as additive* any pesticides and herbicides that: - protect plants or plant products against all harmful organisms or prevent the action of such organisms, in so far as such substances - influence the life processes of plants, other than a nutrient (e.g. growth regulators); - preserve plant products, in so far as such substances or products are not subject to special Council of Commission provisions on preservatives; - destroy undesired plants; or - destroy parts of plants, check or prevent undesired growth of plants; in the finished article
37	PHTHALATES	We can hereby confirm that we do not use any Phthalates as additive* in the here above mentioned products. Nevertheless, we inform you that traces of Phthalates may be present in some of our products, as catalyst modifier residues. The maximum residue would not exceed 1ppm.
38	POLYBROMOBIPHENYLS and POLYBROMODIPHENYLEETHERS - Regulation 1907/2006/EC Annex XVII - Directive 2002/96/EC - Directive 2002/95/EC, Directive 2011/65/EU	Regulation 1907/2006/EC replaces Directive 2003/11/EC (24 th amendment of Directive 76/769/EEC) This includes penta-, octa-, decabromobiphenylethers.
39	POLYCHLORINATED BIPHENYLS (PCB)	
40	POLYCHLORINATED NAPHTHALENES (PCN)	

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Total Research & Technology Feluy
Zone Industrielle Feluy C – B-7181 Seneffe – Belgique.
Tel. : +32 (0)64 51 41 11
Fax.: +32 (0)64 54 08 45
E-mail: research-feluy@total.com

Geschäftsführer:

Erik L. A. Trum
Marck C. M. Jansen

Bankverbindung:

Name
IBAN
SWIFT (BIC)

VR Bank Oberfranken Mitte eG
DE63 7719 0000 0000 4207 27
GENODEF1KU1

Verwaltungssitz:

Sitz der Gesellschaft:

NL – 6604 Wijchen
DE – 96332 Pressig

Handelsregistereintrag:

UST.ID-Nr. (VAT):

Steuernummer:

Amtsgericht Coburg HRB 4496
DE 261179387
212/133/60083



Refining & Chemicals

Total Research & Technology Feluy
IP & Regulatory Affairs Department
Regulatory Affairs
Tel. : +32 (0)64 51 40 67
Fax.: +32 (0)64 51 41 49
rc.fer-regaffairs@total.com

41	POLYCHLORINATED TERPHENYLS (PCT)	
42	POLYCYCLIC AROMATIC HYDROCARBONS (PAH) as listed in Regulation 1907/2006/EC Annex XVII	Replaces Directive 2005/69/EC (27 th amendment to Directive 76/769/EC).
43	POLYVINYLCHLORIDE (PVC) and VINYLCHLORIDE MONOMER	
44	PROPOSITION 65, March 27, 2015	Chemicals listed in the Proposition 65, California Safe Drinking Water and Toxic Enforcement Act of 1986, dated March 27, 2015 (chemicals list that you can find at the following web address: http://www.oehha.org/prop65/prop65_list/Newlist.html). We can hereby confirm that we do not use the chemicals mentioned in this list as additive*. However, some trace amount of Di-isobutyl phthalate (DIBP) and Dibutyl phthalate (DBP), may be present in some of our products, as catalyst modifier residues.
45	RADIOACTIVE SUBSTANCES as defined in Directive 96/29/EURATOM	Laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation.
46	RECYCLED MATERIALS	Following definition of Commission Regulation 282/2008/EC
47	SEMICARBAZIDE and AZODICARBONAMIDE as defined in Directive 2004/1/EC	
48	SHORT CHAINED CHLORINATED PARAFFINS as listed in Regulation 1907/2006/EC Annex XVII	Replaces Directive 2002/45/EC (20 th amendment of Directive 76/769/EEC)
49	SILICONE	CASNo 63148-53-8, 63394-02-5, 90337-93-2, 63148-62-9
50	TITANIUM ACETYL ACETONATE (TAA)	CAS No 77927-72-9
51	TRICLOSAN (2,4,4'-Trichloro-2'-hydroxydiphenyl Ether) Decision 2010/169/EU	CAS No 3380-34-5
52	TRIS(NONYLPHENYL) PHOSPHITE (TNPP)	CAS No 26523-78-4

* Additive as defined in Regulation (EU) 10/2011

However, since we do not systematically perform specific test to verify the potential presence of these substances in the above-mentioned Products, we cannot guarantee that there is no trace amount of these substances, as impurity or otherwise, in the above-mentioned Products. Moreover, it cannot be excluded that in specific conditions of processing or incineration certain of the above-mentioned substances might be generated as mentioned in the relevant safety data sheet.

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Total Research & Technology Feluy
Zone Industrielle Feluy C – B-7181 Seneffe – Belgique.
Tel. : +32 (0)64 51 41 11
Fax.: +32 (0)64 54 08 45
E-mail: research-feluy@total.com

Geschäftsführer:

Erik L. A. Trum
Marck C. M. Jansen

Bankverbindung:

Name
IBAN
SWIFT (BIC)

VR Bank Oberfranken Mitte eG
DE63 7719 0000 0000 4207 27
GENODEF1KU1

Verwaltungssitz:
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NL – 6604 Wijchen
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DE 261179387
212/133/60083

**Refining & Chemicals**Total Research & Technology Feluy
IP & Regulatory Affairs Department
Regulatory Affairs
Tel. : +32 (0)64 51 40 67
Fax.: +32 (0)64 51 41 49
rc.fer-regaffairs@total.com**B. COMPLIANCE WITH REGULATIONS.**

CONEG (Coalition of the North-eastern Governors (CONEG, USA) the above-mentioned Products meet the requirements of less than 100ppm overall concentration of cadmium, mercury, lead and chromium

DECRET 2007-1467 (Article 4) and ENVIRONMENTAL CODE (book V-title IV-chapter III-section V)-dated on 10 November 2008.

We inform you that the "Décret" 98-638 is repealed by article 4 of the French "Décret" 2007-1467 (dated 12 October 2007). We hereby certify that the above-mentioned Products meet the requirements of the article R543-44 item 2b and article R543-45 of Environmental Code (book V) imposing to take into account environmental requirements in the conception and in the manufacturing of packaging material as far as the following articles are concerned:

Article R 543-44 - item 2 (b):

- the above mentioned Products are intended for the manufacture of packaging materials;
- the above-mentioned Products are recyclable by melting and pelletizing;
- the above-mentioned Products have a heat of combustion sufficient to enable to optimize energy recovery (*).

Article R 543-45:

The total of the concentrations of lead + cadmium + mercury + hexavalent chromium does not exceed 100 ppm.

We kindly remind you that the above-mentioned articles of the Code concern the packaging material as end product, for which we cannot provide any guarantee.

(*) The control of the combustion conditions and the technical measures related thereto cannot be controlled by the manufacturer of the above-mentioned Products and thus do not fall within his responsibility."

Directive 76/769/EC and Reach Annex XVII

Directive 76/769/EC relating to restrictions on the marketing and use of certain dangerous substances and preparations, established in its Annex I restrictions for certain dangerous substances and preparations. Regulation 1907/2006/EC (Reach Regulation) repealed and replaced Directive 76/769/EC from 1 June 2009 onwards. Annex XVII, published as Regulation 552/2009/EC amending Regulation 1907/2006/EC, replaces Annex I to Directive 76/769/EC.

We herewith confirm that the above-mentioned Products comply with Regulation 552/2009/EC.

ECO-Profiles of the European Plastics Industry: We inform you that our Company contributed to the establishment of the ECO-Profiles and that these are representative for the above-mentioned Products under the conditions laid down in the Plastics Europe Report May 2009.

END OF LIFE VEHICLES Directive: We hereby confirm that the above-mentioned Products comply with the Directive 2000/53/EC on end of life of vehicles with respect to the heavy metals content limit defined in the notes of the Decision 2002/525/EC because the overall concentration of lead, chromium and mercury is lower than 0.1% by weight, and the concentration of cadmium is lower than 0.01% by weight.

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Total Research & Technology Feluy
Zone Industrielle Feluy C - B-7181 Seneffe - Belgique.
Tel. : +32 (0)64 51 41 11
Fax.: +32 (0)64 54 08 45
E-mail: research-feluy@total.com**Geschäftsführer:**Erik L. A. Trum
Marck C. M. Jansen**Bankverbindung:****Name**
IBAN
SWIFT (BIC)VR Bank Oberfranken Mitte eG
DE63 7719 0000 0000 4207 27
GENODEF1KU1**Verwaltungssitz:****Sitz der Gesellschaft:**NL - 6604 Wijchen
DE - 96332 Pressig**Handelsregistereintrag:****UST.ID-Nr. (VAT):****Steuernummer:**Amtsgericht Coburg HRB 4496
DE 261179387
212/133/60083

**Refining & Chemicals**Total Research & Technology Feluy
IP & Regulatory Affairs Department
Regulatory Affairs
Tel. : +32 (0)64 51 40 67
Fax.: +32 (0)64 51 41 49
rc.fer-regaffairs@total.com

GENETICALLY MODIFIED ORGANISMS: We hereby confirm that we received confirmation of our suppliers of additives* used in the above mentioned products mentioning the absence of genetically modified organisms (GMO).

HALAL/KOSHER: We inform you that the above-mentioned products have not received Halal/Kosher certification. However, we can hereby confirm that we do not use, Ethanol (CAS No 64-17-5) nor substances which are of animal origin, as additives (as defined in Regulation (EU) 10/2011) in the here above mentioned products.

Packaging Waste Directive: We hereby confirm that the above-mentioned Products comply with Directive 94/62/EC and Directive 2004/12/EC on Packaging Waste with respect to the heavy metals content limit because the overall concentration of cadmium, mercury, lead and chromium is lower than 100 ppm (w/w) to be checked for other requirements.

RoHS and WEEE: We hereby inform you that Directive 2002/95/EC and Directive 2011/65/EU (on the Restriction of the use of certain Hazardous Substances: RoHS) does not cover the above-mentioned Products as "raw materials" but it only applies to the "electrical and electronic equipment" as finished products defined in the Annex IA under categories 1,2,3,4,5,6,7 and 10 of the European Directive 2002/96/EC (on Waste Electrical and Electronic Equipment: WEEE). Nevertheless, we hereby confirm that neither the flame retardants polybromo biphenyls (PBB) nor polybromodiphenylethers (PBDE) are used (this includes penta-, octa-, decabromodiphenylethers) in the manufacturing of the above-mentioned Products. Moreover, a certificate that includes a heavy metals statement (including lead, cadmium, mercury and chromium) is included herein.

SAFETY DATA SHEETS (Regulation 1907/2006/EC) : We recommend before using the above-mentioned Products to carefully read the Safety Data Sheets which can be downloaded from the website: <http://www.totalrefiningchemicals.com> Our customers receive automatically a Safety Data Sheet after their first order and when they make a new order after a period that is longer than 12 months. They will also receive automatically a Safety Data Sheet when modifications have been made.

TRANSMISSIBLE BOVINE SPONGIFORM ENCEPHALOPATHY (BSE): We hereby confirm that we received confirmation of our suppliers of additives* used in the above mentioned products mentioning the absence of substances of animal origin. Based on this information, we are confident that the above mentioned products are free of any Specific Risk Materials (SRM).

* Additive as defined in Regulation (EU) 10/2011

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Total Research & Technology Feluy
Zone Industrielle Feluy C - B-7181 Seneffe - Belgique.
Tel. : +32 (0)64 51 41 11
Fax.: +32 (0)64 54 08 45
E-mail: research-feluy@total.com**Geschäftsführer:**Erik L. A. Trum
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IBAN
SWIFT (BIC)VR Bank Oberfranken Mitte eG
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DE 261179387
212/133/60083

**Refining & Chemicals**Total Research & Technology Feluy
IP & Regulatory Affairs Department
Regulatory Affairs
Tel. : +32 (0)64 51 40 67
Fax.: +32 (0)64 51 41 49
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We can hereby confirm that we do not use as additive* any substances listed in these norms and standards above the limit values. The here above mentioned products are plastics and we therefore made reference to the respective parts of these norms and standards. Furthermore, we inform you that we do not test each grade we sell to check the potential presence of trace amounts of each chemicals hereafter listed which could be present in the here above mentioned products as impurities or otherwise.

- 1. IKEA IOS-MAT-0010** (version **AA-10911-10**, dated **2011-05-13**), **IKEA IOS-MAT-0054** (version AA-92520-9, dated **2013-06-07**), **IKEA IOS-PRG-0021** (version AA-31847-7, dated **2011-10-14**).
- 2. BOSCH NORM N 2580-1** (2014-03-20)
- 3. GADSL - GLOBAL AUTOMOTIVE DECLARABLE SUBSTANCE List – 2014** (VDA-LIST 232-101 (dated 2003) has been officially replaced by the globally GADSL, Renault and General Motor manufacturers recently joined the IMDS/GADSL community).
- 4. SONY TECHNICAL STANDARDS** (SS-00259, 13th Edition 2014)

* Additive as defined in Regulation (EU) 10/2011

Our certificate does not cover:

- any modification of The Product by any addition of any other product to it,
- any prejudicial modification of The Product resulting from a processing of The Product,
- an inadequate use and/or storage of The Product and of the finished articles.

The present certificate is based on the status of the legislation at the date written above and is valid until **end 2016**.
It can be renewed upon request.

All EC Regulations can be downloaded or requested free of charge on the following internet site: <http://eur-lex.europa.eu/fr/index.htm>

We are at your disposal for any further information you may need and remain,

Yours faithfully,
Total Research & Technology Feluy

J. TUTI
Regulatory Affairs

F. WYLIN
Regulatory Affairs, Manager

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Tel. : +32 (0)64 51 41 11
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