



## SAFETY DATA SHEET

### SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Westco DNPD**  
SDS Manufacturer Number: 42

Other means of identification:

Product Description: Chemical Description: N,N'-Di(beta-Naphthyl)-p-Phenylenediamine, Rubber antioxidant  
Synonyms: N,N'-Di(beta-Naphthyl)-p-Phenylenediamine, Accelerator DNP, DNPD

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Mainly used to produce tire, cable, adhesive tape and other rubber products. It is an inhibiting agent for chain rupture and metal complex agent with excellent heat-aging resistance, natural-aging resistance and resisting harmful metal such as copper, manganese, etc.

Chemical distributor, or other responsible party Name, address, and telephone number:

Distributor Name: Western Reserve Chemical Corporation  
Address: 4837 Darrow Road  
Stow, OH 44224  
USA  
General Phone Number: 330 650 2244  
General Fax Number: 330 650 2255

Emergency phone number:

Emergency Phone Number: Chemtrec 1 800 424 9300 USA  
Website: www.wrchem.com

### SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word: WARNING!

GHS Class: \* Skin Irritant, Category 3.  
\* Eye Irritant, Category 2B.  
\* Acute Toxicity Oral, Category 4.

Hazard Statements: \* May be harmful if swallowed or if inhaled

Precautionary Statements: \* Wash hands thoroughly after handling.  
\* Do not eat, drink or smoke when using this product.  
\* Use personal protective equipment as required.  
\* IF ON SKIN: Wash with plenty of soap and water.  
\* IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
\* IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazards not otherwise classified that have been identified during the classification process:

OSHA Class: No Information Provided.

Emergency Overview: Exposure to dust may be irritating to eyes, nose, and throat.

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects: Dusts and particles from this product may cause irritation.

Acute Health Effects: No Information Provided.

Eye: May cause watering, redness and stinging sensation.

Skin: May cause itching and redness. Prolonged or repeated skin contact may cause an allergic reaction.

Inhalation: Unlikely due to physical form. Inhalation of process fumes may irritate the nose and throat.

Ingestion: Mildly toxic if ingested.

Chronic Health Effects: \* Prolonged or excessive inhalation may cause respiratory tract irritation.  
\* Prolonged or repeated contact with dust of this product may cause an allergic skin reaction.  
\* May cause damage to liver and kidney through prolonged or repeated exposure.

**Carcinogenicity:** None of the components in this product are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

**Physical Health Hazard:** This product may irritate the eyes, skin and gastrointestinal tract. Chronic poisoning may cause liver and kidney damage and alcohol intolerance.

### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
N,N'-Di(beta-Naphthyl)-p-Phenylenediamine	93-46-9	98 %	

### SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

**Eye Contact:** Flush eyes immediately with plenty of water for 15 minutes including under upper and lower eyelids. Washing eyes within one minute is essential to achieve maximum effectiveness. Remove contact lenses after the first 5 minutes. Obtain medical attention from a licensed healthcare professional as soon as possible.

**Skin Contact:** Wash affected area immediately in flowing water for at least 15 minutes and consult medical attention from a licensed healthcare professional.

**Inhalation:** Remove to fresh air immediately and consult medical attention from a licensed healthcare professional.

**Ingestion:** If conscious, dilute with 3-4 glasses of water; Seek medical attention from a licensed healthcare professional. Do not induce vomiting unless directed to do so by medical personnel.

**Notes :** In case of doubt, seek medical advice.

### SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

**Suitable Extinguishing Media:** Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Specific hazards arising from the chemical:

**Hazardous Combustion Byproducts:** Thermal decomposition should produce only normal hydrocarbon combustion products. Products of thermal decomposition may be harmful.

**Unusual Fire Hazards:** Emits toxic fumes under fire conditions.

Special protective equipment and precautions for fire-fighters:

**Protective Equipment:** Firefighters should wear NIOSH-approved self-contained breathing apparatus with full face piece, operated in positive pressure mode. Wear full firefighting protective clothing.

**Fire Fighting Instructions:** Wear self-contained breathing apparatus and protective clothing to Prevent contact with skin and eyes.

**Notes :** Non-combustible and non-explosive as supplied. If ignited by excessive heat or open flame, this product will burn. Burning material may emit toxic fumes. Use water fog to cool containers exposed to extreme heat.

### SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

**Personal Precautions:** Wear personal protective equipment such as a respirator, chemical safety goggles, apron or coveralls and heavy Rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Methods and materials for containment and cleaning up:

**Spill Cleanup Measures:** Methods for cleaning up/taking up: Recover as much as possible; wash floors afterwards with water. Smaller spills may be wiped from surfaces for absorbed onto inert material and handled as solid waste. Place discarded material in closed, labelled containers for disposal. Do not allow material into sewers, on the ground or into any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Must be disposed of in accordance with all local, state, federal and international regulations.

**Notes :** Additional information: See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

### SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

<b>Handling:</b>	Adhere to work practice rules established by government regulations. Advice on protection against fire and explosion: None known; non-combustible and non-explosive as supplied.
<b>Hygiene Practices:</b>	<ul style="list-style-type: none"> <li>* Follow good industrial hygiene practices when handling this material.</li> <li>* Do not inhale vapors, fumes or mists of this product.</li> <li>* Wash exposed areas thoroughly after handling this product.</li> <li>* When using, do not eat, drink or smoke.</li> </ul>
<u>Conditions for safe storage, including any incompatibilities:</u>	
<b>Storage:</b>	Storage requirements: *Use reasonable care to avoid skin and eye contact. * Do not eat, drink or smoke in working area. *Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. * Keep containers closed when not in use. *Protect containers against physical damage. *Store in a cool, dry, well-ventilated area.
<u>Specific end use(s):</u>	
<b>Work Practices:</b>	Safety showers and eye wash stations should be available.
<b>Notes :</b>	Storage/Transport Information: Avoid strong oxidizing agents and excessive heat. Storage/Transport Temperature, degrees F (C) 40 – 90 (4.4 – 32.2)

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

#### Appropriate engineering controls:

**Engineering Controls:** Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

#### Individual protection measures:

<b>Eye/Face Protection:</b>	Chemical safety goggles.  Recommend the use of safety eyewear including splashguards or side shields. If splashing is likely, wear a face shield.
<b>Skin Protection Description:</b>	Body: Gloves, Apron or protective coveralls may be needed to help prevent soiling of skin and clothing. Contaminated clothing and shoes should be cleaned before reuse or disposed of as necessary. It is recommended that a shower be taken after completion of workshift, especially if significant contact has occurred. Street clothing should be stored separately from work clothing and protective equipment. Work clothing and shoes should not be taken home.
<b>Hand Protection Description:</b>	Use gloves impervious to this material. The breakthrough time of the selected gloves must be greater than the intended use period. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements. Potential body reactions to glove materials, as well as the instructions/specifications provide by the glove supplier. Before eating, drinking, smoking or using the toilet, wash face and hands thoroughly with soap and water.
<b>Respiratory Protection:</b>	Use respiratory protection in accordance with your company's respiratory protection program, local regulations and OSHA regulations under 29 CFR 1910.134.

#### **PPE Pictograms:**



## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

### PHYSICAL AND CHEMICAL PROPERTIES:

<b>Physical State:</b>	Appearance: Solid (powder)
<b>Color:</b>	Gray to brown
<b>Odor:</b>	Characteristic
<b>Boiling Point:</b>	232-134 deg C (dec.)
<b>Melting Point:</b>	225°C min
<b>Specific Gravity:</b>	@ 72F (22.2C): 1.25 (H2O = 1)
<b>Solubility:</b>	In water, wt: Negligible
<b>Vapor Pressure:</b>	No information available
<b>Auto Ignition Temperature:</b>	No information available
<b>Explosive Properties:</b>	Explosion limits: No information available

#### 9.2. Other information:

**Notes :** Flammability: Non-flammable in aqueous form

## SECTION 10 : STABILITY and REACTIVITY

### Chemical Stability:

<b>Chemical Stability:</b>	Stable.
<b>Possibility of hazardous reactions:</b>	
<b>Hazardous Polymerization:</b>	Hazardous polymerization will not occur.
<b>Conditions To Avoid:</b>	
<b>Conditions to Avoid:</b>	Avoid freezing, heat, sparks, open flames or sources of ignition and strong oxidizing agents, acids or caustics.
<b>Incompatible Materials:</b>	
<b>Incompatible Materials:</b>	Materials to avoid strong oxidizing agents, acids or caustics.
<b>Hazardous Decomposition Products:</b>	
<b>Special Decomposition Products:</b>	Thermal decomposition should produce only normal hydrocarbon combustion products, Products of thermal decomposition may be harmful.

## SECTION 11 : TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION:

<b>Acute Toxicity:</b>	Acute effects: May be harmful by inhalation, ingestion, or skin absorption.
<b>Skin:</b>	Dermal Toxicity in Rabbits: LD50: >7940 mg/kg
<b>Inhalation:</b>	Inhalation Toxicity in Rats LC50: 5000 mg/m <sup>3</sup>
<b>Ingestion:</b>	Oral Toxicity in Rats: LD50: 4500 mg/kg
<b>Carcinogenicity:</b>	ACGIH-A4 IARC-3 EPA,NTP,OSHA -Not determined
<b>Notes :</b>	No data available for Chronic Toxicity, Carcinogenicity, Mutagenicity or reproductive effects. Refer to Section 3 for Available information on health effects. Worker exposure to DNPD should be minimized

## SECTION 12 : ECOLOGICAL INFORMATION

### Ecotoxicity:

<b>Ecotoxicity:</b>	Acute LC50 (Trout) - 32 ppm (96 hrs) Acute LC50 (Algae) - 10 mg/l (96 hrs)
---------------------	---

<b>Environmental Fate:</b>	No Information Provided.
----------------------------	--------------------------

### Persistence and degradability:

<b>Biodegradation:</b>	No Information Provided.
------------------------	--------------------------

### Bioaccumulative potential:

<b>Bioaccumulation:</b>	No Information Provided.
-------------------------	--------------------------

### Other adverse effects:

<b>Effect of Material On Aquatic Life:</b>	No Information Provided.
--	--------------------------

## SECTION 13 : DISPOSAL CONSIDERATIONS

### Description of waste:

<b>Waste Disposal:</b>	Product: Do not allow material into sewers, on the ground or inot any body of water. Measurement of certain physical properties and analysis for regulated components may be necessary to make a determination for product meeting the criteria of a hazardous waste. Empty' containers retain product residue and should be handled with caution. Must be disposed of in accordance with all local, state, federal and international regulations.  Contaminated packaging: No information available.
------------------------	---

## SECTION 14 : TRANSPORT INFORMATION

<b>DOT Shipping Name:</b>	Non regulated.
---------------------------	----------------

**DOT Pictograms:**



<b>IATA Shipping Name:</b>	Non regulated.
----------------------------	----------------

**IATA Pictograms:**



<b>IMDG Shipping Name :</b>	Non regulated.
-----------------------------	----------------

<b>ADR Shipping Name :</b>	Non regulated.
----------------------------	----------------

<b>RID Shipping Name :</b>	Non regulated.
----------------------------	----------------

ICAO Shipping Name: Non regulated.

## SECTION 15 : REGULATORY INFORMATION

### Safety, health and environmental regulations specific for the product:

**TSCA Inventory Status:** All components of this product are listed in the TSCA inventory of Chemicals Substances.

**CERCLA Section 302:** Hazardous substance N/A

**Section 313:** Under Title III, Section 313 this product is classified as an Acute/Chronic health hazard material. Form R Reporting required

**State Regulations:** CT, FL, IL, LA, MA, MI, MN, NJ, NY, PA RTK's - Product Listed

**Risk Phrases:**  
\* R36/38 - Irritating to eyes and skin.  
\* R322 - May be harmful if swallowed.

**Safety Phrase:**  
\* S 3 - Keep in a cool place.  
\* S 8 - Keep container dry.  
\* S 9 - Keep container in a well-ventilated place.  
\* S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
\* S36 - Wear suitable protective clothing.  
\* S46 - If swallowed, seek medical advice immediately and show this container or label.



## SECTION 16 : ADDITIONAL INFORMATION

### HMIS Ratings:

**HMIS Health Hazard:** 1  
**HMIS Fire Hazard:** 1  
**HMIS Reactivity:** 0  
**HMIS Personal Protection:** F

<b>Health Hazard</b>	<b>1</b>
<b>Fire Hazard</b>	<b>1</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>F</b>

**SDS Revision Date:** July 08, 2015

**Notes :** Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

Copyright© 1996-2018 Enviance. All Rights Reserved.