

pure[11]-Nr.: 1103113, Marke:

Eigenschaften

Empfohlene Reinraumklassen

ISO

GMP

we care

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Material

-

Verpackung

- Box

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Produktvarianten

pure¹¹-Nr.: 1103113,

pure¹¹-Nr.: 1103113BL3XL, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Blau; Größe: 3XL / VE: 50STK

pure¹¹-Nr.: 1103113BLL, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Blau; Größe: L / VE: 50STK

pure¹¹-Nr.: 1103113BLM, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Blau; Größe: M / VE: 50STK

pure¹¹-Nr.: 1103113BLS, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Blau; Größe: S / VE: 50STK

pure¹¹-Nr.: 1103113BLXL, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Blau; Größe: XL / VE: 50STK

pure¹¹-Nr.: 1103113BLXS, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Blau; Größe: XS / VE: 50STK

pure¹¹-Nr.: 1103113BLXXL, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Blau; Größe: XXL / VE: 50STK

pure¹¹-Nr.: 1103113WH3XL, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Weiß; Größe: 3XL / VE: 50STK

pure¹¹-Nr.: 1103113WHL, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Weiß; Größe: L / VE: 50STK

pure¹¹-Nr.: 1103113WHM, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Weiß; Größe: M / VE: 50STK

pure¹¹-Nr.: 1103113WHS, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Weiß; Größe: S / VE: 50STK

pure¹¹-Nr.: 1103113WHXL, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Weiß; Größe: XL / VE: 50STK

pure¹¹-Nr.: 1103113WHXS, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Weiß; Größe: XS / VE: 50STK

pure¹¹-Nr.: 1103113WHXXL, Mantel Polypropylen

Druckknöpfe; ohne Taschen; Farbe: Weiß; Größe: XXL / VE: 50STK

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SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: **GENERAL HOMOPOLYMER AND COPOLYMER POLYPROPYLENE**
Product Description: Polyolefin, see Section 16 for applicable grades.

Intended Use: Extrusion and moulding

COMPANY IDENTIFICATION

Supplier: **ExxonMobil Chemical Asia Pacific (Regn. No. 52893724C)**
(A Division Of ExxonMobil Asia Pacific Pte Ltd - Regn. No. 196800312N)
POLYOLEFINS
1 Harbour Front Place
#06-00 Harbour Front Tower One 098633 Singapore

24 Hour Environmental / Health Emergency Telephone 800-101-2201
Supplier General Contact +65 6885 8339

Local Contact:

Country	Emergency Telephone Number
China	4001-204937
Hong Kong	800-968-793
India	000-800-100-7141
Japan	+81-3-45209637
Malaysia	1-800-815-308
Republic of Korea	00-308-13-2549
Thailand	001-800-13-203-9987

This (M)SDS is a generic document with no country specific information included.

SECTION 2 HAZARDS IDENTIFICATION

This material is not hazardous according to UN GHS Criteria. Classification includes all GHS hazard classes. For hazard categories with two cut-off/concentration limits, classification was based on the higher limit.

Other hazard information:

PHYSICAL / CHEMICAL HAZARDS

WARNING: May form combustible dust concentrations in air (during processing/handling). Thermal burn hazard - contact with hot material may cause thermal burns. Material can accumulate static charges which may cause an ignition. Spilled pellets present a slipping hazard on hard surfaces.

HEALTH HAZARDS

If dust is generated, it could scratch the eyes and cause minor irritation to the respiratory tract. No adverse effects due to inhalation are expected. When heated, the vapour/fumes given off may cause respiratory tract irritation.

ENVIRONMENTAL HAZARDS

No significant hazards.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

No Hazardous Substance(s) or Complex Substance(s) required for disclosure.

NOTE: The product may contain varying levels of additives such as slip and anti-blocking agents, antioxidants and stabilisers.

SECTION 4 FIRST AID MEASURES

INHALATION

At ambient/normal handling temperatures, no adverse effects due to inhalation of dust are expected. In case of adverse exposure to vapours and / or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest.

SKIN CONTACT

Wash contact areas with soap and water. For hot product: Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

No adverse effects due to ingestion are expected.

ACUTE AND DELAYED SYMPTOMS/EFFECTS

See Toxicological Section

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight streams of water

FIRE FIGHTING

Fire Fighting Instructions: Use standard firefighting procedures and consider the hazards of other involved materials. Assure an extended cooling down period to prevent re-ignition. Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous Combustion Products: Smoke, Fume, Incomplete combustion products, Oxides of carbon, Flammable hydrocarbons

FLAMMABILITY PROPERTIES

Flash Point [Method]: N/A
Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D
Autoignition Temperature: N/A

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

PROTECTIVE MEASURES

Avoid contact with spilled material. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (for example, clearing dust surfaces with compressed air). Prevent dust exposure to ignition sources. For example, use non-sparking tools and prohibit smoking, flares, sparks or flames in immediate area. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

SPILL MANAGEMENT

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Spilled pellets present a slipping hazard on hard surfaces. Prevent dust cloud. Small Dry Spills: With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Water Spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Skim from surface

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewers, basements or confined areas. For Large Spills: Cover spill with plastic sheet or tarpaulin to minimise spreading.

SECTION 7 HANDLING AND STORAGE

HANDLING

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dust from material can accumulate electrostatic charges due to friction from transfer and mixing operations and cause an electrical spark (ignition source). Provide adequate precautions to ignition sources, such as electrical grounding and bonding, inert atmosphere or non-sparking tools. However, bonding and grounds may not eliminate the hazard for static accumulation. Consult local applicable standards for guidance. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids and EN 61241, Electrical Apparatus for Use in the Presence of Combustible Dust for safe handling. Avoid elevated temperatures for prolonged periods of time. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent small spills and leakage to avoid slip hazard. Care should be taken when storing and handling this product. Apart from the specific nature of the polymer product, conditions such as humidity, sunlight and temperature have an influence on the way the product behaves during storage and handling. Special attention should be paid to avoid inappropriate stacking of palletised bags or other package units. Indeed, polymer products may be dimensionally unstable under certain conditions. Avoid conditions generating heat during transfer operations.

Loading/Unloading Temperature: [Ambient]

Transport Temperature: [Ambient]
Transport Pressure: [Ambient]

Static Accumulator: This material is a static accumulator.

STORAGE

The container choice, for example storage vessel, may effect static accumulation and dissipation.
Storage Temperature: [Ambient]
Storage Pressure: [Ambient]

Suitable Containers/Packing: Bulk Containers; Bags; Drums; Hopper Cars; Octatainer; Silos
Suitable Materials and Coatings (Chemical Compatibility): Aluminium; Polyethylene

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product: For dusty conditions, ACGIH recommends for insoluble and poorly soluble particles not otherwise specified an 8-hour TWA of 10 mg/m3 (inhalable particles), 3 mg/m3 (respirable particles).

Biological limits

No biological limits allocated.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded. SPECIAL PRECAUTIONS: Should significant vapours/fumes be generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation by-products which may evolve at elevated temperatures (for example, oxygenated components). Processors of this product should assure that adequate ventilation or other controls are used to control exposure. It is recommended that the current ACGIH-TLVs for thermal degradation by-products be observed. Contact your local sales representative for further information. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product are designed and maintained to minimize dust generation and accumulation. Ensure that dust-handling systems (such as exhaust ducts, dusts collectors, vessels, and processing equipment) are designed to minimize the potential for dust ignition and prevent explosion propagation. For example, use explosion relief vents, an explosion suppression system or inert equipment internals. Additional examples of proper equipment include using only appropriately classified electrical equipment and powered industrial trucks.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Particulate air-purifying respirator approved for dust or oil mist is recommended.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If product is hot, thermally protective, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If product is hot, thermally protective, chemical resistant apron and long sleeves are recommended.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION

Physical State: Solid
Form: Pellet, Granule
Colour: Clear to Opaque, White to Off-White
Odour: None to Mild
Odour Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density: N/D
Bulk Density: 0.4 g/cc at 20 °C - 0.7 g/cc at 20 °C
Density: 890 kg/m³ (7.43 lbs/gal, 0.89 kg/dm³) - 920 kg/m³ (7.68 lbs/gal, 0.92 kg/dm³)
Flammability (Solid, Gas): N/A
Flash Point [Method]: N/A
Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D
Autoignition Temperature: N/A
Boiling Point / Range: N/A
Decomposition Temperature: N/D
Vapour Density (Air = 1): N/A
Vapour Pressure: N/A
Evaporation Rate (n-butyl acetate = 1): N/A
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): N/A
Solubility in Water: Negligible
Viscosity: N/A
Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION

Freezing Point: N/A
Melting Point: 130°C (266°F) - 170°C (338°F)
Hygroscopic: No

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Avoid elevated temperatures for prolonged periods of time.

MATERIALS TO AVOID: Strong oxidisers, Fluorine

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity: No end point data for material.	Minimally Toxic. Based on chemical structure (polymers).
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
Ingestion	
Toxicity: No end point data for material.	Minimally Toxic. Based on chemical structure (polymers).
Skin	
Toxicity: No end point data for material.	Minimally Toxic. Based on chemical structure (polymers).
Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on chemical structure (polymers).
Eye	
Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on chemical structure (polymers).

OTHER HEALTH EFFECTS FROM SHORT AND LONG TERM EXPOSURE
Anticipated health effects from sub-chronic, chronic, respiratory or skin sensitization, mutagenicity, reproductive toxicity, carcinogenicity, target organ toxicity (single exposure or repeated exposure), aspiration toxicity and other effects based on human experience and/or experimental data.

For the product itself:
Dust may be irritating to the eyes and respiratory tract.
Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes and respiratory tract.
Contains:
Additives that are encapsulated in the polymer. Under the normal conditions for processing and use of this polymer the encapsulated additives are not expected to pose any health hazard. However, grinding of the polymer is not recommended without the use of appropriate measures to control exposure (see Section 8 - Engineering Controls).

IARC Classification:
The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--
1 = IARC 1 2 = IARC 2A 3 = IARC 2B

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.
Material -- Not expected to be harmful to terrestrial organisms.

MOBILITY

Material -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Material -- Expected to be persistent.

Hydrolysis:

Material -- Transformation due to hydrolysis not expected to be significant.

Photolysis:

Material -- Transformation due to photolysis not expected to be significant.

Atmospheric Oxidation:

Material -- Transformation due to atmospheric oxidation not expected to be significant.

BIOACCUMULATION POTENTIAL

Material -- Potential to bioaccumulate is low.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

SECTION 14 TRANSPORT INFORMATION

LAND (ADR/RID) : Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

Material is not hazardous as defined by the EU Dangerous Substances/Preparations Directives.

EU LABELING: Not regulated according to EC Directives

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Complies with the following national/regional chemical inventory requirements: TSCA

SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
Revision Changes:
Section 09: Bulk Density was modified.
Section 09: Density kg/m3(lbs/gal) was modified.
Section 11: Dermal Lethality Test Data was modified.
Section 11: Oral Lethality Test Data was modified.
Section 11: Inhalation Lethality Test Data was modified.
Section 11: Dermal Irritation Test Data was modified.
Section 11: Eye Irritation Test Data was modified.
Section 11: Inhalation Irritation Test Data was modified.
Section 11: Inhalation Lethality Test Comment was modified.
Section 16: Materials Covered was modified.
Section 11: Additional Health Information was modified.
Section 09: Melting Point C(F) was modified.
Section 01: Company Contact Methods Sorted by Priority was modified.
Section 01: Indent Secondary Companies Table was modified.
Revision Date: 01 Mar 2013

THIS SDS COVERS THE FOLLOWING MATERIALS: This MSDS covers ExxonMobil Propylene homopolymer, random copolymer and impact copolymer grades. Names of individual grades consist of the base polymer name or the base polymer name plus a suffix as an additional identifier. | Base polymers : | AP03 | AP3 | AP7885 | AXO3 | CL | EX777 | EXP 093 | Exxpol Enhance PP8114 | Exxpol Enhance PP8224 | Exxtral BNT010 | Exxtral BNT011 | Exxtral BNT013 | Exxtral BNT014 | Exxtral BNU011 | Exxtral BNU013 | Exxtral CNK010 | Exxtral CNN010 | Exxtral CNR011 | Exxtral CNR012 | Exxtral CNU011 | Exxtral

CNU012 | Exxtral CNU013 | Exxtral CNU015 | Exxtral CNW010 | Exxtral CNW012 | Exxtral HNR011 | Exxtral HNW011 | Exxtral LNR010 | Exxtral LNT010 | Exxtral LNU011 | Exxtral LNU012 | Exxtral LNV010 | Exxtral RNU010 | Exxtral RNU011 | NP327 | PD1024 | PP1000 | PP1001 | PP1003 | PP1013 | PP1014 | PP1024 | PP1032 | PP1042 | PP1043 | PP1044 | PP1052 | PP1055 | PP1063 | PP1064 | PP1074 | PP1094 | PP1095 | PP1105 | PP1106 | PP1154 | PP1194 | PP1234 | PP1254 | PP1264 | PP1304 | PP1352 | PP1364 | PP1374 | PP1572 | PP1701DEV | PP1992 | PP1994 | PP1995 | PP2252 | PP2272 | PP2822E1 | PP3155 | PP3203 | PP3295 | PP3325 | PP3364 | PP3374 | PP3505 | PP3674 | PP3684 | PP3885 | PP4052 | PP4062 | PP4113 | PP4152 | PP4182 | PP4212 | PP4223 | PP4292 | PP4342 | PP4352 | PP4563 | PP4612 | PP4652 | PP4682 | PP4683 | PP4712 | PP4772 | PP4792 | PP4912 | PP5012 | PP5032 | PP5112 | PP5122 | PP5262 | PP5341 | PP5722 | PP6135 | PP6262 | PP7011 | PP7021 | PP7031 | PP7032 | PP7033 | PP7035 | PP7043 | PP7054 | PP7064 | PP7071 | PP7075 | PP7084 | PP7085 | PP7095 | PP7102 | PP7143 | PP7373 | PP7414 | PP7505 | PP7555 | PP7575 | PP7623 | PP7654 | PP7675 | PP7684 | PP7694 | PP7715 | PP7805 | PP7815 | PP7855 | PP7875 | PP7905 | PP7992 | PP7994 | PP7995 | PP8013 | PP8023 | PP8074 | PP8234 | PP8244 | PP8255 | PP9054 | PP9074 | PP9122 | PP9302 | PP9374 | PP9494 | PP9505 | PP9513 | PP9524 | PP9544 | PP9574 | PP9585 | PP9604 | PP9612 | PP9623 | PP9632 | PP9852 | PP9999 | PPCBSLMF | PPICP | PPICPG | PPK0132 | PPSPL | PPSPL111 | PPSPL514 | PPSPL627 | PPSPLG | PPSUBST US | PPT0012 | PPT0016 | PPT0152 | PPT0170 | PPU0009 | PPU0012 | PPU0180 | PPV0004 | PPV0011 | PPV0016F | PPW0004 | PPW0010 | SFT315 | SFT325 | Suffixes : | AW | B | BE3 | C1 | C2 | C3 | C8 | E1 | E2 | E3 | E4 | E5 | E6 | E7 | F | F1 | F2 | F3 | F4 | F5 | G | G1 | GE2 | H | H1 | H2 | HR | K | KE2 | KN | KNE1 | KNE2 | L1 | MD1 | MED | N | NE1 | O/S | SS

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