



TETRABUTYLAMMONIUM PHOSPHATE MONOBASIC 1M SOLUTION IN ETHANOL

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Tetrabutylammonium Phosphate Monobasic 1M Solution in Ethanol
Product Code : 896290

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

1.3 Details of the supplier of the safety data sheet

Company : Central Drug House (P) Ltd
7/28 Vardaan House
New Delhi -110002
INDIA
Telephone : +91 11 49404040
Email : care@cdhfinechemical.com

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquid (Category 2), H225
Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H225 Flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statement(s)

P280 Wear protective gloves, protective clothing, eye protection, face protection.
P210 Keep away from heat, sparks, open flame, hot surfaces. Do not smoke.
P303 + P361 + P353 IF ON SKIN (or hair): Soak any contaminated clothing immediately move out. Wash skin with water / shower

P264	Wash face, hands and exposed skin thoroughly after handling.
P337 + P313	If eye irritation persists: Get medical advice / attention
Supplemental Hazard Statements	none

2.3 Other hazards

The substance does not fulfill the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration
Tetrabutyl Ammonium Dihydrogen Phosphate			
CAS-No.	5574-97-0	Eye Dam 1; Acute Tox. 4(oral); Skin irrit. 2; STOT SE 3; Aquatic Chronic 4; H318, H302; H315, H335, H413	38 %
EC No.	226-947-1		
Ethanol			
CAS No	64-17-5	Flam. Liq. 3; Eye irrit 2; H225, H319	62 %
EC No	200-578-6		

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Remove to fresh air. In respiratory arrest with additional oxygen artificially ventilate. If symptoms occur, seek medical attention.

In case of skin contact

Wash off immediately with plenty of water for at least 15 minutes. In case of persistent Skin irritation Consult a physician.

In case of eye contact

Immediately rinse thoroughly with plenty of water for at least 15 minutes, even under the Eyelids. Get medical advice.

If swallowed

Rinse mouth with water and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Reasonably unpredictable. Inhalation of high vapor concentrations can Headache, dizziness, drowsiness, nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Do not use a heavy water stream.

Surrounding fires: Use water spray or fog for cooling exposed containers.

5.2 Special hazards arising from the substance or mixture

Containers may explode when heated. Vapors may form explosive mixtures with air. The vapors can become one. Move the ignition source from where flames can strike back. Extremely flammable.

Hazardous combustion products

Carbon monoxide, carbon dioxide (CO₂), nitrogen oxides (NO_x), phosphorus oxides.

5.3 Advice for firefighters

As with any fire, a self contained breathing apparatus is in pressure demand mode according to MSHA / NIOSH (approved or equivalent) and to wear full protective clothing.

5.4 Further information

No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For emergency responders: Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel: Evacuate unnecessary personnel.

6.2 Environmental precautions

Must not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Absorb with inert absorbent material. Keep in closed and suitable containers until disposal.

6.4 Reference to other sections

See section 8. Exposure controls/personal protection

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment. Do not get in the eyes, on the skin or on clothing. Do not take or inhale. Ensure adequate ventilation.

Hygiene measures

Handle with a good work hygiene and safety technology. Keep away from food, drink and animal feed. Do not eat, drink or smoke during use. Remove soiled clothing and wash before reuse. Before Take a break and wash your hands at the end of work.

7.2 Conditions for safe storage, including any incompatibilities

Area for flammable substances. Keep away from heat and ignition sources. Keep container tightly closed and dry, store cool and well-ventilated place.

7.3 Specific end use(s)

Use in laboratories

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

a) Appearance	Form: liquid Colour: Colourless
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	Soluble in water
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Incompatible products. Excessive heat. From open flames, hot surfaces and keep ignition sources away.

10.5 Incompatible materials

Strong oxidizing agents, Peroxides. Acids, Anhydrides, Acid chlorides, Ammonia.

10.6 Hazardous decomposition products

Hazardous decomposition products: Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Phosphorus oxides.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute inhalation toxicity**

No data available

Acute Dermal toxicity

No data available

Acute ingestion toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

No data available

SECTION 12: Ecological information**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substance does not fulfill the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6 Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information**14.1 UN number**

ADR/RID:- 1170

IMDG:- 1170

IATA:- 1170

14.2 UN proper shipping name

ADR/RID: ETHANOL

IMDG: ETHANOL

IATA: Ethanol

14.3 Transport hazard class(es)

ADR/RID:- 3

IMDG: - 3

IATA:- 3

14.4 Packaging group

ADR/RID:- II

IMDG:- II

IATA:- II

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information**Full text of H-Statements referred to under sections 2 and 3.**

H225 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.