

N-(1,3-DIMETHYLBUTYL)-N'-PHENYL-p-PHENYLENEDIAMINE

1635

October 2006

CAS No: 793-24-8

RTECS No: ST1100000

UN No: 3077

N-(4-Methyl-2-pentyl)-N'-phenyl-1,4-diaminobenzene
 1,4-Benzenediamine, N-(1,3-dimethylbutyl)-N'-phenyl-
 p-Phenylenediamine, N-(1,3-dimethylbutyl)-N'-phenyl-
 6PPD
 $C_{18}H_{24}N_2$
 Molecular mass: 268.4

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Water spray, powder.
EXPLOSION			
EXPOSURE		STRICT HYGIENE!	
Inhalation	Cough.	Local exhaust or breathing protection.	Fresh air, rest.
Skin	Redness.	Protective clothing. Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Redness.	Safety goggles	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL

Personal protection: P2 filter respirator for harmful particles. Protective gloves. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting.

PACKAGING & LABELLING

UN classification
 UN Hazard Class: 9
 UN Pack Group: III
GHS classification
 Signal: Warning
 Excl mark-Enviro
 Causes eye irritation
 Causes mild skin irritation
 May cause allergic skin reaction
 Very toxic to aquatic life

EMERGENCY RESPONSE

Transport Emergency Card: TEC (R)-90GM7-III

SAFE STORAGE

Provision to contain effluent from fire extinguishing. Store in an area without drain or sewer access. Separated from strong oxidants.

IPCS

International
 Programme on
 Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©
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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance

BROWN TO VIOLET SOLID IN VARIOUS FORMS. TURNS DARK BROWN ON EXPOSURE TO LIGHT

Chemical dangers

The substance decomposes on burning producing toxic fumes including nitrogen oxides. Reacts with strong oxidants.

Occupational exposure limits

TLV not established.
MAK not established.

Routes of exposure

The substance can be absorbed into the body by ingestion.

Inhalation risk

A harmful concentration of airborne particles can be reached quickly when dispersed, especially if powdered.

Effects of short-term exposure

The substance is mildly irritating to the eyes and the skin.

Effects of long-term or repeated exposure

Repeated or prolonged contact may cause skin sensitization.

PHYSICAL PROPERTIES

Boiling point: 370/C (calculated)
Melting point: 45-48/C
Density: 1.02 g/cm³
Solubility in water, g/100 ml at 20/C: 0.01
Vapour pressure, Pa at 25/C: negligible

Relative density of the vapour/air-mixture at 20/C (air = 1): 1.00
Flash point: 200/C c.c.
Auto-ignition temperature: about 500/C
Octanol/water partition coefficient as log Pow: 5.4

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. It is strongly advised that this substance does not enter the environment.

NOTES

Do NOT take working clothes home.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information