

# Antiozonant Dox 1

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
<b>Manufacturer</b> DJCHEM Chemicals Poland SA 5-200 WOLOMIN Lukaszewicza 11A, Poland	<b>Emergency Contact</b> Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
<b>Trade Name(s):</b> Dox 1 Pastilles	<b>Synonyms:</b> Diaryl PPD, DTPD, Mixed diaryl-p-phenylenediamine
<b>Chemical Name:</b> N'N-diaryl-paraphenylene diamine mixture	<b>CAS Number:</b> 68953-84-4
<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.
<b>Issued By:</b> Sovereign Chemical Company  According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	<b>Date of Issue:</b> November 1, 2018

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture  
 Classification according to Regulation (EC) No 1272/2008  
 Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).  
 The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation:  
 H400, H410.

Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.
Skin Irrupt. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.

Information concerning particular hazards for human and environment: Not applicable.

### 2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System (GHS) within the United States.

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

Hazard pictograms



GHS07



GHS09

Signal word: Warning

Hazard-determining components of labeling

N'N-diaryl-paraphenylene diamine mixture  
 Synonyms: Diaryl PPD, DTPD, Mixed diaryl-pphenylenediamine

## Hazard statements

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H410 Very toxic to aquatic life with long lasting effects.

## Precautionary statements

P280 Wear protective gloves and eye protection.  
 P264 Wash thoroughly after handling.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.

## Hazard description

NFPA ratings (scale 0-4)



Health = 1  
 Fire = 0  
 Reactivity = 0

HMIS ratings (scale 0-4)

HEALTH	1
FIRE	0
REACTIVITY	0

Health = 1  
 Fire = 0  
 Reactivity = 0

HMIS Long Term Health Hazard Substances: Substance is not listed.

## 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: 68953-84-4, N'N-diaryl-paraphenylene diamine mixture

Synonyms: Diaryl PPD, DTPD, Mixed diaryl-pphenylenediamine

Identification number(s)

EC number: 273-227-8

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult a 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

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Asthma attacks

Gastric or intestinal disorders

Allergic reactions

Hazards: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

If swallowed, gastric irrigation.

Medical supervision for at least 48 hours.

## 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents

CO<sub>2</sub>, powder or water spray.

Fight larger fires with water spray or alcohol resistant foam.

For safety reasons, unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: No further relevant information available.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid formation of dust.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.

#### 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.  
Information about fire - and explosion protection: No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

Requirements to be met by storerooms and receptacles

Store in a cool location.  
Protect from humidity and water.  
Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility

Store away from oxidizing agents.  
Store away from foodstuffs.

Further information about storage conditions: Store in cool, dry conditions in well-sealed receptacles.

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 Section 7.

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

DNELs: No further relevant information available.

PNECs: No further relevant information available.

Additional information: The lists valid during the making were used as basis.

### 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 when high concentrations are present.  
Use suitable respiratory protective device in case of insufficient ventilation.  
For spills, respiratory protection may be advisable.

#### Protection of hands



**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Neoprene gloves

Nitrile rubber, NBR

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

Appearance Form: Solid Color: Steel brown	Change in Condition Melt Point/Range: Undetermined Boiling Point/Range: Undetermined
Odor: Characteristic	Odor threshold: Not determined
pH: Not applicable	Flash point: Not applicable
Vapor Pressure: Not applicable	Flammability (solid, gaseous): Product is not flammable.
Density at 20 °C: 1.18 g/cm <sup>3</sup>	Ignition temperature: Not determined
Relative density: Not determined.	Decomposition temperature: Not determined
Vapor Density: Not applicable	Self-igniting: Not determined.
Evaporation rate: Not applicable.	Danger of explosion: Product does not present an explosion hazard.
Solubility in / Miscibility with water: Soluble.	Partition coefficient (n-octanol/water): Not determined.
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

As the product is supplied it is not capable of dust explosion; however, enrichment with fine dust causes risk of dust explosion.

Reacts with strong acids.

Reacts with strong oxidizing agents.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

### 10.6 Hazardous decomposition products

Nitrogen oxides

Carbon monoxide and carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Primary irritant effect

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritant effect.

Sensitization: Sensitization possible through skin contact.

Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Aquatic toxicity: Toxic for aquatic organisms.

12.2 Persistence and degradability: Not easily biodegradable.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

#### Ecotoxicological effects

Remark: Very toxic for fish

Additional ecological information:

##### General notes

This statement was deduced from products with a similar structure or composition.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Danger to drinking water if even small quantities leak into the ground.  
 Also, poisonous for fish and plankton in water bodies.  
 Very toxic for aquatic organisms

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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
 Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Uncleaned packaging

Recommendation: · Disposal must be made according to official regulations.  
 Recommended cleansing agents: Water, if necessary together with cleansing agents.

**14. TRANSPORTATION INFORMATION**

14.1 UN-Number

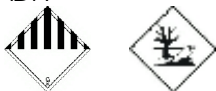
DOT	N/A
ADR, IMDG, IATA	UN3077

14.2 UN proper shipping name

DOT	N/A
ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N. O. S. (N' N-diaryl-paraphenylene diamine mixture Synonyms: Diaryl PPD, DTPD, Mixed diaryl pphenylenediamine)
IMDG	Environmentally hazardous substances, Solid, N.O.S. (N'N-diaryl-paraphenylene diamine mixture. Synonyms: Diaryl PPD, DTPD, Mixed diaryl-pphenylenediamine)
IATA paraphenylene	Environmentally hazardous substances, Solid, N.O.S. (N'N-diaryl-  diamine mixture. Synonyms: Diaryl PPD, DTPD, Mixed diaryl-pphenylenediamine)

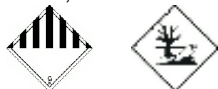
14.3 Transport hazard class(es)

DOT	Class: Not regulated.
ADR	



Class: 9 (M7) Miscellaneous dangerous substances and articles.  
 Label: 9

IMDG, IATA



Class: 9 Miscellaneous dangerous substances and articles.  
Label: 9

14.4 Packing group

DOT N/A  
ADR, IMDG, IATA III

14.5 Environmental hazards

Marine pollutant Yes. Symbol (fish and tree)  
Special marking (ADR) Symbol (fish and tree)  
Special marking (IATA) Symbol (fish and tree)

14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler) 90  
EMS Number F-A, S-F

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

Transport/Additional information

ADR  
Limited quantities (LQ) 5 kg  
Transport category 3  
Tunnel restriction code E

UN "Model Regulation" UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S. (N' N - diaryl-paraphenylene diamine mixture  
Synonyms: Diaryl PPD, DT PD, Mixed diaryl-pphenylenediamine), 9, III

**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 not 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 not listed.
Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.
Canadian Ingredient Disclosure list (limit 1%)	Substance is not listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been 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.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)