



NORTH SHORE RUBBER

SAFETY DATA SHEET (SDS) *Tire-Derived Polymer*

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifier: TDP

Other Product Names

TDP-B	TDP-C
0494	0496
TDP 0494	TDP 0496
Tire-Derived Polymer	Devulcanized Rubber

1.2 Recommended Uses

Identified uses: Reclaimed and devulcanized rubber material produced from waste rubber products. For uses in various rubber compounding applications.

Restrictions on use: Industrial/professional uses only.

1.3 Supplier:

North Shore Rubber

2054 2nd St, #656

Cuyahoga Falls, OH 44221

e-mail contact: kperevosnik@northshorerubber.com

1.4 Emergency Telephone Number(s): (800) 574-4285

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification:

Not classified under any hazard class according to US Hazard Communication Standard (HCS 2012) and Canada Hazardous Products Regulations (WHMIS 2015)

2.2 Label Elements

Not applicable; product not classified.

2.3 Other Hazards

When heating to decomposition (>300°C) or under fire conditions, product may generate dense smoke, irritating and toxic fumes. Heated product can cause thermal burns to exposed skin. Heated product may release flammable fumes and gases.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Re-claimed devulcanized rubber from waste rubber products. Polymer material. Contains no hazardous ingredients, according to OSHA HazCom 2012 and WHMIS 2015 criteria.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures:

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell or are concerned.



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- Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. DO NOT attempt to manually remove anything stuck to eye(s). If irritation persists, get medical attention.
- Skin Contact:** Rinse skin with plenty of water. If irritation persists, get medical advice.
- Ingestion:** Call a POISON CENTER or doctor if you feel unwell.

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

Inhalation: During processing, fumes from heated rubber may cause irritation to the nose, throat, and upper respiratory tract. Symptoms may include nausea, coughing, sore throat, and headache.

Eye Contact: During processing, fumes from heated rubber may cause eye irritation.

Skin Contact: Particulates may be abrasive to skin. During processing, hot rubber material can cause thermal burns.

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

Thermal burns must be treated promptly; get immediate medical attention.

4.4 Medical conditions aggravated by exposure:

Not available

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Use dry chemical, CO₂, water spray or appropriate foam. Use water spray to cool fire-exposed product and prevent re-ignition.

Unsuitable extinguishing media: Use caution when using water. Do not apply direct water stream to hot, molten material as it may spread the fire.

5.2 Special hazards arising from the product:

Rubber material does not ignite readily, however once ignited, it may be difficult to extinguish.

During a fire, products of combustion may include carbon monoxide, carbon dioxide, sulfur oxides, dense black smoke, and other irritating or toxic fumes. Fumes and gases formed from thermal decomposition may be flammable.

5.3 Special protective equipment and precautions for firefighters

As for any fire, evacuate the area and fight the fire from a safe distance.

Firefighters must wear full protective equipment including self-contained breathing apparatus with chemical protective clothing when exposed to decomposition products from this material.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Wear suitable protective clothing, gloves, and eye or face protection.

6.2 Environmental precautions

Avoid release to environment and prevent material from entering sewers and public waters.

6.3 Methods and material for containment and cleaning up

Allow the material to cool. Sweep or shovel spills into appropriate container for recycling or disposal. This material and its container must be disposed of in a safe way, and as per local legislation.



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SECTION 7 STORAGE AND HANDLING

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety procedures. Do not handle until all safety precautions have been read and understood. Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Store away from sources of heat and ignition.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredient	ACGIH® TLV®	Other Exposure Limits
Re-claimed devulcanized rubber	None established	None known

8.2 Engineering Controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection. Have equipment available for use in emergencies such as spill or fire.

8.3 Individual protection measures

Eye protection: Wear approved chemical safety goggles. Wear a face-shield or full-face respirator when needed to prevent exposure to irritating fume.

Skin protection: Wear thermal protective gloves and clothing as needed to prevent burns to skin. Wear safety boots. Evaluate resistance under conditions of use and maintain protective clothing carefully. Take off contaminated clothing and wash it before reuse. Contact safety supplier for specifications.

Respiratory protection: When fume concentrations in air exceed the occupational exposure guidelines, wear an approved air purifying or supplied-air respirator. Consult with respirator manufacturer to determine respirator selection, use, and limitations. A respiratory protection program that meets the regulatory requirement, such as OSHA's 29 CFR 1910.134, ANSI Z88.2 or Canadian Standards Association (CSA) Standard Z94.4, must be followed whenever workplace conditions warrant a respirator's use.

Other protection: Have adequate washing facilities and eyewash fountain available in the work area. Do not eat, drink, or smoke where this material is handled, stored, and processed. Wash hands



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thoroughly before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Solid. Black rubber strips, strands, and chunks.
Odor:	Odor of rubber
Odor threshold:	Not available
pH:	Not applicable
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	>300°C decomposes
Flash point:	Not applicable
Flammability (solid, gas):	Not classified as flammable. Product will burn if strongly heated or if involved in a fire.
Upper/lower flammability or explosive limits:	Not applicable
Evaporation rate:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility (ies):	Insoluble in water
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	>300°C
Viscosity:	Not applicable

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known under normal conditions of use.

10.2 Chemical stability

Stable under recommended handling and storage conditions (see Section 7).

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Avoid conditions of extreme heat and sources of ignition

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products



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Combustion and thermal decomposition products may include irritating, toxic, and flammable gases and fumes.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Likely routes of exposure

Inhalation of fume; Skin contact; Eye contact.

Acute toxicity

Inhalation: Data not available. Inhalation exposures are unlikely to occur unless product is heated or forms airborne particulate during processing operations.

Ingestion: Data not available. Low acute toxicity by the oral route.

Skin: Not absorbed through the skin.

Skin corrosion / irritation

Data not available. May cause abrasion in contact with skin. Hot, molten product can cause thermal burns.

Serious eye damage/ irritation

Data not available. Thermal decomposition (>300° C) fumes may cause eye irritation.

STOT (Specific Target Organ Toxicity) - Single exposure

Data not available. Airborne exposures are unlikely to occur unless product is heated or forms airborne particulate during processing operations. Thermal decomposition (>300°C) may release irritating fumes.

STOT (Specific Target Organ Toxicity) - Repeated exposure

Data not available.

Aspiration hazard

Does not meet criteria for classification for aspiration toxicity.

Sensitization - respiratory and/or skin

Data not available.

Carcinogenicity

This material is not considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH[®] (American Conference of Governmental Industrial Hygienists, OSHA (Occupational Safety and Health Administration) or NTP (National Toxicology Program).

Reproductive toxicity

Data not available

Germ cell mutagenicity

Data not available

Interactive effects



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Data not available

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Not available. Polymer material expected to be inert in the environment.

12.2 Persistence and degradability

Not readily biodegradable. Insoluble in water. Some degradation may occur from exposure to sunlight.

12.3 Bio accumulative potential

Not available.

12.4 Mobility in soil

Not available.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Recycle or dispose of waste rubber in accordance with applicable federal, state, and local government regulations.

SECTION 14 TRANSPORT INFORMATION

14.1 UN Number

Not regulated

14.2 UN proper shipping name

Not available

14.3 Transport hazard class(es)

Not available

14.4 Packing group

Not available

14.5 Environmental hazards

Not classified as environmentally hazardous.

14.6 Special precautions for user

Not available

14.7 U.S. Hazardous Materials Regulation (DOT 49CFR):

Not regulated

14.8 Canada Transportation of Dangerous Goods (TDG) Regulations:

Not regulated



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SECTION 15 REGULATORY INFORMATION

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

Canada

NSNR status: All ingredients are listed on the DSL or are not required to be listed.

USA

TSCA status: All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

European classification

Not classified in any hazard class according to Classification, Labelling and Packaging (CLP) Regulation ((EC) No 1272/2008)

SECTION 16 OTHER INFORMATION

Revision date: 2/18/2021
Indication of changes: updated contact information
Author: KAP

References and sources for data:

Supplier information
CCOHS - Canadian Centre of Occupational Health and Safety
CCOHS Cheminfo, Styrene-butadiene copolymers
CNESST - Commission des normes, de l'équité de la santé et de la sécurité du travail

Legend to abbreviations:

ACGIH[®] - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
WHMIS - Workplace Hazardous Materials Information System.

Other information:

The Safety Data Sheet is prepared solely for the purpose of providing employees with information regarding potential hazards presented by the listed substance(s) in the context of their intended use in their work environment (including foreseeable emergencies). The substance(s) may present greater or lesser hazards under other circumstances. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. The user is responsible to satisfy oneself as to the suitability and liability for any loss or damage that may occur from the use of this information. We do not offer warranty against patent infringement.