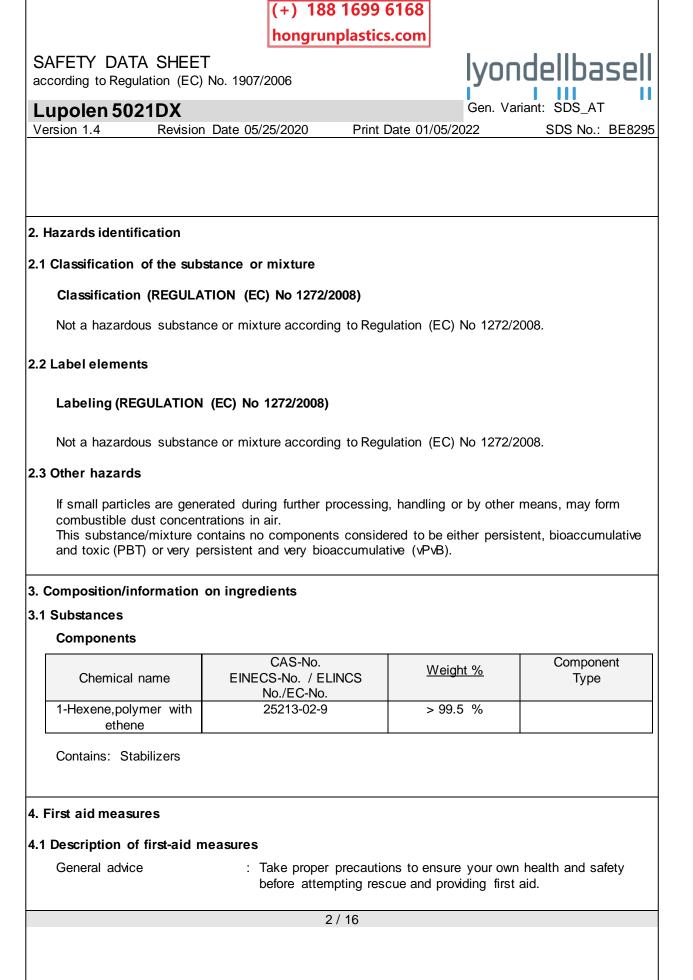
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| Lupolen 502 | 21 DX | | | Gen. Varia | nt: SDS_AT |
| Version 1.4 | Revision Date C | 5/25/2020 | Print Date 01/05/ | /2022 | SDS No.: BE829 |
| I.1 Product identi Trade name Synonyms Substance name Substance No. Chemical charac | terization tified uses of the s | Lupolen 502 Ethylene-1- 1-Hexene,po 25213-02-9 Polyethylen substance or Manufacture or other cor FDA Class devices; He Applications | f the company/under 21DX hexene copolymer, E olymer with ethene e copolymer r mixture and uses a e of plastic articles by nversion process. III medical devices; E ealth Canada class IV s involving permanent ing medical application | Ethylene-Hexer advised agair y injection mole European class ' Medical Devic t implantation | n st ding, extrusion s III medical ces; |
| Company | supplier of the saf larketing Company am | - | et Registration numbe NA | | ephone 0) 10 275 55 00 |
| E-mail address | | product.safety | /@lyb.com | | |
| Responsible/issu | | | | | |
| | lephone number | | | | |
| 1.4 Emergency te | lephone number larketing Company | B.V. | | +32 3 | 3 575 1235 |
| 1.4 Emergency te | larketing Company erreich GMBH 3 43 | B.V. | | +32 (| 3 575 1235 |
| 1.4 Emergency te Basell Sales & M <u>Poison Center:</u> Gesundheid Öste AT: +43 1 406 43 | larketing Company erreich GMBH 3 43 | B.V. | | +32 \$ | 3 575 1235 |
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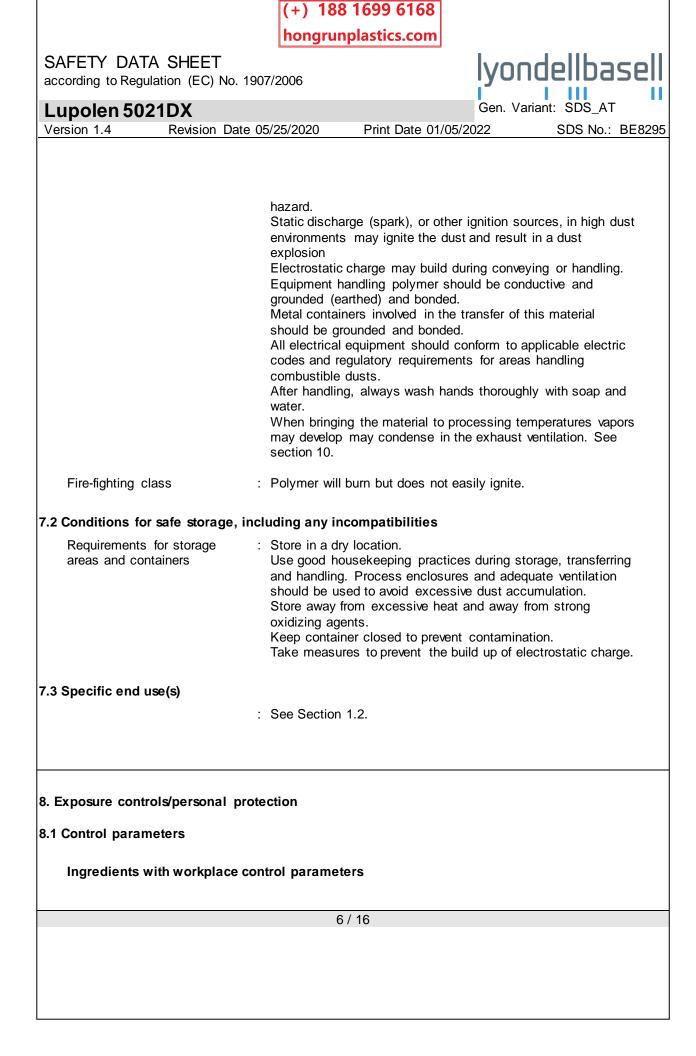


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SAFETY DATA SHEET lvondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS AT Lupolen 5021DX Print Date 01/05/2022 Version 1.4 Revision Date 05/25/2020 SDS No.: BE8295 If inhaled : Remove person to fresh air. If signs/symptoms continue, 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 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. : Dust contact with the eyes can lead to mechanical irritation. Hazards 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. 3/16

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| 5 Eiro fighting modeuros | | | | | |
| 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 sou In case of fire hazardous deco produced such as: Carbon monoxide, carbon diox hydrocarbons (smoke). | mposition products may be | | | |
| 5.3 Advice for firefighters | | | | | |
| Special protective equipment for fire-fighters | : Wear approved positive press apparatus and firefighter prote | | | | |
| Further information | : Combustible particulate solid, conditions. Calorific Value: 8000 - 11000 | | | | |
| | Fight fire from safe distance w | | | | |
| | nozzles. Heat from fire may melt, deco flammable vapors. | mpose polymer, and generate | | | |
| | Move containers from fire area Evacuate immediately in the e container pressure relief devic | event of opening of storage es or discoloration of container. | | | |
| | Always stay away from tanks on top on tattempt to get on top of fire. | engulfed in fire. f storage containers involved in | | | |
| | Cool storage containers with la after fire is out. | arge volumes of water even | | | |
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| Lupolen 5021DX | | | Gen. Variant: SDS_AT |
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| | | | |
| 6. Accidental release measures | | | |
| 6.1 Personal precautions, protecti | ive equipment a | nd emergency pro | cedures |
| Personal precautions | Creates dange surface. Equip emerger equipment (PF Avoid generati Avoid dispersa with compress Potential com | ncy responders with PE) ing dust. al of dust in the air (sed air). bustible dust hazard | d on any hard smooth n proper personal protective i.e., clearing dust surfaces |
| 6.2 Environmental precautions | | | |
| Environmental precautions | : Do not flush in | nto surface water or | sanitary sewer system. |
| 6.3 Methods and materials for cor | ntainment and cl | eaning up | |
| Methods for containment / Methods for cleaning up | : On land, swee vacuum using On water, mat solid. All recovered transported an applicable law | ep/shovel into suitable equipment which a terial is insoluble; co material should be p and disposed of or re- | ollect and contain as any backaged, labeled, claimed in conformance with and in conformance with good |
| 7. Handling and storage | | | |
| 7.1 Precautions for safe handling | | | |
| Advice on safe handling | handling, or by concentrations Avoid dust acc Avoid generati | small particles duri y other means, may s in air. cumulation in enclos ng dust; fine dust s | ng further processing, form combustible dust sed space. uspended in air and in the a potential dust explosion |
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Gen. Variant: SDS AT

Occupational Exposure Limits

| Components | CAS-No. | Туре | 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 | |

Consult local authorities for acceptable exposure limits.

8.2 Exposure controls

Engineering measures

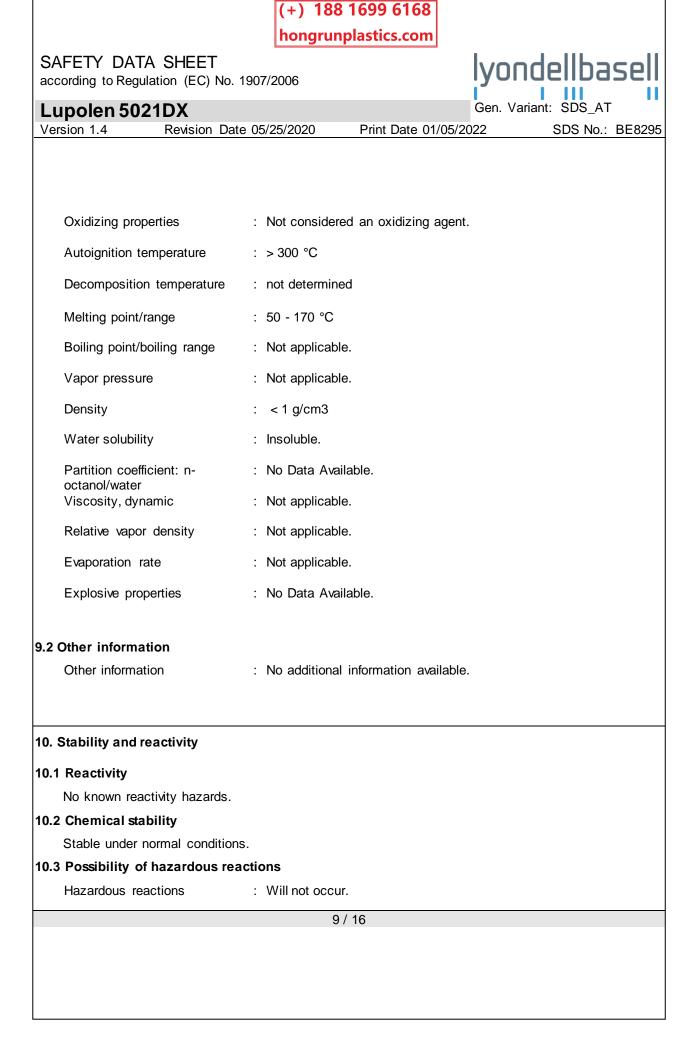
Follow the recommendations in international standard NFPA 654 (as amended and adopted) for equipment used to handle this product.

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. |
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(+) 188 1699 6168 hongrunplastics.com SAFETY DATA SHEET lyondellbasell according to Regulation (EC) No. 1907/2006 Gen. Variant: SDS AT Lupolen 5021DX Print Date 01/05/2022 Version 1.4 Revision Date 05/25/2020 SDS No.: BE8295 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 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. 8 / 16



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| | | | | | |
| 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. | | | | |
| Acute toxicity Acute oral toxicity | : Not classified | | | | |
| Acute inhalation toxicity | | | | | |
| - | | | | | |
| Acute dermal toxicity | 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. | | | | |
| | | | | | |
| irritation Respiratory or skin | Mechanical irritation is possible. | | | | |
| irritation Respiratory or skin sensitization | Mechanical irritation is possible. | | | | |
| irritation Respiratory or skin sensitization | Mechanical irritation is possible. | | | | |
| irritation Respiratory or skin sensitization | Mechanical irritation is possible. | | | | |
| irritation Respiratory or skin sensitization | Mechanical irritation is possible. | | | | |

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| Lupolen 5021DX | | Gen. Variant: SDS_AT |
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| Carcinogenicity | : Not classified | |
| Germ cell mutagenicity | : Not classified | |
| Reproductive toxicity | | |
| Effects on fertility / Effects on or via lactation | : Not classified | |
| Effects on Development | : Not classified | |
| Target Organ Systemic Toxi | cant - Single exposure | |
| | : The substance or mix organ toxicant, single | ture is not classified as specific target exposure. |
| Target Organ Systemic Toxi | cant - Repeated exposure | e |
| | : The substance or mixi organ toxicant, repeate | ture is not classified as specific target ed exposure. |
| Aspiration hazard | : Not applicable. | |
| 12. Ecological information | | |
| 12.1 Ecotoxicology Assessment | | |
| Short-term (acute) aquatic hazard | : Not classified | |
| Long-term (chronic) aquatic hazard | : Not classified | |
| 12.2 Persistence and degradabil | ity | |
| Biodegradability | : Not expected to be bid | odegradable. |
| 12.3 Bioaccumulative potential | | |
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| | | | | |
| Bioaccumulation | 1 : This mate | rial is not expected to b | ioaccumulate. | |
| 12.4 Mobility in soil | | | | |
| Mobility | : no data a | vailable | | |
| 12.5 Results of PBT a | and vPvB assessment | | | |
| Result | to be eithe | | no components considered ulative and toxic (PBT) or nulative (vPvB). | |
| 12.6 Other adverse e | ffects | | | |
| Environmental fa pathways | ate and : This mate | rial is not volatile and ir | soluble in water. | |
| 12.7 Other information | ิท | | | |
| 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. | | | However, birds, fish and | |
| 13. Disposal conside | rations | | | |
| 13.1 Waste treatmen | | | | |
| Product | transporte applicable engineerir | | claimed in conformance with nd in conformance with good | |
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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 the chemical substance in this product has been registered under REACh, in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

Other international regulations

Global Inventory Status

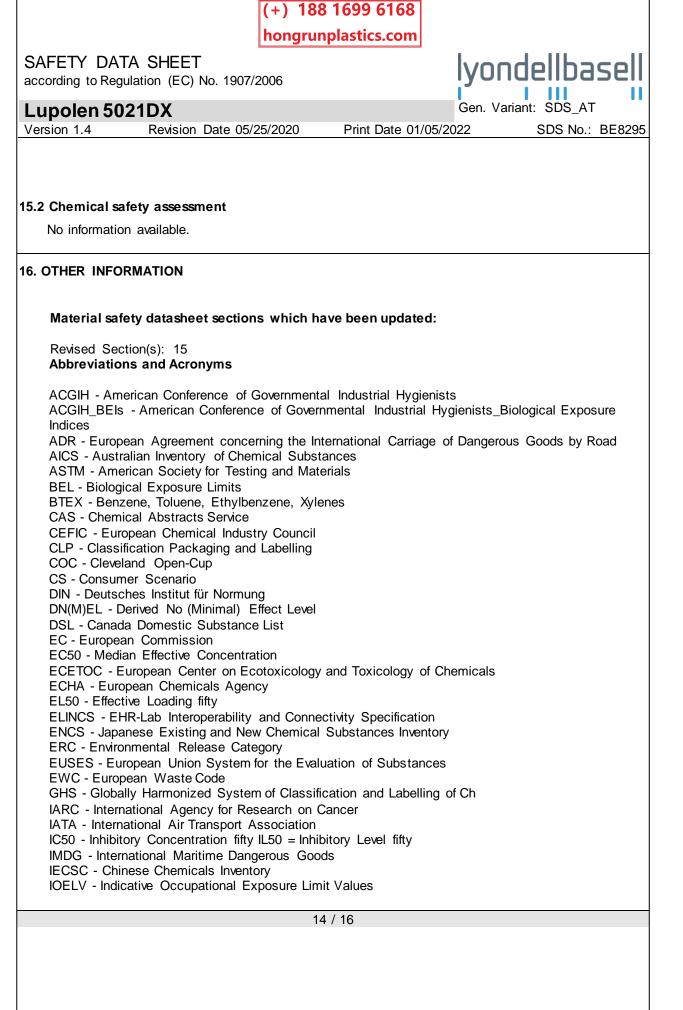
The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

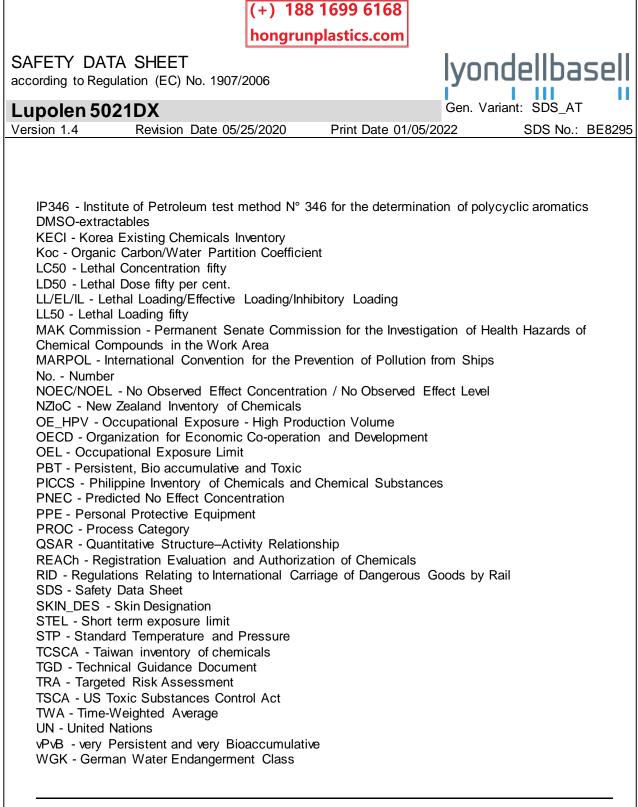
*Additional Explanatory Status Statements follow the table, as necessary.

| 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.

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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.

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,

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Lupolen 5021DX

Version 1.4

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SDS No.: BE8295

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Gen. Variant: SDS AT

Disclaimer

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 or visit the LyondellBasell website at: https://www.lyondellbasell.com/en/products-technology/product-safety-stewardship/ The Trade Name referenced in section 1 is a trademark 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