

# SAFETY DATA SHEET

# 1. Identification

Product identifier	POLYSTAY 100	
Other means of identification Product code	G0092	
Recommended use	Antioxidant in rubber tire production.	
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer/Supplier	The Goodyear Tire & Rubber Company	
	200 Innovation Way	
	Akron, Ohio 44316-0001	
	USA	
Technical Assistance	+1 330-796-1906	
Goodyear / 24 Hour Assistance	+1 330-796-5111	
E-mail	msds_corp@goodyear.com	
Emergency Telephone	For chemical transport emergency call CHEM	TREC:
	+1 703-527-3887 (International)	
	+1 800-424-9300 (North America)	
Other Contact Information	For EU REACH Only Representative Informatic chemical.customer.service_e@goodyear.com	on please email
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Sensitization, skin	Category 1B
	Reproductive toxicity	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning
Hazard statement	May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

None known.

Pregnant women should not handle this product. Persons susceptible to allergic reactions should not handle this product.

# 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	%
1,4-Benzenediamine, N,N'-mixed Ph and tolyl derivs.		68953-84-4	100

## 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	May cause an allergic skin reaction. Dermatitis. Rash. Suspected of damaging fertility or the unborn child.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep exposed person(s) under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Routinely wash work clothing and protective equipment to remove contaminates. Contaminated work clothing should not be allowed out of the workplace.
5. Fire-fighting measures	
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	None known.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods General fire hazards	Use standard firefighting procedures and consider the hazards of other involved materials. Will burn if involved in a fire.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Collect dust using a vacuum cleaner equipped with HEPA filter. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Pregnant women should not handle this product. Persons susceptible to allergic reactions should not handle this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Additional components	Туре	Value	Form
Dust	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Lim	it Values		
Additional components	Туре	Value	Form
Dust	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Inhalable particles.
Biological limit values	No biological exposure limits noted for	the ingredient(s).	
Appropriate engineering controls	Good general ventilation should be us applicable, use process enclosures, lo maintain airborne levels below recomr established, maintain airborne levels t	ocal exhaust ventilation, or oth mended exposure limits. If exp	er engineering controls to
Individual protection measures	s, such as personal protective equipme	ent	
Eye/face protection	Wear safety glasses with side shields	(or goggles).	
Skin protection Hand protection	Wear appropriate chemical resistant g supplier.	loves. Suitable gloves can be	recommended by the glove
Skin protection			
Other	Wear appropriate chemical resistant c	lothing.	
Respiratory protection	In case of insufficient ventilation, wear	suitable respiratory equipme	nt.
Thermal hazards	Wear appropriate thermal protective c	lothing, when necessary.	
General hygiene considerations	Do not ingest. Always observe good p the material and before eating, drinkin protective equipment to remove conta out of the workplace.	g, and/or smoking. Routinely	wash work clothing and

### 9. Physical and chemical properties

#### Appearance Solid. **Physical state** Form Pastille. Color Blue-brown Amine. Odor **Odor threshold** Not available. 7 - 8 bН 207.68 °F (97.6 °C) Melting point/freezing point 662 °F (350 °C) Initial boiling point and boiling range Not available. Flash point **Evaporation rate** Not available.

Fla	ammability (solid, gas)	Will burn if involved in a fire.
Up	pper/lower flammability or exp	losive limits
	Flammability limit - lower (%)	Not available.
	Flammability limit - upper (%)	Not available.
	Explosive limit - lower (%)	Not available.
	Explosive limit - upper (%)	Not available.
Va	por pressure	Not available.
Va	por density	Not available.
Re	lative density	1.199 (20 °C)
So	lubility(ies)	
	Solubility (water)	Insoluble in water.
	rtition coefficient ·octanol/water)	3.3 - 4.6 (24 °C)
Au	to-ignition temperature	Not available.
De	composition temperature	Not available.
Vis	scosity	Not available.
Ot	her information	
	Dissociation constant	1.5 (20 °C)
	Explosive properties	Not explosive.
	Oxidizing properties	Not oxidizing.
10	) Stability and reactivity	

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed. Suspected of damaging fertility or the unborn child.
Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Dermatitis. Rash.
Information on toxicological effe	cts
Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity			
Not listed.	Not listed.		
NTP Report on Carcinogens			
Not listed.			
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1053)		
Not regulated.			
Reproductive toxicity	Suspected of damaging fertility or the unborn child.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.		
Chronic effects	None known.		
Further information	1,4-Benzenediamine, N,N'-mixed Ph and tolyl derivatives (CASRN 68953-84-4) In a two-generation reproductive toxicity study, Sprague Dawley rats (30/sex/dose) were exposed in the diet to CASRN 68953-84-4 at 0, 120, 400 or 1500 ppm (~ 0, 8.78, 29.27 or 109.76 mg/kg-bw/day). The F0 generation rats were exposed for 10 weeks prior to mating, 2 weeks during mating, 3 weeks during gestation and through weaning. The F1 generation rats were exposed for 10 weeks prior to mating, 2 weeks during mating, 3 weeks during gestation and through weaning. The F1 generation rats were exposed for 10 weeks prior to mating. On postnatal day (PND) 4, litters were culled to 10 each and 30 F1 generation males and females/dose group were chosen for pairing and further exposure for 10 weeks. Dystocia was observed in pregnant rats, which was likely responsible for prolonged gestation, increased perinatal deaths and decreased live births and increased pup weights. Polycystic lesions were observed at all levels. High-dose females experienced reduced body weights for the majority of the study period. Treatment-related kidney lesions were also observed grossly and microscopically. LOAEL (systemic toxicity) ~ 8.78 mg/kg-bw/ day (based on effects to the kidneys) LOAEL (reproductive toxicity) ~ 8.78 mg/kg-bw/day (based on dystocia, increased perinatal deaths, decreased live births and increased pup weights) NOAEL (systemic and reproductive toxicity) = Not established.		

# 12. Ecological information

Ecotoxicity	Very toxic to aquatic life with long lasting effects.
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
Bioaccumulative potential	

Partition coefficient n-octanol / water (log Kow)	
POLYSTAY 100	3.3 - 4.6, (24 °C)
Mobility in soil	The product is insoluble in water. Expected to have low mobility in soil.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

DOT	
UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (1,4-Benzenediamine, N,N'-mixed Ph and tolyl derivs.)

Transport bazard class(os)	
Transport hazard class(es)	0
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
· · ·	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33
Packaging exceptions	155
Packaging non bulk	213
Packaging bulk	240
ΙΑΤΑ	
UN number	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (1,4-Benzenediamine, N,N'-mixed Ph and tolyl derivs.)
Transport hazard class(es)	
Class	9
Subsidiary risk	- -
Label(s)	9
Packing group	III
Environmental hazards	Yes
ERG Code	9L
	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,4-BENZENEDIAMINE,
on proper simpping name	N,N'-MIXED PH AND TOLYL DERIVS.)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
-	
Packing group Environmental hazards	111
Marine pollutant	Yes
EmS	F-A, S-F
	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and	
the IBC Code	
15. Regulatory information	
• •	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
	ort Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Sul	ostance List (40 CFR 302.4)
Not listed.	
SARA 304 Emergency re	elease notification
Not regulated.	
	lated Substances (29 CFR 1910.1001-1053)
Not regulated.	
•	
	authorization Act of 1986 (SARA)
SARA 302 Extremely hazard	ous substance
Not listed.	
SARA 311/312 Hazardous chemical	Yes
	Pesniratory or skin sensitization
Classified hazard	Respiratory or skin sensitization Reproductive toxicity
categories	

POLYSTAY 100

#### SARA 313 (TRI reporting) Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

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Safe Drinking Water Act Contains component(s) regulated under the Safe Drinking Water Act.
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(SDWA)

### US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### US. Rhode Island RTK

#### **California Proposition 65**



**WARNING:** This product can expose you to chemicals including o-Toluidine, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Aniline (CAS 62-53-3)	Listed: January 1, 1990			
o-Toluidine (CAS 95-53-4)	Listed: January 1, 1988			
US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,				

subd. (a))

1,4-Benzenediamine, N,N'-mixed Ph and tolyl derivs. (CAS 68953-84-4)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date	17-October-2018
Revision date	22-April-2019
Version #	07
HMIS® ratings	Health: 2* Flammability: 1 Physical hazard: 0



List of abbreviations Disclaimer

The information contained in this Safety Data Sheet is based on The Goodyear Tire & Rubber Company's current knowledge and information. It is the user's responsibility to safely handle, store, use, and dispose of this product, including the selection and use of appropriate personal protective equipment, in accordance with the instructions on this Safety Data Sheet and applicable law.