SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name
POLYSTAY 100

Safety data sheet number
G0092

Alternate Name
None

Recommended Use
Rubber anti-oxidant

Company Name
The Goodyear Tire & Rubber Company, 200 Innovation Way, Akron, Ohio 44316-0001
U.S.A.
Goodyear Canada Inc. 450 Kipling Ave. Etobicoke, Ontario M8Z 5E1 Canada

Company Phone Number
Technical Assistance 1.330.796.1906

24 Hour Emergency Phone Number
Goodyear / 24 hour Assistance 1.330.796.5111

Emergency Telephone
CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin sensitization Category 1

Hazard statements
May cause an allergic skin reaction
Very toxic to aquatic life with long lasting effects

Signal word
Warning

Emergency Overview

Precautionary statements

Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse

Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other hazards
Very toxic to aquatic life with long lasting effects
Very toxic to aquatic life with long lasting effects
0% of the mixture consists of ingredient(s) of unknown toxicity
Very toxic to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N´-Phenyl and Tolyl-p-Phenylene Diamine Derivs., Mixed</td>
<td>68953-84-4</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids Keep eye wide open while rinsing If eye irritation persists: Get medical advice/attention

Skin Contact
Wash off immediately with soap and plenty of water Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention

Inhalation
Move to fresh air in case of accidental inhalation of vapors.

Ingestion
Not an expected route of exposure. Clean mouth with water and drink afterwards plenty of water. Drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms
None known

Indication of any immediate medical attention and special treatment needed

Note to physicians
May cause sensitization of susceptible persons

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
None.

Specific hazards arising from the chemical
Thermal decomposition can lead to release of irritating and toxic gases and vapors. Very toxic to aquatic life. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Hazardous combustion products
Carbon oxides. Nitrogen oxides (NOx).

Explosion data

Sensitivity to Mechanical Impact
None.
Sensitivity to Static Discharge  None.

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
Avoid creating dust. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing.

**Environmental precautions**

**Environmental precautions**
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment**
Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**
Use personal protective equipment as required. Avoid creating dust. Take up mechanically, placing in appropriate containers for disposal.

7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling**
Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Avoid creating dust. Use personal protective equipment as required.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**
Keep container tightly closed in a dry and well-ventilated place.

**Incompatible materials**
None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls**
Shower. Eyewash stations. Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**
Wear safety glasses with side shields (or goggles).

**Skin and body protection**
Suitable protective clothing.

**Respiratory protection**
No protective equipment is needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations**
Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Page 3 / 9
Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not applicable</td>
<td>None known</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>90-101 °C / 194-213.8 °F</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>350 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Upper flammability limits</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Softening point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Molecular weight</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Stable under normal conditions

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
None known.

Incompatible materials
None known based on information supplied.

Hazardous Decomposition Products
Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

<table>
<thead>
<tr>
<th>Route</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No data available</td>
</tr>
<tr>
<td>Eye contact</td>
<td>May cause slight irritation.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>May cause irritation. May cause sensitization by skin contact.</td>
</tr>
</tbody>
</table>
Ingestion

No known effect.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N'-Phenyl and Tolyl-p-Phenylene Diamine Derivs., Mixed 68953-84-4</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms

rash.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Mild skin irritation.

Serious eye damage/eye irritation

Dust contact with the eyes can lead to mechanical irritation.

Sensitization

May cause sensitization by skin contact. Guinea pig.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

STOT - single exposure

None under normal use conditions.

STOT - repeated exposure

No information available.

Chronic toxicity

No information available.

Aspiration hazard

Not applicable.

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.

Ecotoxicity

Toxic to aquatic organisms Very toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Algae</th>
<th>Daphnia magna (Water Flea)</th>
<th>Toxicity to microorganisms</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N'-Phenyl and Tolyl-p-Phenylene Diamine Derivs., Mixed 68953-84-4</td>
<td>LC50 96h = 0.48 mg/L Oncorhynchus mykiss LC50 96h = &gt;0.67 mg/L Cyprinus carpio</td>
<td>EC50 72h growth rate = &gt;0.079 mg/L Selanastrum capricornutum</td>
<td>EC50 48h = &gt;1.1 - &lt;= 1.8 mg/L, Daphnia magna EC10 21d reproduction = 0.0045 mg/L daphnia magna EC10 21d survival = 0.027 mg/L Daphnia magna</td>
<td></td>
</tr>
</tbody>
</table>

Bioaccumulation

Bioaccumulative potential. BCF value for the constituent present in the substance range from <100 to ca. 8700 in a bioaccumulation study on carp.

Mobility

No information available.

Persistence and degradability

NOT READILY BIODEGRADABLE.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N'-Phenyl and Tolyl-p-Phenylene Diamine Derivs., Mixed 68953-84-4</td>
<td>4.72-5.13</td>
</tr>
</tbody>
</table>

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS
**Waste treatment methods**

**Disposal of wastes**  
This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261)

**Contaminated packaging**  
Do not reuse container.

---

### 14. TRANSPORT INFORMATION

**Note:**  
Per 49 CFR 172.504(f)(9) – A Class 9 Placard is not required for Domestic Transportation. However, BULK packaging must be marked with the appropriate UN Identification Number on a CLASS 9 label (white square on point display). Per 49 CFR 383.5, a driver of a commercial motor vehicle transporting a CLASS 9 Hazardous Material that is exempted from placarding for domestic transportation, is NOT required to obtain a Hazardous Materials Endorsement to his or her CDL.

**DOT**

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>9</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.</td>
</tr>
<tr>
<td>Description</td>
<td>UN3077, Environmentally hazardous substance, solid, n.o.s. (N,N'-Phenyl and Tolyl-p-phenylene, mixed deriv.), 9,III</td>
</tr>
</tbody>
</table>

**TDG**

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Environmentally Hazardous Substance, solid, n.o.s.</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>9</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Description</td>
<td>UN3077, Environmentally hazardous substance, solid, n.o.s. (N,N'-Phenyl and Tolyl-p-phenylene, mixed deriv.), 9,III</td>
</tr>
</tbody>
</table>

**MEX**

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Environmentally Hazardous Substance, solid, n.o.s.</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>9</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Description</td>
<td>UN3077, Environmentally hazardous substance, solid, n.o.s. (N,N'-Phenyl and Tolyl-p-phenylene, mixed deriv.), 9,III</td>
</tr>
</tbody>
</table>

**ICAO (air)**

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Environmentally Hazardous Substance, solid, n.o.s.</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>9</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Description</td>
<td>UN3077, Environmentally hazardous substance, solid, n.o.s. (N,N'-Phenyl and Tolyl-p-phenylene, mixed deriv.), 9,III</td>
</tr>
</tbody>
</table>

**IATA**

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Environmentally Hazardous Substance, solid, n.o.s.</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>9</td>
</tr>
<tr>
<td>Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>ERG Code</td>
<td>9L</td>
</tr>
<tr>
<td>Description</td>
<td>UN3077, Environmentally hazardous substance, solid, n.o.s. (N,N'-Phenyl and Tolyl-p-phenylene, mixed deriv.), 9,III</td>
</tr>
</tbody>
</table>

**IMDG**

<table>
<thead>
<tr>
<th>UN/ID No</th>
<th>UN3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Environmentally Hazardous substance, solid, N.O.S.</td>
</tr>
</tbody>
</table>
**Hazard Class**: 9
**Packing Group**: III
**EmS-No**: F-A, S-F
**Marine pollutant**: This material meets the definition of a marine pollutant
**Description**: UN3077, Environmentally hazardous substance, solid, n.o.s. (N,N’-Phenyl and Tolyl-p-phenylene, mixed deriv.), 9,III, Marine Pollutant

**RID**

**UN/ID No**: UN3077
**Proper shipping name**: Environmentally Hazardous Substance, solid, n.o.s.
**Hazard Class**: 9
**Packing Group**: III
**Classification code**: M7
**Description**: UN3077, Environmentally hazardous substance, solid, n.o.s. (N,N’-Phenyl and Tolyl-p-phenylene, mixed deriv.), 9,III

**ADR**

**UN/ID No**: UN3077
**Proper shipping name**: Environmentally Hazardous Substance, solid, n.o.s.
**Hazard Class**: 9
**Packing Group**: III
**Classification code**: M7
**Tunnel restriction code**: (E)
**Description**: UN3077, Environmentally hazardous substance, solid, n.o.s. (N,N’-Phenyl and Tolyl-p-phenylene, mixed deriv.), 9,III
**Labels**: 9

**Limited quantity (LQ)**: 5 kg

---

**International Inventories**

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N’-Phenyl and Tolyl-p-Phenylene Diamine Derivs., Mixed 68953-84-4 (100)</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**

- **TSCA**: United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL**: Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS**: European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS**: Japan Existing and New Chemical Substances
- **IECSC**: China Inventory of Existing Chemical Substances
- **KECL**: Korean Existing and Evaluated Chemical Substances
- **PICCS**: Philippines Inventory of Chemicals and Chemical Substances
- **AICS**: Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute health hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Fire hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aniline - 62-53-3</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations

International Regulations

Mexico - Grade
Slight risk, Grade 1

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class
D2B - Toxic materials

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2*</td>
<td>0</td>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

Revision Date 29-Aug-2017

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in
any process, unless specified in the text

End of Safety Data Sheet