



**Safety Data Sheet**  
**according to the Regulation EC 1907/2006**  
**DUSANTOX® IPPD**

2.) 4-aminodiphenylamine

101-54-2	202-951-9	-	Xn, N	22,36,43, 50/53
3.5. The name and The Registration number:	N-isopropyl-N'-phenyl-p-phenylenediamine Dusantox® IPPD		Reg.No.:	

3.6. -

**4. FIRST AID MEASURES**

General: The dust is irritant.  
After inhalation: Remove from exposure, take exposed person to fresh air.  
After skin contact: *Pastille form*: wash skin with warm water and soap and treat with protective cream  
*Melt form*: After skin contact with melt medical treatment is required. Put on a clean clothes.  
After eye contact: *Pastille form*: Wash out the eye with plenty of water.  
*Melt form*: rinse with clean water, seek medical help, as working with a hot substance.  
After ingestion: Drink cca 0.5 l lukewarm water, do not induce vomiting.

**5. FIRE-FIGHTING MEASURES**

Suitable powder, medium and heavy foam, water fog, water.  
extinguishing media:  
Extinguishing media -  
which shall not be  
used for safety  
reasons  
Dangerous CO, CO<sub>2</sub>, NO<sub>x</sub>  
combustion products:  
Special protective insulating self-contained breathing apparatus, respirator wit suitable filter  
equipment for fire-  
fighters:

**6. ACCIDENTAL RELEASE MEASURES**

Personal *Pastille form*: Prevent of dusting. Remove spilled product in the way to avoid  
precautions: skin and eye contact.  
*Melt form*: Let the ran out Dusantox IPPD-melt stiffen and remove in a way  
to avoid contact with eyes or skin.  
Environmental Avoid contamination of surface and ground water.  
precautions:  
Methods for *Pastille form*: Sweep up the spilled product into the suitable bin, in case of  
cleaning-up: uselessness burn out in the incinerator.  
*Melt form*: After stiffening of the IPPD melt, dispose as spilled product.

**7. HANDLING AND STORAGE**



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- 7.1. Manipulation: *Pastille form:* Prevent of dust production.  
*Melt form:* Minimum temperature for handling is 55°C. At handling, ensure a ventilation and prevent any contact the product with skin and mucous membranes to minimum, do not expose to long-term effect of solar radiation.
- 7.2. Storage: *Pastille form:* Packed product is stored in dry covered place. Maximum storage temperature is 50 °C. Do not expose to direct solar radiation. Storage life in undamaged original packaging is 24 months under the observation of storage conditions.  
*Melt form:* Stored in closed storage tanks, tanks and containers equipped with a heating coil under the inert nitrogen atmosphere, at a temperature of 60 – 120 °C. Storage in closed steel barrels is also possible. After stiffening of the melt in barrels, heat the barrels with the melt again and pump the IPPD melt for further processing.
- 7.3. Specific use *Pastille form:* Despite of anti dust pastille form manipulate with product without of dust production.  
*Melt form:* As Dusantox IPPD is transported in melt form, handle as a hot substance.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Exposure limit values: average: not determined  
max.: not determined

8.2. Exposure control: Prevent of excess dusting, ensure a sufficient ventilation.

8.2.1 Occupational exposure controls:

Hand protection: Use suitable protective gloves.

Eye protection: Use suitable protective goggles.

Respiratory protection: *Pastille form:* keep the lowest possible level of the dust concentration in air, in case of dusting, use a respirator.  
*Melt form:* at handling with melt, avoid direct fumes inhalation (use a protective chemical respirator or protective mask).

Skin protection Put on suitable protective clothes.

8.2.2. Environmental exposure controls: prevent uncontrolled release to the environment

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information:

Appearance: Solid crystal substance in pastille or melt form

Colour: brown to purple

Odour: Slightly aromatic

9.2. Important health, safety and environmental information:

Boiling point: 366°C - decomposition

Melting point: 79,4 - 80,4 °C

Flash point: 173°C

Explosive limit (Dust) lower: 0,01 kg/m<sup>3</sup>  
upper: not determined

Density (20°C) 1185,5 kg/m<sup>3</sup>

Bulk density: Not determined

Molecular mass: 226,32 kg/kmol

Solubility: - in water : very low soluble

- soluble in: acetone, alcohols, aromatics



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Sensitive to friction: (method A.14 Directive 92/69/ECC)	Substance is not sensitive to friction
Sensitive to impact: (method A.14 Directive 92/69/ECC)	Substance is not sensitive to impact
Explosiveness: (method A.14 Directive 92/69/ECC)	Substance is not explosive.
Flammability: (method A.10 Directive 92/69/ECC)	Substance is not flammable.
9.3 Other information	-

#### 10. STABILITY AND REACTIVITY

10.1. Conditions to avoid	Thermally stable up to 300°C. Do not expose to high er temperature.
10.2. Materials to avoid:	None known
10.3. Hazardous decomposition products:	CO, CO <sub>2</sub> , NO <sub>x</sub> .

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	oral (rat) LD <sub>50</sub> = 573 mg/kg
	dermal (rabbit) LD <sub>50</sub> > 5 000 mg/kg
Irritation:	Eyes irritation (rabbit): slightly irritating, Skin irritation (rabbit): slightly irritant
Sensitization:	Repeated and long-lasting contact with skin may cause sensibilization.

#### 12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity:	Toxic for fish.
12.2. Mobility:	None known.
12.3. Persistence and degradability:	The substance is not readily biodegradable.
12.4. Bioaccumulative potential:	Low efficiency of biodegradation.
12.5. Results of PBT assessment:	vPT – the substance is classified as very persistent and toxic according to its properties.
12.6. Other adverse effects:	Despite of low solubility in water the substance is very toxic for aquatic organisms and may cause long-term adverse effects in the aquatic environment.

#### 13. DISPOSAL CONSIDERATIONS

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 stock-pile of dangerous waste according to official regulations.

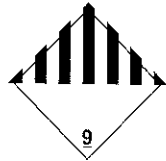
Product residues must not be washed away into water source and public drainage.

#### 14. TRANSPORT INFORMATION

Transport:	Dusantox IPPD is classified as dangerous good for transport according to ADR/RID/IMDG Code.
Identification No - UN No:	3077 form: <i>pastille, melting</i>

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Class of risk: 9  
Packing group: III  
Labels: 9  
Hazard identification number (Kemler): 90  
WGK: 2  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, solid or molten n.o.s. (phenylenediamines)  
TREM card No.: 90GM7 form: *pastille, melt*  
Packaging: Paper bags, stabilized on pallets or big-bags are transported by covered trucks. Molten product is transported by drums or heat-insulated tank containers.  
*pastille, melting*



*By marine transport*

*Molten- over 100<sup>0</sup> C*

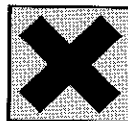


**TEMP. MAX 130°C**

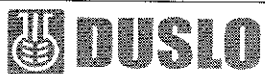
**15. REGULATORY INFORMATION**

Name: **DUSANTOX<sup>®</sup> IPPD**  
Classification and labeling according to: *Directives 67/548/EEC, 1999/45/EC*

Hazardous symbols.: **Xn- Harmful**                      **N- Dangerous for the environment**



R - phrases:            **R 22**    Harmful if swallowed  
                              **R 43**    May cause sensitization by skin contact.  
                              **R 50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
S - phrases:            **S 24**    Avoid contact with skin.  
                              **S 37**    Wear suitable gloves.



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- S 60** This material and/or its container must be disposed of as hazardous waste
- S 61** Avoid release to the environment. Refer to special instruction/Safety data sheet.

**16. OTHER INFORMATION**

Used information sources:

*Regulation EC 1907/2006*

*Directives 67/548/EEC, 1999/45/EC*

*Council Directive 94/55/EC, 96/49/EC*

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