#### Safety Data Sheet



| Section 1: Identification of the Substance/Mixture and of the Company/Undertaking                                                                                 |                                                                                                                          |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--|--|
| 1.1 Product identifier                                                                                                                                            |                                                                                                                          |  |  |
| Product Name                                                                                                                                                      | TYMAX® Maleated Linear Low Density Polyethylene                                                                          |  |  |
| Synonyms                                                                                                                                                          | Ethylene – maleic anhydride copolymer; Functionalized poly(ethylene-co-hexene);<br>Maleated LLDPE; Maleated Polyethylene |  |  |
| Product Grades                                                                                                                                                    | GA4409, GC4408, GT4402, GT4408                                                                                           |  |  |
| 1.2 Relevant identified uses o                                                                                                                                    | f the substance or mixture and uses advised against                                                                      |  |  |
| Relevant identified use(s)                                                                                                                                        | Plastic film, laminating, molding, coating                                                                               |  |  |
| 1.3 Details of the supplier of the safety data sheet                                                                                                              |                                                                                                                          |  |  |
| Manufacturer                                                                                                                                                      | Westlake Polymers LLC<br>2801 Post Oak Blvd.<br>Houston, TX 77056<br>United States<br>www.westlake.com                   |  |  |
| Telephone (General)                                                                                                                                               | 713-960-9111                                                                                                             |  |  |
| 1.4 Emergency telephone num                                                                                                                                       | nber                                                                                                                     |  |  |
|                                                                                                                                                                   | 800-424-9300 – CHEMTREC                                                                                                  |  |  |
| Section 2: Hazards Identificat                                                                                                                                    | Section 2: Hazards Identification                                                                                        |  |  |
| EU/EEC<br>According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]<br>According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD) |                                                                                                                          |  |  |
| 2.1 Classification of the subst                                                                                                                                   | ance or mixture                                                                                                          |  |  |
| CLP                                                                                                                                                               | Not classified                                                                                                           |  |  |
| DSD/DPD                                                                                                                                                           | Not classified                                                                                                           |  |  |

#### 2.2 Label Elements

| CLP | Hazard | <ul> <li>No label element(s) required</li> </ul> |
|-----|--------|--------------------------------------------------|
|     |        |                                                  |

 No label element(s) required DSD/DPD Risk phrases

# 2.3 Other Hazards

| CLP     | May form combustible dust concentrations in air.                                            |
|---------|---------------------------------------------------------------------------------------------|
|         | According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous. |
| DSD/DPD | <ul> <li>May form combustible dust concentrations in air.</li> </ul>                        |
|         | According to European Directive 1999/45/EC this material is not considered dangerous.       |

United States (US) According to OSHA 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

**OSHA HCS 2012** 

Not classified

statements

#### 2.2 Label elements

OSHA HCS 2012 Hazard

• No label element(s) required

## 2.3 Other hazards

OSHA HCS 2012

• As shipped, product is not hazardous. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

#### According to WHMIS

Canada

| centrations in air.<br>ned above is not considered hazardous under the<br>s Information System (WHMIS). |
|---------------------------------------------------------------------------------------------------------|
|                                                                                                         |

# Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

• Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

#### 3.2 Mixtures

| Composition                               |                   |       |  |  |
|-------------------------------------------|-------------------|-------|--|--|
| Chemical Name                             | Identifiers (CAS) | %     |  |  |
| Functionalized Poly(1-butene-co-ethylene) | Proprietary       | >99   |  |  |
| Antioxidants                              | Proprietary       | <0.25 |  |  |
| Acid neutralizer                          | Proprietary       | <0.10 |  |  |
| Maleic anhydride                          | 108-31-6          | <0.03 |  |  |

# Section 4 - First Aid Measures

#### 4.1 Description of first aid measures

| Inhalation | • IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.       |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin       | • For thermal burns, flush or submerge effected area in cold water to dissipate heat. Cover with clean bandage material. Do not peel material from skin. Get medical attention. For contact at ambient temperatures, wash with soap and water. |
| Eye        | <ul> <li>If dust or molten material contacts the eye, immediately flush with plenty of water for at least 15<br/>minutes. If irritation persists, get medical attention immediately.</li> </ul>                                                |
| Ingestion  | <ul> <li>First aid is not expected to be necessary if material is used under ordinary conditions and as<br/>recommended.</li> </ul>                                                                                                            |

#### 4.2 Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from the skin is not necessary.

#### Section 5 - Firefighting Measures

#### 5.1 Extinguishing media

| Suitable Extinguishing Media      | ٠ | Water fog, dry chemical, foam, carbon dioxide. |
|-----------------------------------|---|------------------------------------------------|
| Unsuitable Extinguishing<br>Media | • | None known.                                    |

#### 5.2 Special hazards arising from the substance or mixture

| Unusual Fire and Explosion<br>Hazards | • | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. |
|---------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous Combustion<br>Products      | • | Carbon dioxide, carbon monoxide, formaldehyde, acetaldehyde, irritating smoke.                                                                                  |
| 5.3 Advice for firefighters           |   |                                                                                                                                                                 |

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

#### Section 6 - Accidental Release Measures

#### 6.1 Personal precautions, protective equipment, and emergency procedures **Personal Precautions** · Do not walk through spilled material. Do not breathe dust. Avoid contact with skin and eyes. Wear appropriate personal protective equipment, avoid direct contact. **Emergency Procedures** Contain spill and monitor for excessive dust accumulation. Avoid unnecessary • personnel and equipment traffic in the spill area. Ventilate closed spaces before entering. 6.2 Environmental precautions No special environmental precautions necessary. 6.3 Methods and material for containment and cleaning up Containment/Clean-up Avoid generating dust. Measures

- Use clean nonsparking tools to collect 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.

#### 6.4 Reference to other sections

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

#### Section 7 - Handling and Storage

#### 7.1 Precautions for safe handling

Handling

- Avoid contact with molten material; do not breathe fumes, vapors, dust or sprays from molten or burning material. When processing at > 600°F (315°C), consider use of a respirator to avoid breathing decomposition products.
- Do not use in areas without adequate ventilation. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
  - Use appropriate Personal Protective Equipment (PPE) Avoid contact with skin and eyes. Do not

breathe dust. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

#### 7.2 Conditions for safe storage, including any incompatibilities

- Storage
- Keep container closed and in ventilated area, away from ignition sources, heat, open flames, and direct sunlight. Do not store with incompatible materials.

#### 7.3 Specific end use(s)

• Refer to Section 1.2 - Relevant identified uses

# 7.4 Other Information

• For prevention of fire and explosion, keep from contact with incompatible materials. Minimize dust generation and accumulation. Because product may accumulate a static charge, use proper bonding and/or grounding procedures prior to transfer. In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, 2006 edition."

## **Section 8 - Exposure Controls/Personal Protection**

#### 8.1 Control parameters

|                                                              |             | Exposu                                                                                                                                       | re Limits/Guidelines                                                                                                                                                                                        |                                                                                                                                                                          |
|--------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                              | Result      | ACGIH                                                                                                                                        | NIOSH                                                                                                                                                                                                       | OSHA                                                                                                                                                                     |
| Maleic anhydride<br>(108-31-6)                               | TWAs        | 0.01 mg/m3 TWA (inhalable fraction and vapor)                                                                                                | 0.25 ppm TWA; 1 mg/m3 TWA                                                                                                                                                                                   | 0.25 ppm TWA; 1 mg/m3 TWA                                                                                                                                                |
| 8.2 Exposure                                                 | contro      | ols                                                                                                                                          |                                                                                                                                                                                                             |                                                                                                                                                                          |
| Engineering<br>Measures/Contr                                | ols         | <ul> <li>Good general v<br/>Ventilation rates<br/>ventilation, clos<br/>special circums<br/>evaporation of l<br/>of dusts, drying</li> </ul> | ventilation (typically 10 air change<br>s should be matched to condition<br>ed systems, or respiratory and e<br>stances; such as poorly ventilated<br>liquids from large surfaces, spray<br>of solids, etc. | es per hour) should be used.<br>s. Supplementary local exhaust<br>ye protection may be needed in<br>I spaces, very hot processing,<br>ring of mists, mechanical generati |
| Personal Protec                                              | tive Eq     | uipment                                                                                                                                      | ,                                                                                                                                                                                                           |                                                                                                                                                                          |
| Respiratory                                                  |             | <ul> <li>For limited export<br/>purifying respirator<br/>respirator regul<br/>a NIOSH/MSH/<br/>are exceeded of</li> </ul>                    | osure use an N95 dust mask. For<br>ator with high efficiency particulat<br>ations found in 29 CFR 1910.134<br>A or European Standard EN 149<br>or symptoms are experienced.                                 | prolonged exposure use an air-<br>e air (HEPA) filters. Follow the O<br>or European Standard EN 149.<br>approved respirator if exposure li                               |
| Eye/Face                                                     |             | <ul> <li>Wear safety go</li> </ul>                                                                                                           | ggles.                                                                                                                                                                                                      |                                                                                                                                                                          |
| Hands                                                        |             | Wear thermally                                                                                                                               | resistant gloves and long sleeve                                                                                                                                                                            | s when handling molten product.                                                                                                                                          |
| Skin/Body                                                    |             | Wear long slee                                                                                                                               | ves and/or protective coveralls.                                                                                                                                                                            |                                                                                                                                                                          |
| Environmental I<br>Controls                                  | Exposui     | • Follow best pra                                                                                                                            | ctice for site management and di                                                                                                                                                                            | sposal of waste.                                                                                                                                                         |
| Key to abbreviations                                         |             |                                                                                                                                              | STEL - Short Torm Evposure Limits or                                                                                                                                                                        | a based on 15 minute expectives                                                                                                                                          |
| ACGIH = American Co                                          | onference o | f Governmental Industrial Hygiene                                                                                                            | STEL = Short rem Exposure Limits ar                                                                                                                                                                         | e based on 15 minute exposures                                                                                                                                           |
| NIOSH = National Institute of Occupational Safety and Health |             | TWA = Time Weighted Averages are back                                                                                                        | ased on 8h/day, 40h/week exposures                                                                                                                                                                          |                                                                                                                                                                          |

OSHA = Occupational Safety and Health Administration

# **Section 9 - Physical and Chemical Properties**

# 9.1 Information on Physical and Chemical Properties

#### Material Description

| Physical Form | Solid                           | Appearance/Description | Translucent to light yellowish solid with a slight odor. |
|---------------|---------------------------------|------------------------|----------------------------------------------------------|
| Color         | Translucent to light yellowish. | Odor                   | Slight                                                   |

TYMAX® Maleated Linear Low Density Polyethylene

| Odor Threshold                         | NDA                         |                      |                              |  |
|----------------------------------------|-----------------------------|----------------------|------------------------------|--|
| General Properties                     |                             |                      |                              |  |
| Boiling Point                          | NDA                         | Melting Point        | 115 to 127 C(239 to 260.6 F) |  |
| Decomposition Temperature              | > 300 C (573 F) (estimated) | рН                   | NDA                          |  |
| Specific Gravity/Relative<br>Density   | 0.90 to 0.93 Water=1        | Water Solubility     | Negligible.                  |  |
| Viscosity                              | NDA                         | Explosive Properties | Not Explosive.               |  |
| Oxidizing Properties:                  | Not an oxidizer.            |                      |                              |  |
| Volatility                             |                             |                      |                              |  |
| Vapor Pressure                         | NDA                         | Vapor Density        | NDA                          |  |
| Evaporation Rate                       | NDA                         |                      |                              |  |
| Flammability                           |                             |                      |                              |  |
| Flash Point                            | NDA                         | UEL                  | NDA                          |  |
| LEL                                    | NDA                         | Autoignition         | NDA                          |  |
| Flammability (solid, gas)              | Not Flammable.              |                      |                              |  |
| Environmental                          |                             | -                    |                              |  |
| Octanol/Water Partition<br>coefficient | NDA                         |                      |                              |  |
|                                        |                             |                      |                              |  |

#### 9.2 Other Information

• No additional physical and chemical parameters noted.

#### Section 10: Stability and Reactivity

#### **10.1 Reactivity**

• No dangerous reaction known under conditions of normal use.

#### **10.2 Chemical stability**

• Stable under normal temperatures and pressures.

#### **10.3 Possibility of hazardous reactions**

• Hazardous polymerization not indicated.

#### 10.4 Conditions to avoid

• Heat, sparks, open flame.

#### **10.5 Incompatible materials**

• Strong oxidizing agents, fluorine.

#### **10.6 Hazardous decomposition products**

• No data available

# **Section 11 - Toxicological Information**

# 11.1 Information on toxicological effects

| Component Name                                             | CAS         | Data                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functionalized 1-<br>butene polymer with<br>ethene (> 99%) | 25087-34-7  | Acute Toxicity: Ingestion/Oral-Rat LD50 • 4 g/kg; Sense Organs and Special Senses:Eye:Miosis (pupillary constriction); Sense Organs and Special Senses:Eye:Lacrimation; Gastrointestinal:Changes in structure or function of salivary glands                                                                                                   |
| Antioxidants<br>(< 0.25%)                                  | Proprietary | Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Lungs, Thorax, or<br>Respiration:Dyspnea; Inhalation-Rat LC50 • >1800 mg/m <sup>3</sup> 4 Hour(s); Skin-Rat LD50 • >2000 mg/kg;<br>Reproductive: Ingestion/Oral-Rat TDLo • 1750 mg/kg (multigeneration); Reproductive Effects:Effects<br>on Newborn:Other neonatal measures or effects. |
| Antioxidants<br>(< 0.25%)                                  | Proprietary | Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Skin-Rabbit LD50 • >3160 mg/kg                                                                                                                                                                                                                                                          |
| Antioxidants<br>(< 0.25%)                                  | Proprietary | Acute Toxicity: Ingestion/Oral-Rat LD50 • >6000 mg/kg; Skin-Rat LD50 • >2000 mg/kg;<br>Reproductive: Ingestion/Oral-Rat TDLo • 63000 mg/kg (multigeneration); Reproductive                                                                                                                                                                     |

Effects:Paternal Effects:Other effects on male; Reproductive Effects:Maternal Effects:Other effects

 Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

Prolonged exposure to the dust may cause wheezing, chest tightness, productive

Exposure to dust may cause mechanical irritation. Excessive concentrations of

nuisance dust in the workplace may reduce visibility and may cause unpleasant

Excessive concentrations of nuisance dust in the workplace may cause mechanical

cough nasal irritation and symptoms of chronic respiratory disease.

Exposure to dust may cause mechanical irritation.

| GHS Properties                | Classification    |
|-------------------------------|-------------------|
| Acute toxicity                | EU/CLP•NDA        |
|                               | OSHA HCS 2012•NDA |
| Aspiration Hazard             | EU/CLP•NDA        |
| Aspiration Hazard             | OSHA HCS 2012•NDA |
| Caroinogonicity               | EU/CLP•NDA        |
| Carcinogenicity               | OSHA HCS 2012•NDA |
| Corm Coll Mutagonicity        | EU/CLP•NDA        |
|                               | OSHA HCS 2012•NDA |
| Skip corrector/Irritation     | EU/CLP•NDA        |
| Skiri corrosion/iritiation    | OSHA HCS 2012•NDA |
| Skin consitization            | EU/CLP•NDA        |
| Skin SenSillZallOn            | OSHA HCS 2012•NDA |
| STOT-RE                       | EU/CLP•NDA        |
| SIUI-RE                       | OSHA HCS 2012•NDA |
| STOT-SE                       | EU/CLP•NDA        |
| 3101-3E                       | OSHA HCS 2012•NDA |
| Toxicity for Reproduction     | EU/CLP•NDA        |
|                               | OSHA HCS 2012•NDA |
| Pagniratory consistization    | EU/CLP•NDA        |
| Respiratory sensitization     | OSHA HCS 2012•NDA |
| Serious ave damage/Irritation | EU/CLP•NDA        |
| Senous eye damage/imitation   | OSHA HCS 2012•NDA |

# Route(s) of entry/exposure **Medical Conditions**

Inhalation, Skin, Eye, Ingestion • Disorders of the lungs. •

•

•

•

•

.

No data available.

deposits in eyes.

No data available.

No data available

irritation to mucous membranes.

# Aggravated by Exposure

# **Potential Health Effects**

## Inhalation

Acute (Immediate)

**Chronic (Delayed)** 

Skin

Acute (Immediate)

Chronic (Delayed)

Eye

Acute (Immediate)

**Chronic (Delayed)** 

Ingestion

Acute (Immediate)

#### Chronic (Delayed)

## Key to abbreviations

LD = Lethal Dose

MLD = Mild

#### TC = Toxic Concentration

TD = Toxic Dose

## **Section 12 - Ecological Information**

#### 12.1 Toxicity

- NDA
- 12.2 Persistence and degradability
- NDA
- 12.3 Bioaccumulative potential
- NDA

#### 12.4 Mobility in Soil

• NDA

#### 12.5 Results of PBT and vPvB assessment

• PBT and vPvB assessment has not been carried out.

.

#### 12.6 Other adverse effects

• NDA

#### Section 13 - Disposal Considerations

#### 13.1 Waste treatment methods

- Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Packaging waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

#### Section 14 - Transport Information

|           | 14.1 UN<br>number | 14.2 UN proper shipping name | 14.3 Transport hazard<br>class(es) | 14.4 Packing<br>group | 14.5 Environmental<br>hazards |
|-----------|-------------------|------------------------------|------------------------------------|-----------------------|-------------------------------|
| DOT       | NDA               | Not regulated                | NDA                                | NDA                   | NDA                           |
| TDG       | NDA               | Not regulated                | NDA                                | NDA                   | NDA                           |
| IMO/IMDG  | NDA               | Not regulated                | NDA                                | NDA                   | NDA                           |
| IATA/ICAO | NDA               | Not regulated                | NDA                                | NDA                   | NDA                           |

#### 14.6 Special precautions for user

None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

#### Section 15 - Regulatory Information

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

#### SARA Hazard Classifications • None

| Inventories | <ul> <li>These products comply with the following inventories:</li> </ul> |                 |             |                   |
|-------------|---------------------------------------------------------------------------|-----------------|-------------|-------------------|
|             | Australia AICS                                                            | Canada DSL/NDSL | China       | EU EINECS/ELNICS  |
|             | Japan ENCS                                                                | Korea KECI      | New Zealand | Philippines PICCS |
|             | USA TSCA                                                                  |                 |             |                   |

| California Prop 65         | <ul> <li>In compliance, no reportable substances</li> </ul>                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CERCLA                     | • In the event of a spill, the end user should verify whether reporting is required under local, state, and/or federal regulations.                                                                     |
| CONEG                      | <ul> <li>These products are in compliance with the heavy metals requirements of the<br/>Coalition of Northeastern Governors and California Toxics in Packaging Prevention<br/>Act (AB2021).</li> </ul>  |
| Ozone Depleting Substances | <ul> <li>In compliance with 40 CFR 82, no reportable substances.</li> </ul>                                                                                                                             |
| RCRA                       | <ul> <li>In the form delivered by Westlake, these products are not considered as hazardous<br/>waste, and are not subject to reporting under the Resource Conservation and<br/>Recovery Act.</li> </ul> |

# **15.2 Chemical Safety Assessment**

• No Chemical Safety Assessment has been carried out.

| Section 16 - Other Information                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Last Revision Date                                     | 22/June/2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| Preparation Date                                       | 15/August/2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| For Other Information                                  | Contact Westlake Polymers LLC Customer Service 1-800-545-9577<br>(Monday-Friday, 7:30am-5:00pm - central standard time)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Disclaimer/Statement of<br>Liability                   | It is your responsibility to determine that our product is safe, lawful, and technically suitable for your intended uses. This safety data sheet cannot cover all possible situations which the user may experience during processing. Each aspect of the user's operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this safety data sheet should be provided to employees and/or customers. Westlake Polymers LLC must rely on the user to use this information to develop appropriate work practice guidelines and employee instructional programs specific to the user's operation. |  |
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| <b>Key to abbreviations</b><br>NDA = No data available | The information in this sheet is valid for cited regulations published as of the date this document was prepared, as shown herein. Updates may be prepared as the regulations are amended or pending revised information about the resin. It is the customer's responsibility to seek updated regulatory information on any specific resin.                                                                                                                                                                                                                                                                                                                                         |  |