



**HARWICK**  
S T A N D A R D

*Safety Data Sheet*  
**STANGARD<sup>®</sup> ODP FLAKE/POWDER**  
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## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### **PRODUCT IDENTIFIER: STANGARD<sup>®</sup> ODP FLAKE/POWDER**

#### **Other means of identification**

**Product Name:** Stangard<sup>®</sup> ODP, octylated diphenylamine

**Chemical name:** bis (4-)1,1,3,3-tetramethylbutyl) phenyl)amine

**Recommended use and restrictions on use:** Rubber Additive

#### **Supplier information:**

##### **Manufactured for and supplied by:**

**Supplier:** Harwick Standard Distribution Corporation

**Supplier Address:** 60 S. Seiberling Street, Akron, OH 44305

**Contact:** Health, Safety & Environment

**Telephone:** 330-798-9300

**Website:** [www.harwickstandard.com](http://www.harwickstandard.com)

## SECTION 2 – HAZARD(S) IDENTIFICATION

#### **Classification of the substance or mixture:**

Acute toxicity, Oral, Category 4

Skin irritation, Category 2

Eye irritation, Category 2

Specific target organ toxicity-single exposure, Category 3

**OSHA Regulatory Status:** Classified as hazardous based on components.

#### **GHS Label Elements**

##### **Hazard Symbol:**



**Signal word:** Warning

##### **Hazard statements:**

Harmful if swallowed.

Causes skin irritation.



Causes serious eye irritation.  
Harmful if inhaled.  
May cause respiratory irritation

**Precautionary Statements:**

Wash hands thoroughly after handling.  
IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Collect spillage.  
Dispose of contents/container to an approved waste disposal plant.

**Hazard(s) not otherwise classified (HNOC):** Not classified.

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

**Substance/mixture:**

Chemical Identity	CAS Number	Weight%
bis (4-)1,1,3,3-tetramethylbutyl) phenyl)amine	15721-78-5	>85%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**SECTION 4 – FIRST AID MEASURES**

**Inhalation:** Remove to fresh air or give oxygen. Consult a physician.

**Ingestion:** Do not induce vomiting. Refer to a physician.

**Skin contact:** Wash with soap and water. Consult doctor if irritation persists.

**Eye contact:** Flush abundantly with clean water for at least 15 minutes and refer to a physician.

**Most important symptoms/effects, acute and delayed:**

**Potential acute health effects:**



**Eye contact:** May cause irritation to eyes and mucous membrane.  
**Inhalation:** No known significant effects or critical hazards.  
**Skin contact:** May cause dryness and cracking on skin.  
**Ingestion:** Liquid ingest may cause vomiting.

**Over-exposure signs/symptoms:**

**Eye contact:** No specific data  
**Inhalation:** No specific data  
**Skin contact:** No specific data  
**Ingestion:** No specific data

**Indication of immediate medical attention and special treatment needed:** Treat symptomatically.

#### SECTION 5 – FIRE FIGHTING MEASURES

**Suitable extinguishing method:** In case of fire, use carbon dioxide (CO<sub>2</sub>), foam or dry chemical.

**Unsuitable extinguishing method:** Do NOT use water jet.

**Specific hazards arising from chemical:** Vapor is heavier than air and may travel to considerable distance to source of ignition and flashback.

**Firefighting equipment/instructions:** Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective equipment.

#### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:** Wear protective gloves and self contained breathing apparatus. Do not touch or walk through spilled material. Avoid breathing dust. Avoid contact with heat and spark. Provide adequate ventilation to avoid accumulation of vapors. Avoid dust formation.

**For emergency personnel:** Do not inhale dust or vapors.

**Methods and materials for containment and cleaning up:**

Cover the drains. Dike if needed. Store in tightly closed containers. Wash the area of spillage thoroughly with water. Absorb spilled material in sand, vermiculite. Place the absorbed material into steel container and cover.

#### SECTION 7 - HANDLING AND STORAGE



**Precautions for safe handling:** Handle in well-ventilated area. Avoid contact with skin and eyes. Avoid contact with strong oxidizing agents. Prevent from entering sewer system, surface water or soil. Do not eat, drink or smoke in work areas. Always wash hands after use

**Conditions for safe storage, including any incompatibilities:** Prevent formation of vapors. Avoid contact with heat, open flames and sparks. Avoid contact with strong oxidizing agents. Store in dry, cool place. Store at room temperature. Store away from sunlight. Store away from moisture. Store in well-ventilated area. Keep in tightly closed containers. Provide sufficient ventilation in storage rooms.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational Exposure Limits:** Control parameters  
As particles not otherwise specified (PNOS)  
TWA: 10 mg/m<sup>3</sup> total dust  
3 mg/m<sup>3</sup> respirable dust (ACGIH)

**Appropriate engineering controls:** Use local exhaust to remove vapors during processing.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Wear safety glasses with side shields.

**Skin protection:**

**Hand protection:** Wear PVC gloves.

**Other protection:** Wear full protective clothing as required to prevent skin contact.

**Respiratory protection:** Use NIOSH/MSHA approved atmosphere supplying or air purifying respirator for organic vapors.

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

**Appearance:** Solid (Granular powder /Flakes)  
**Odor:** Characteristic  
**pH:** Not available  
**Boiling Point/Range:** Not available  
**Melting Point/Range:** 91°C - 103°C  
**Flash Point (°C):** 257°C (495°F)  
**Evaporation rate:** Not available  
**Flammability:** Not flammable below 950°C  
**Upper/lower flammability or  
Explosive limits**    **Lower limit:** 1%  
                                 **Upper limit:** 7%



<b>Vapor Pressure:</b>	5.05E-08 mmHg at 25°C
<b>Vapor Density:</b>	3.2
<b>Bulk Density:</b>	0.480 g/cm <sup>3</sup> at 32°C
<b>Solubility:</b>	Soluble in organic solvents, 27.4 g/L in Methanol. Practically insoluble in water.
<b>Partition Coefficient: (n-octanol/water)</b>	log Pow at 25°C --10.82
<b>Auto-ignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Explosive Properties:</b>	Not available
<b>Oxidizing properties:</b>	Mild oxidizing

## SECTION 10 - STABILITY & REACTIVITY

**Reactivity:** May react with strong oxidizing agents.

**Chemical stability:** Material is stable under recommended storage and handling conditions.

**Possibility of hazardous reactions:** Low possibility in stored under normal conditions (i.e. away from heat, sparks and strong oxidizing agents).

**Conditions to avoid:** Avoid contact with heat, open flames, sparks, hot surfaces and strong oxidizing agents.

**Incompatible materials:** Avoid contact with strong oxidizing agents.

**Hazardous decomposition products:** Oxides of carbon and oxides of nitrogen.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Acute Toxicity:**       **Oral:** LD50 (Rat): >5,000 mg/kg  
                              **Inhalation:** LC50(Rat): Dust and mist >5.8 mg/l (One-hour)

**Skin Irritation/Corrosion:** Non-irritant to the skin (Rabbit)

**Eye Damage/Irritation:** Non-irritant to the eyes (Rabbit)

**Respiratory or Skin Sensitization:** Not available

**Reproductive Toxicity:** Not available

**Germ cell Mutagenicity:** Not available

**Carcinogenicity:** Not available



**STOT-single exposure:** Not available

**STOT-repeated exposure:** Not available

**Aspiration hazard:** Not available

**Information on likely routes of exposure:**

Skin: May cause dryness of skin.

Inhalation: May cause irritation of respiratory tract.

Ingestion: May cause vomiting.

**Symptoms related to the physical, chemical and toxicological characteristics:**

Eyes: Exposure may cause irritation to the eyes and mucous membrane.

Skin: May cause dryness and cracking of skin.

Ingestion: Liquid ingestion may cause vomiting.

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

**Effects of Short-term exposure:** May cause acute nausea or narcosis.

**Effects of Long-term exposure:** May cause Liver abnormalities, lungs and spleen damage. In animals, it may cause anemia, kidney and eye damage.

## SECTION 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:**

Fish---LC50=67.754 mg/L

Invertebrates---EC50=13.5034 mg/L

Algae---EC50=17.465 mg/L

**Persistence and degradability:** Not readily biodegradable.

Photo degradation: Half life ( $t_{1/2}$ ) = 0.052 days (EPIWin)

**Bioaccumulative potential:** Bioaccumulation estimates from log Kow (BCFWIN v2.17):

Log BCF from regression-based method =0.500 (BCF =3.162)

Log Low used: 10.821 (estimated)

**Mobility in soil:** Soil Adsorption Coefficient (PCKOCWIN v1.66):

Koc: 6.282E+006

Log Koc: 6.798

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Disposal instructions:** Dispose according to Federal, State and Local chemical and waste disposal regulations. Do not allow to enter into drainage system.



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#### SECTION 14 - TRANSPORTATION INFORMATION

**U.S. DOT Classification:** Not regulated

#### SECTION 15 - REGULATORY INFORMATION

**U.S.:**

**TSCA Inventory Status:** All chemical components are listed on or exempt from the TSCA inventory.

#### SECTION 16 - OTHER INFORMATION

**Issue date:** 05-11-2015

**Version #:** 01

**Revision Information:** GHS Format

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