



SAFETY DATA SHEET

US GHS

Revision Date 18-Dec-2015

Version 2

Issue Date 18-Oct-2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SLF33H23, SOLFLEX 33H23

Safety data sheet number G4302A

Alternate Name None

Recommended Use Production of tires and other rubber products.

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 (USA) 1.800.424.9300
Canutec (Canada) 1.613-996-6666

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency Overview

Signal word

None

Hazard statements

None

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance No information available **Odor** No information available **Physical state** Solid

Precautionary statements

Prevention

None required

Hazards not otherwise classified (HNOC)

Not applicable

Other hazards

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---------------|--------|----------|
|---------------|--------|----------|

| | | |
|--|------------|-------|
| Styrene-Butadiene polymer | 9003-55-8 | 60-80 |
| Petroleum distillates, hydrotreated heavy naphthenic | 64742-52-5 | 14-18 |

4. FIRST AID MEASURES

First aid measures

| | |
|---------------------|---|
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes (Get medical attention immediately if irritation persists.) |
| Skin Contact | Wash with soap and water |
| Inhalation | Move to fresh air in case of accidental inhalation of vapors or decomposition products. |
| Ingestion | Not an expected route of exposure. Clean mouth with water and drink afterwards plenty of water. |

Indication of any immediate medical attention and special treatment needed

Symptoms None known

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media None.

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 Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool 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

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 Suitable protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | | | |
|-----------------------|--------------------------|-------------|--------------------------|
| Physical state | Solid | Odor | No information available |
| Appearance | No information available | | |
| Odor threshold | No information available | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------------|--------------------------|--------------------------------|
| pH | Not applicable | None known |
| Melting point/freezing point | No data available | None known |
| Boiling point / boiling range | 370-595 °C / 700-1100 °F | |
| Flash point | 243 °C / >= 470 °F | |
| Evaporation rate | Not applicable | None known |
| Flammability (solid, gas) | No data available | None known |
| None known | | None known |
| Vapor pressure | Not applicable | None known |
| Vapor density | Not applicable | None known |
| Specific Gravity | No data available | None known |
| Water solubility | No data available | |
| Solubility in other solvents | No data available | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | No data available | None known |

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

To avoid thermal decomposition, do not overheat.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|----------------------------|---|
| Product Information | No acute toxicity information is available for this product |
| Inhalation | None known. |
| Eye contact | None known. |
| Skin Contact | None known. |
| Ingestion | None known. |

Information on toxicological effects

| | |
|-----------------|-------------|
| Symptoms | None known. |
|-----------------|-------------|

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

| | |
|-------------------------------|---|
| Sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3. |

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|--|-------|---------|-----|------|
| Styrene-Butadiene polymer 9003-55-8 | | Group 3 | | |
| Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5 | A2 | Group 1 | | X |

*IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans*

| | |
|---------------------------------|---------------------------|
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |

Chronic toxicity
Aspiration hazard

No known effect.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

<5% of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to microorganisms | Daphnia magna (Water Flea) |
|---|-------------------|---|----------------------------|---|
| Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5 | | LC50 96 h: > 5000 mg/L Oncorhynchus mykiss | | EC50 48 h: > 1000 mg/L Daphnia magna |

Bioaccumulation

MATERIAL DOES NOT BIOACCUMULATE.

Mobility

No information available.

Persistence and degradability

NOT READILY BIODEGRADABLE.

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

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

15. REGULATORY INFORMATION

International Inventories

| Component | TSCA | DSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---------|---------|---------|--------|---------|---------|---------|---------|---------|
| Styrene-Butadiene polymer 9003-55-8 (60-80) | X | X | X | | Present | X | Present | X | X |
| Petroleum distillates, | Present | Present | Present | | Present | Present | Present | Present | Present |

| | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| hydrotreated heavy naphthenic 64742-52-5 (14-18) | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|

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 | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| 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, 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

| Chemical Name | California Proposition 65 |
|-------------------------------|--|
| 4-Vinylcyclohexene - 100-40-3 | Carcinogen Female Reproductive Male Reproductive |

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Styrene-Butadiene polymer 9003-55-8 | X | | |
| Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5 | | X | |

International Regulations**Mexico - Grade**

No information available

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
 Non-controlled

| |
|------------------------------|
| 16. OTHER INFORMATION |
|------------------------------|

| | | | | |
|--------------------|------------------|----------------|--------------------|---|
| <u>NFPA</u> | Health hazards 0 | Flammability 1 | Instability 0 | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 0 | Flammability 1 | Physical hazards 0 | Personal protection - |

| | |
|----------------------|-------------|
| Issue Date | 18-Oct-2013 |
| Revision Date | 18-Dec-2015 |

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