We encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. SUBSTANCE IDENTIFICATION- IDENTIFICATION OF MANUFACTURER

1.1. ID of the product:

TRANSPARENT POLYOLEFINS STRETCH FILMS

1.2. Important identified applications of substance or mixture and discouraged applications

Film for packaging and security of the loads, protection film

2. IDENTIFICATION OF DANGERS

In accordance with the applicable law (see p. 15) the product is not classified as dangerous.

2.1 Classification of substance or mixture :

REGULATION (EC) No 1272/2008

Not hazardous : Not classified

Classification according to EU Directives 67/548/EEC or 1999/45/EC

2.2. CLP/GHS-Labeling

GHS Labeling not required

2.3. Elements of marking:

M7 – microstretch "SEVEN" film - own name, M50 film – own name, E7 film – own name, STRETCH +® film – own name stretch film, Eco Performance® pre-stretch – own name, AgroWrap® – own name, FJ – jumbo film, FM- machine film , FR – manual film

2.4. Other dangers:

Physical and chemical dangers:

- product is a flammable solid
- gives off toxic gases in a fire conditions

Dangers for health

- product does not put in a danger human's health and life

dangers for the environment:

- product is not classified as dangerous for the environment
- avoid releasing to the environment
- follow the instruction or characteristics card

3. COMPOSITION AND INFORMATION ABOUT COMPOSES

3.1 Substances

Chemical characteristics: linear low density polyethylene (LLD-PE) base material > 99%
CAS Number (LLD-PE): 25087-34-7
Product does not contain composes, which put in a danger human's health or life.
There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

3.2 Mixtures

4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of occurring any worrisome symptoms, call the doctor immediately or take the victim to the hospital, show the packaging of preparation , label or the characteristics card.

4.2 The most important acute and delayed symptoms and risk results;

- does not make a risk

4.3. Suggestion about any immediate doctor's help and special treatment with the victim

- does not make a risk

5. PROCEDURE IN CASE OF FIRE

5.1. Extinguishing media:

- carbon dioxide (CO2)
- dry chemicals
- alcohol resistant foams
- water – dispersed currents

5.2. Special dangers related to the substance or mixture:

- package is in a risk of fire activity or high temperature, cool with water from safe distance, if it is possible take them away from danger area
- product is a flammable solid
- it gives off toxic gases in a fire conditions, during combustion of the preparation appear smokes, which contain dangerous chemical substances for health, among others: carbon monoxide and carbon dioxide

5.3. Information for fire brigade

- inform about the fire
- take away all people not taking part in extinguishing the fire from the danger area
- if there is a necessary order an evacuation
- avoid breathing in the smoke
- remove all sources of flame
- use protection clothes and equipment
- protect respiratory system

- cool with water containers, which are put in a risk of the contact with flame
- not allow to enter drains water to the sewerage

6. TREATMENT IN CASE OF UNWITTING RELEASING TO THE ENVIRONMENT

6.1. Individual precautions, protective equipment and emergency procedures:

- does not make a risk

6.2. Environment protection precautions

- does not make a risk

6.3. Methods and materials protecting from pollution spreading and cleaning it up

- does not make a risk

6.4. Reference to other sections

- collect released material and devote for reuse it

7. TREATMENT WITH THE PREPARATION AND ITS STORAGE

7.1. Precautions of safe handling:

- do not eat meals, drink or smoke during the work with preparation except intended places; wash hands before breaks and after finished work, if it is necessary use a hand cream
- do not allow to contaminate eyes, skin and clothes

7.2. Conditions of safe storage, with any information about common in conformities :

- do not use open fire near the storage product
- eliminate the possibility of electrostatic charges accumulation.
- use an appropriate grounding
- safe product from higher temperature activity and direct impact of sunlight
- safe from moisture impact
- provide a ventilation by storage
- safe from the impact of strong oxidants and other substances reacting with the plastic
- provide safe pallet units composing or other forms of product packaging
- store the film in a temperature from +10 to +25 ºC, in a dry place, which is not in a danger of the direct atmosphere conditions influence i.e..: rain, snow and sunlight, away from heat- emitting devices. The height of stacking pallets – maximum 2 pallets, separated by cardboard spacer in order to safe the film from damage
- use the film in a temperature range – 5 do + 30 ºC

7.3. Specific final use(s):

- because of security considerations is the best to store the product in an original package
- protect package from mechanical damage

8. RISK CONTROL AND INDIVIDUAL PROTECTION

8.1. Control parameters:

Employees medical tests and also tests and measurements of harmful factors should be made in accordance with the applicable law.

- wash exactly all body after work
- wash contaminated clothes and shoes before reusing

8.2. Risk control

According to the Regulation of the Minister of Labour and Social Policy of 29 November 2002. (Journal of Laws No. 217, item. 1833), as amended (Journal of Laws No. 212, item. 1769 2005.; Journal. Laws No. 161, item. 1141, 1142 of 2007):

- product does not contain components, for which there is a contamination control obligated.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information about basic physical and chemical properties

- ✓ form, appearance,: solid
- ✓ colour: transparent
- ✓ smell: without odour
- ✓ pH: not applicable
- ✓ boiling temperature: not applicable

- ✓ melting temperature: 100 ÷ 130°C
- ✓ smoking temperature : not marked
- ✓ ignition temperature: > 340°C
- ✓ self-ignition temperature: not self- igniting product
- ✓ combustibility: combustible solid
- ✓ explosive properties: product does not danger an explosion
- ✓ limits of explosion:
- lower: -
- upper: -
- ✓ oxidizing properties: none
- ✓ vapor pressure: not applicable
- ✓ density: 0,9 ÷ 0,95 g/cm3
- ✓ vapor density: not applicable
- ✓ solubility:
- in water: insoluble
- in organic solvents: insoluble

9.2. Other information

N/A

10. STABILITY AND REACTIVITY

10.1. Reactivity:

- does not cause

10.2. Chemical stability:

- stable in normal conditions of handling and storage

10.3. Dangerous reactions occurring possibility:

- does not cause

10.4. Conditions, which should be avoided:

- distribution above the temperature 360°C

10.5. Incompatible materials

- strong oxidants

10.6. Dangerous products of distribution

- carbon oxides
- toxic gases and smokes

11. TOXICOLOGICAL INFORMATION

11.1. Information about toxicological effects:

- product does not put in a danger human's health and life
- tests conducted on rats, dogs and pigs (50 ÷ 90 days as a food additive in the amount of 1% ÷ 20% polyethylene in a form of powder and minced film) did not indicate a negative influence on health
- do not expect to be carcinogenic and mutagenic and re-protoxic product
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12. ECOLOGICAL INFORMATION

12.1. Toxicity:

- no data

Do not allow to pollute surface waters and groundwaters or soil. Follow in accordance with the law statements. Do not allow to release to the natural environment. Properly handling product does not make a risk for the environment.
Do not allow to pollute surface waters and groundwaters or soil. Do not enter to the sewerage. Do not dispose the product into sewers or waterways.

12.2. Durability and ability of distribution:

- non-biodegradable product

12.3. Bioaccumulation ability:

- not bioaccumulate product

12.4. Mobility in soil:

- insoluble product in water, does not migrate to the soil

12.5. Results of properties assessment PBT and vPvB:

- no data

12.6. Other adverse effects:

avoid discharges to the environment
follow in accordance with the instruction or characteristics card

13. TREATMENT WITH WASTE

13.1. Methods of waste disposal:

- Do not permit loose material to accumulate on the ground or floors. Use properly labelled separate

containers for recyclable and non-recyclable pellets. For uncontaminated material the preferred disposal options include mechanical and chemical recycling, reselling waste material, incineration with energy recovery or using it as alternative fuel (e.g in cement kilns). Prevent waste material going to landfills. For contaminated material the options remain the same, although additional evaluation is required. For all countries the disposal methods must be in compliance with national and provincial laws and any municipal or local by-laws. All disposal methods must be in compliance with the EU framework Directives 2008/98/EC and their subsequent adaptations, as implemented in National Laws and Regulations, as well as EU Directives dealing with priority waste streams. Transboundary shipment of wastes must be in compliance with Regulation (EC) No 1013/2006 and subsequent modifications. The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

14. INFORMATION ABOUT TRANSPORT

14.1. UN Number (ONZ number)

– N/A

14.2. UN proper shipping name

– N/A

14.3. Class(-es) of danger in transport:

Product does not make a danger under the road transport law statements.

14.4. Packaging group:

– **N/A**

14.5. Dangers for the environment:

– product is not classified as dangerous for the environment

14.6. Specific precautions for users;

– N/A

15. INFORMATON ABOUT LAW STATEMENTS

15.1. Law statements about safety, health and the environment protection specified for the substance and mixture:

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Text with EEA relevance) (OJ L 396, 30.12.2006, p. 1)
2. The Act of 11 January 2001. substances and preparations (Journal of Laws No. 11, item. 84, 2001.), as amended.
3. The Act of 27 April 2001. Waste (Journal of Laws No. 62, item. 628 of 2001.) together with the Regulation of the Minister of the Environment (Journal of Laws No. 152, item. 1735 to 1737 of 2001).
4. Act of May 11, 2001. on packaging and packaging waste (Journal of Laws No. 63, item. 638 of

2001.), as amended

5. Proclamation of the Marshal of the Polish Sejm on 4 July 2006. on the uniform text of the Act - Law on Environmental Protection (Journal of Laws No. 129, item. 902 of 2006.)
6. The Act of 28 October 2002 on the transport of dangerous goods by road (Journal of Laws No. 199, item. 1671 2002.) As amended
7. Regulation of the Minister of Health of 30 April 2004. on dangerous substances and preparations, the packaging of which must have closures protecting against opening by children and tactile warning of danger (Journal of Laws No. 128, item. 1348 of 2004).
8. Regulation of the Minister of Health of 2 September 2003. on labelling of dangerous substances and preparations (Journal of Laws No. 173, item. 1679 2003.) with a change of 9 November 2004.

   (Journal of Laws No. 260, item. 2,595 from 2004.) Taking into account Commission Directive 2006/8/EC of 23 January 2006.
9. Regulation of the Minister of Health of 2 September 2003. on the criteria and classification of chemical substances and preparations (Journal of Laws No. 171, item. 1666 2003.) with a change of 4 September 2007. (Journal of Laws No. 174, item. 1222).
10. Regulation of the Minister of Health of 13 November 2007. on the data sheet (Journal of Laws No. 215 item 1588 of 2007).
11. Regulation of the Minister of Health on September 28, 2005. on the list of hazardous substances and their classification and marking (Journal of Laws No. 201, item. 1674 2005.)
12. Regulation of the Minister of Labour and Social Policy of 29 November 2002. on the maximum permissible concentrations and intensities of harmful factors in the work environment (Journal of Laws No. 217, item. 1833 2002.) with change (Journal of Laws No. 212, item. 1769 2005., and Dz. U. No. 161 item. 1142 of 2007).
13. Government Statement of 26 July 2005 on the entry into force of amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (Journal of Laws No. 178, item. 1481 dated 2005.)
14. Regulation of the Minister of Environment of 27 September 2001. on waste (Journal of Laws No. 112, item. 1206, 2001).
15. Regulation of the Minister of Labour and Social Policy of 11 June 2002. amending the Regulation on the general safety and health (Journal of Laws No. 91, item. 811 of 2002.)
16. Regulation of the Minister of Economy of 9 June 2006 amending the regulation on the minimum requirements for the safety and health of workers employed in workplaces where explosive atmospheres may occur (Journal of Laws No. 121, item. 836 of 2006.)
17. Council of Ministers of 30 July 2002. amending the regulation on the list of works forbidden to women (Journal of Laws No. 127, item. 1092 2002).
18. Regulation of the Minister of Health on April 20, 2005. on tests and measurements of harmful factors in the work environment (Journal of Laws No. 73, item. 645 of 2005.)
19. Regulation of the Minister of Health and Social Welfare on 30 May 1996. the medical examinations of employees, scope of preventive health care workers and medical certificates issued for the purposes provided for in the Labour Code (Journal of Laws No. 69, item. 332 of 1996.), as amended (Journal of Laws No. 37, item. 451 and Acts. poz.1405 Laws No. 128 of 2001.)
20. Council of Ministers of 24 August 2004. on the list of works forbidden to the juvenile and the conditions of their employment at some works (Journal of Laws No. 200, item. 2047 dated 2004.), as amended (Journal of Laws No. 136, item. 1145 dated 2005.)
21. Regulation of the Minister of Economy and Labour dated 5 July 2004. the restrictions, prohibitions or conditions of production, marketing or use of dangerous substances and preparations and products containing them (Journal of Laws No. 168, item. 1762 2004.), as amended (Journal of Laws No. 39 item 372 of 2005 ., and Dz. U. No. 127, item. 887 of 2006.)
22. Regulation of the Minister of Health on 1 December 2004. on substances, preparations, factors or technological processes with carcinogenic or mutagenic in the work environment (Journal of Laws

No. 280, item. 2771 dated 2004.), as amended (Journal of Laws No. 160, item. 1356 2005.)

23. The Act of 29 July 2005. Counteracting Drug Addiction (Journal of Laws No. 179, item 1485 dated 2005.) with change (Journal of Laws No. 120, item. 826 of 2006 and Regulation (EC) No. 273/2004 of the European Parliament and of the Council of 11 February , 2004. on drug precursors (OJ. Communities L 047 of 18.02.2005) and the Regulation (EC) and the Council No. 111/2005 of 22 December 2004. laying down rules for the monitoring of trade in drug precursors between the Community and third countries (OJ . Gazette. Communities L 22 of 26.01.2005., page 1; Acts. Gazette. Polish EC special edition of 2005., vol 48, p 1).

15.2. Chemical safety assessment:

Classification and marking of preparation was given in accordance with the Act on chemical substances and preparations of 11 January 2001 and also with data given by material manufacturers.

16. OTHER INFORMATION

Employees' medical tests and also tests and measurements of harmful factors should be made in accordance with the applicable law.
The characteristics card was prepared on data from characteristics card given from the manufacturer. The information above was developed basing on the current state of knowledge and experience. However, they are not a guarantee of the product ownership as well as a quality specification and cannot be the basis of complaint. Product should be transported, stored and used in accordance with the applicable law and good practise and Occupational Health. The manufacturer is not responsible for loses, which are direct or indirect results of following the above statements or instruction interpretation.
The presented information may not apply to product mixtures with other substances . Using the given information as well as the product are not controlled by the manufacturer, so that the obligation of user is to create proper conditions of safe handling with the product.

The card was prepared in conformity with the currently applicable statements. The card's designing was based on the data from the manufacturer and the current state of knowledge and experience.