

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: DAB 4HCl

Synonyms: 3,3',4,4'-Biphenyltetramine tetrahydrochloride

Company Identification: PI Chemicals Ltd.

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Section 2 - Product Information

Catalog Number: PI-25820 CAS Number: 7411-49-6

MDL Number: MFCD00012969 *EC Number:* Not available

Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Powder

Molecular Weight: 360.11

Freezing/Melting Point: Not available **Boiling Point:** Not available Flash Point: Not available Autoignition Temperature: Not available Refractive Index (nD20): Not available Density: Not available Decomposition Temperature: Not available Solubility: Soluble in water

Section 4 - Hazards Identification

Eye: Causes eye irritation.



Skin: Causes skin irritation. Harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Section 5 - First Aid Measures

Eye: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin: Wash off with soap and plenty of water. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration.

Consult a physician.

Section 6 - Stability and Reactivity

Chemical Stability: Stable under recommended temperatures and pressures.

Materials to avoid: Not available.

Conditions to Avoid: Incompatible materials.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides(Nox), hydrogen chloride.

Hazardous Polymerization: Has not been reported.

Section 7 - Handling and Storage

Handling: Avoid all direct contact with material. Wash thoroughly after handling. Have safety

shower and eye wash available. Do not get in eyes, on skin, on clothing.

Storage: Suitable: Keep container closed. Keep away from heat, sparks, and open flame.

Store at 2-8°C

Section 8 - Personal Protection

Eyes: Wear appropriate protective eyeglasses.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms

are experienced.

Section 9 - Fire and Explosion Hazard Data

General Information: As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH

(approved or equivalent) and protective clothing to prevent contact with skin

and eyes.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 10 - Accidental Release Measures



General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 11 - Toxicological Information

RTECS#: CAS# 7411-49-6: Not available.

LD50/LC50: RTECS: Not available.

Carcinogenicity: DAB 4HCl

-Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Environmental information

Not available

Section 13 - Disposal Consideration

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Section 14 - Transport Information

IATA: UN 3316 9/PG 2. IMO: UN 3316 9/PG 2. RID/ADR: UN 3316 9/PG 2.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: F, T

Indication of Danger: Highly Flammable, Toxic

Risk Phrases:

R 23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R 36/38: Irritating to eyes and skin.

R 39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 7: Keep container tightly closed.

S 16: Keep away from sources of ignition - No smoking.

S 24: Avoid contact with skin.

S 33: Take precautionary measures against static discharges.

S 36/37: Wear suitable protective clothing and gloves.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show label



where possible).

WGK (Water Danger/Protection)

CAS# 7411-49-6: Not available.

Canada

CAS# 7411-49-6: Not available.

US Federal

TSCA

CAS# 7411-49-6 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: September 27, 2008 Update: November 12, 2010

The above information is believed to be accurate and represents the best knowledge available to us currently. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall PI Chemicals, be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if PI Chemicals has been advised of the possibility of such damages.