Safety Data Sheet

US GHS **Revision date** 29-Sep-2017 **Version** 1 **Issue date** 24-Apr-2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name **Mixture of Para and Meta Diisopropylbenzene**

Safety data sheet number **G0015**

Alternate Name None

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: +1-703-741-5970 (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 Corrosion/Irritation	Category 2
Carcinogenicity	Category 2
FLAMMABLE LIQUIDS	Category 4

EMERGENCY OVERVIEW

Signal Word
WARNING

Hazard Statements
CAUSES SKIN IRRITATION
Suspected of causing cancer
Combustible Liquid

Appearance Clear **Odor** No information available **Physical State** Liquid

Precautionary Statements

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Response
IF exposed or concerned: Get medical advice/attention
SKIN
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
FIRE
In case of fire: Use CO2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep cool

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

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
1,3-Diisopropylbenzene	99-62-7	70-80
Benzene, 1,4-bis(1-methylethyl)-	100-18-5	20-30
Cumene	98-82-8	<1
Benzene, 1,2-bis(1-methylethyl)-	577-55-9	<1

4. First aid measures

FIRST AID MEASURES

General Advice If symptoms persist, call a physician

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin contact Wash skin with soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

INHALATION If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

INGESTION If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms Irritation

Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians Treat symptomatically

5. Fire-fighting measures

Suitable extinguishing media
Use. Dry chemical. Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

Combustible Liquid. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).

Hazardous Combustion Products Carbon oxides.

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 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.

Environmental Precautions

Environmental Precautions A vapor suppressing foam may be used to reduce vapors. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Dike far ahead of liquid spill for later disposal.

Methods for Cleaning Up Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Use only non-sparking tools. Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for Safe Handling

Advice on safe handling Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sparks.

Incompatible Materials Strong oxidizing agents.

8. Exposure Controls/Personal Protection

Control Parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH:
Cumene 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m^3 (vacated) TWA: 50 ppm	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m^3

		(vacated) TWA: 245 mg/m³ (vacated) S* S*	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH: Immediately Dangerous to Life or Health

Appropriate Engineering Controls

Engineering controls Showers. 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 Wear protective gloves and 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 Regular cleaning of equipment, work area and clothing is recommended. When using do not eat, drink or smoke. Take off all contaminated clothing and wash it before reuse.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Clear	**Odor**	No information available
Odor Threshold	No information available		

Property	**VALUES**	**Remarks • Method**
PH	Not Applicable	None known
Melting point/freezing point	No Data Available	None known
Boiling Point / Boiling Range	193.3 °C / 380 °F	None known
Flash Point	71.1 °C / 160 °F	None known
Evaporation Rate	Not Applicable	None known
Flammability (solid, gas)	No Data Available	None known
		None known
		None known
		None known
		None known
		None known
		None known

Upper flammability limits	No Data Available
Lower Flammability Limit	No Data Available
Vapor Pressure	Not Applicable
Vapor Density	5.6
Specific gravity	0.856
Water Solubility	Insoluble
Solubility in Other Solvents	No Data Available
Partition Coefficient	No Data Available
Autoignition Temperature	No Data Available
Decomposition Temperature	No Data Available

OTHER INFORMATION

Softening Point	No Data Available
Molecular Weight	Not Applicable
Density	No information available
Bulk Density	No information available

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
Heat, flames and sparks.

Incompatible Materials
Strong oxidizing agents.

Hazardous decomposition products
Carbon oxides.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information

INHALATION None known.

Eye Contact May cause irritation.

Skin contact Irritating to skin.

INGESTION None known.

Component information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,3-Diisopropylbenzene 99-62-7	= 7400 mg/kg (Rat)	-	-
Benzene, 1,4-bis(1-methylethyl)- 100-18-5	>3200 mg/kg (Rat)	>17,000 mg/kg (guinea pig)	-
Cumene 98-82-8	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h = 39000 mg/m³ (Rat) 4 h

Information on Toxicological Effects

Symptoms Irritation.

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

Skin Corrosion/Irritation Irritating to skin.
Sensitization No information available.
Germ Cell Mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	ACGIH	IARC	NTP	OSHA
Cumene 98-82-8		Group 2B	Reasonably Anticipated	X

IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
NTP (National Toxicology Program)
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive Toxicity No information available.
STOT - Single Exposure No information available.
STOT - Repeated Exposure No information available.
Chronic Toxicity None known.
Aspiration Hazard No information available.

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

ATEmix (oral) 9250 mg/kg

12. Ecological Information

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

A 21-day Daphnia magna chronic toxicity test was conducted for CAS No. 25321-09-9. The measured concentrations were control, solvent control, 0.009, 0.024, 0.063, 0.168, and 0.431 mg/L. the NOEC was determined based on the cumulative number of juveniles produced per adult alive for 21 days. 21-d Daphnia ChV = 0.220 mg/L; 21-d Daphnia NOEC = 0.063 mg/L. Mixed diisopropylbenzene.

80.99% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to fish	Toxicity to algae	Daphnia Magna (Water Flea)	Toxicity to Microorganisms
Cumene 98-82-8	LC50 96 h: 6.04 - 6.61 mg/L flow-through Pimephales promelas LC50 96 h: = 4.8 mg/L flow-through Oncorhynchus mykiss LC50 96 h: = 2.7 mg/L semi-static Oncorhynchus mykiss LC50 96 h: = 5.1 mg/L semi-static Poecilia reticulata	EC50 72 h: = 2.6 mg/L Pseudokirchneriella subcapitata	EC50 48 h: = 0.6 mg/L Daphnia magna EC50 48 h: 7.9 - 14.1 mg/L Daphnia magna	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h

Bioaccumulation
No information available.

Mobility
No information available.

Persistence and Degradability
No information available.

Chemical name	Partition Coefficient
Cumene 98-82-8	3.55

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. Never pierce, drill, grind, cut, saw or weld any empty container.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Cumene 98-82-8				U055

14. Transport Information

Note: According to 49 CFR §173.150(f)(1), this material should reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk

DOT

UN/ID no NA1993

Proper Shipping Name	Combustible Liquid, n.o.s.
Hazard class	3
Subsidiary Class	9
Packing group	III
Marine Pollutant	This product contains a chemical which is listed as a marine pollutant according to DOT.
Description	NA1993, COMBUSTIBLE LIQUID, N.O.S. (DIISOPROPYLBENZENE), Class 3, PG III (MARINE POLLUTANT)

TDG

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing group	III
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(diisopropylbenzenes),9,III, Marine Pollutant

MEX

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing group	III
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(diisopropylbenzenes),9,III, Marine Pollutant

ICAO (air)

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing group	III
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(diisopropylbenzenes),9,III, Marine Pollutant

IATA

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing group	III
ERG code	9L
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(diisopropylbenzenes),9,III, Marine Pollutant

IMDG

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing group	III
EmS-No	F-A, S-F
Description	UN3082,Environmentally hazardous substance, liquid, n.o.s.(diisopropylbenzenes),9,III, Marine Pollutant

RID

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing group	III
Classification Code	M6
Description	&UN3082, &, 9, III

ADR

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing group	III
Classification Code	M6

Tunnel restriction code (E)
Description UN3082,Environmentally hazardous substance, liquid, n.o.s.(diisopropylbenzenes),9,III, Marine Pollutant
Labels 9

ADN

UN/ID no UN3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
Hazard class 9
Packing group III
Classification Code M6
Special provisions 274, 335, 601
Description UN3082,Environmentally hazardous substance, liquid, n.o.s.(diisopropylbenzenes),9,III, Marine Pollutant
Hazard label(s) 9
Limited Quantity (LQ) 5 L

15. Regulatory Information

International Inventories

Component	TSCA	DSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
1,3-Diisopropylbenzene 99-62-7 (70-80)	X	X	Present		Present	X			X
Benzene, 1,4-bis(1-methylethyl)- 100-18-5 (20-30)	X	X	Present		Present	X	-	-	-
Cumene 98-82-8 (<1)	X	X	Present		Present	X	Present	X	X
Benzene, 1,2-bis(1-methylethyl)- 577-55-9 (<1)	X		Present		Present				

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

Acute Health Hazard Yes
Chronic health hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard NO
Reactive hazard NO

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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Cumene 98-82-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Cumene - 98-82-8	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Cumene 98-82-8	X	X	X

International regulations

Mexico - Grade

No information available

Chemical name	Carcinogenicity	Exposure limits
Cumene		Mexico: TWA 50 ppm Mexico: TWA 245 mg/m^3 Mexico: STEL 75 ppm Mexico: STEL 365 mg/m^3

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

B3 - Combustible liquid
D2A - Very toxic materials
D2B - Toxic materials

Chemical name	NPRI
Cumene	X

16. Other Information

NFPA	**Health Hazards** 2	**Flammability** 2	**Instability** 0	**Physical and chemical properties** -
HMIS	**Health Hazards** 2*	**Flammability** 2	**Physical Hazards** 0	**PERSONAL PROTECTION** -

** = Chronic Health Hazard*

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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