

# Dusantox OPDA

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
<b>Manufacturer</b> DUSLO, A. S. 927 03 Šaľa 836 03 Bratislava, Slovakia Republic Phone (42) 0706/2561 drop 4100 Fax (42) 0706/5643 Fax (42) 0706/3000	<b>Emergency Contact</b> Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)  Duslo (in Slovakia): 00421/706/754112
<b>Trade Name(s):</b> Dusantox ODPa	<b>Synonyms:</b> ODPa, Bis(4-(1, 1,3,3-tetramethylbutyl)phenyl)amine
<b>Chemical Name:</b> N-(1,3-dimethylbutyl) -N'-phenyl-p-phenylenediamine	<b>CAS Number:</b> 15721-78-5
<b>Relevant identified uses of the substance or mixture and uses advised against:</b> No further relevant information available.	<b>Application of the substance/the preparation:</b> Rubber Compounding and general usage.
<b>Issued By:</b> Sovereign Chemical Company  According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	<b>Date of Issue:</b> June 7, 2021

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable:

H412 Harmful to aquatic life with long lasting effects  
 Aquatic Environment Chronic Hazard, Category 3

### 2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

Signal word: Warning

Hazard statements

The following Hazard Statements are applicable:

H412 Harmful to aquatic life with long lasting effects  
 P273 Avoid release to the environment.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

CAS No. Description: 15721-78-5, Bis(4-(1, 1,3,3-tetramethylbutyl)phenyl)amine,  $\geq 84\%$

Identification number(s)

EC number: 239-816-9

Isomer – alcylderivatives of main component,  $\geq 10\%$

CAS No. Description: 4175-37-5, 4-octyl-B-phenylaniline,  $\geq 5\%$

Identification number(s)

EC number: 224-040-5

No hazardous mixtures.

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

General information: Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Drink cca 0.5 lukewarm water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed: Gastric or intestinal disorders.

Hazards: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing agents: Fragmented water current, water fog, foam, and powder.

Unsuitable extinguishing agents: Direct water jet.

5.2 Special hazards arising from the substance or mixture: Carbon oxides and nitrogen oxides.

5.3 Advice for firefighters

Insulating self-contained breathing apparatus, respirator with suitable filter.

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment, and emergency procedures  
Prevent excess dusting. Remove spilled product to avoid skin and eye contact.
- 6.2 Environmental precautions  
Prevent release to environment.
- 6.3 Methods and material for containment and cleaning up.  
Sweep up spilled product into the suitable bin, in case of uselessness burn out in incinerator.
- 6.4 Reference to other sections  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7. HANDLING AND STORAGE**

- 7.1 Precautions for safe handling  
Prevent formation of dust.  
Any unavoidable deposit of dust must be regularly removed.  
Maximum allowed temperature for transport is 45°C.
- 7.2 Conditions for safe storage, including any incompatibilities.  
Storage  
Packed product is stored in dry covered place. Maximum storage temperature is 45°C. Do not expose to direct solar radiation. Storage life in undamaged original packaging is two years under the observation of storage conditions.
- 7.3 Specific end use(s): No further relevant information available.

**8. EXPOSURE CONTROLS - PERSONAL PROTECTION**

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

***DNEL for workers***

Route	Exposure pattern	DNEL
Inhalation	Systemic effect, long-term	2.718201754 mg/m <sup>3</sup>
Dermal	Systemic effect, long-term	1.541666667 mg/kg bw/d

***DNEL for general population***

Inhalation	Systemic effect, long-term	0.670289855 mg/m <sup>3</sup>
Dermal	Systemic effect, long-term	0.770833333 mg/kg bw/d
Oral	Systemic effect, long-term	1.549375 mg/kg bw/d

***PNEC values:***

PNEC	Value	Assessment factor
freshwater	0.0135034 mg/L	1,000

marine water	0.00135034 mg/L	10,000
intermittent releases	0.135034 mg/L	100
sediment (fresh water)	549921.9718 mg/kg	--
sediment (marine water)	549921.9718 mg/kg	--
STP	100 mg/L	100
Soil	263554.3563 mg/kg	--

## 8.2 Exposure controls

### Personal protective equipment

#### General protective and hygienic measures

- Keep away from foodstuffs, beverages, and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

#### Respiratory protection

- Use suitable respiratory protective device in case of insufficient ventilation.
- Use suitable respiratory protective device when high concentrations are present.

#### Protection of hands



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection



Safety glasses

Body protection: Protective work clothing.

Limitation and supervision of exposure into the environment: No further relevant information available.

#### Risk management measures

- See Section 7 for additional information.
- No further relevant information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

#### General Information

<p>Appearance</p> <p>Form: Solid (flakes or pellets)</p> <p>Color: Light pink to light brown</p>	<p>Change in Condition</p> <p>Melting Point/Melting Range: min 85°C.</p> <p>Boiling Point/Boiling Range: 431.62°C at 101.3 kPa</p>
--	--

Odor: Odorless	Octanol/Water Partition Coefficient: Not determined.
Odor threshold: Not determined.	pH Value: 6.3 at 27°C (1% solution)
Vapor pressure: Not applicable.	Flash point: ca. 250°C.
Density at 20 °C: 935-970 kg. m <sup>3</sup> .	Flammability (solid, gaseous): Product is not flammable.
Relative density: Not determined.	Ignition temperature: Not determined.
Vapor density: Not applicable.	Decomposition temperature: Not determined.
Evaporation rate: Not applicable.	Self-igniting: Not determined
Solubility in / Miscibility with water: Insoluble.	Danger of explosion: Product does not present an explosion hazard.
Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: Not determined. Upper: Not determined.

9.2 Other information: No further relevant information available.

## 10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions: Reacts with strong acids and oxidizing agents.

10.4 Conditions to avoid: Creation of dust and sources of ignition.

10.5 Incompatible materials: Oxidizing materials.

10.6 Hazardous decomposition products

Nitrogen oxides and carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral: Mouse, female, oral, gavage, OECD LD50 8,600 mg/kg bw

Dermal: Rabbit, male/female, dermal, OECD LD50 2,962.14 mg/kg bw

## 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: Toxic for aquatic organisms

Short-term toxicity to fish:

LC<sub>50</sub> (96 h): 67.754 mg/L

Short-term toxicity to aquatic invertebrates:

EC<sub>50</sub>/LC<sub>50</sub> (48 h): 13.5034 mg/L

Overview of effects on algae:

EC<sub>50</sub>/LC<sub>50</sub>: 17.465 mg/L

Microbiological activity in sewage treatment system:

activated sludge; ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge):

EC<sub>50</sub> (3 h): 10,000 mg/L

12.2 Persistence and degradability: Hydrolysis – the substance is highly insoluble in water. Substance is not biodegradable. Half-life period in water is 180 days while in sediment is 1600 days.

12.3 Bio-accumulative potential: No further relevant information available.

BCF=180

12.4 Mobility in soil: Negligible

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

**13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

Recommendation

This material and/or its container must be disposed of as hazardous waste. In case of technical uselessness dispose in the garbage disposal plant or stockpile of dangerous waste according to official regulations. Product residues must not be washed away into water source and public drainage.

Recommendation: Disposal must be made according to official regulations.

**14. TRANSPORTATION INFORMATION**

14.1 UN-Number

DOT N/A

ADR, IMDG, IATA N/A

14.2 UN proper shipping name:

DOT N/A

ADR N/A

IMDG N/A

IATA N/A

14.3 Transport hazard class(es)

DOT, Class N/A

ADR

14.4 Packing group

DOT N/A

ADR, IMDG, IATA N/A

14.5 Environmental hazards No

14.6 Special precautions for user No

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

**15. REGULATORY INFORMATION**

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture  
United States (USA)

SARA Section 355 (extremely hazardous substances)	Substance is not listed.
SARA Section 313 (Specific toxic chemical listings)	Substance is not listed.
TSCA (Toxic Substances Control Act)	Substance is listed.
Proposition 65 (California)	
Chemicals known to cause cancer	Substance is not listed.
Chemicals known to cause reproductive toxicity for females	Substance is not listed.
Chemicals known to cause reproductive toxicity for males	Substance is not listed.
Chemicals known to cause developmental toxicity	Substance is not listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	Substance is not listed.
IARC (International Agency for Research on Cancer)	Substance is not listed.
TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed.
Canada	
Canadian Domestic Substances List (DSL)	Substance is listed.
Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.
Canadian Ingredient Disclosure list (limit 1%)	Substance is not listed.

15.2 According to the Regulation REACH, Article 14 a chemical assessment of this substance was carried out.

**16. OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.