

SHIVAM ADHESIVE PVT. LTD.

TECHNICAL DATA SHEET

MICROFOAM DNPT (Dinitrosopentamethylenetetramine)

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| PRODUCT | DNPT 60 % |
| CHEMICAL STRUCTURE | $(\text{NO})_2(\text{CH})_5 \text{N}_4$ CAS NUMBER {101-25-7} MOL WT. = 186 |
| GAS CONTENT | MAINLY NITROGEN & CARBON MONOXIDE |
| APPEARANCE | WHITE TO CRIMISH YELLOW FINE POWDER |
| ASH | 0.3% |
| pH (5% AQUEOUS SUSPENSION AT 25 C) | 7.0 – 9.0 |
| MOISTURE CONTENT | 0.2 % W/W MAX. |
| SOLUBILITY | SOLUBLE IN DMF & DMSO INSOLUBLE IN WATER & BENZENE |
| PARTICLE SIZE | 20 ± 2 MICRON |
| MESH SIZE (+ 325) BSS | 0.4 % W/W max. |
| DECOMPOSITION TEMP. (OPEN CAPILLARY TUBE METHOD) | 192 ± 2 °C |
| GAS EVALUATION | 200 ± 5 ml/gm @ S.T.P. |
| BULK DENSITY | 0.793 @ 27 °C |

APPLICATION

- ⊕ MICROFOAM DNPT is widely used in rubber processing as a chemical blowing agent providing economic means of producing sponges and expanded rubber. This product is widely used because of its low cost relative to other organic blowing agents.
- ⊕ MICROFOAM DNPT is widely used in the production of cellular rubber products.
- ⊕ MICROFOAM DNPT is partially used in some mixtures of fungicides for agriculture and green house use.
- ⊕ MICROFOAM DNPT used in the extrusions of profiles, sheets, pipes & wire coatings.
- ⊕ MICROFOAM DNPT used in for making cellular ceramics.
- ⊕ MICROFOAM DNPT used in for making Seals for crown corks and door sealing strips.

DOSAGE

- ⊕ 5 – 10 PHR depending on the polymers used & extent to expansion required.

PACKING

- ⊕ MICROFOAM DNPT is packed in 25 Kgs. HDPE woven bags/ UN approved corrugated paper cartons with a polythene liner inside.

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STORAGE

Its storage stability is good enough provided it is stored.

- ⓓ In a cool and dry place.
- ⓓ Away from localized sources of heat, direct sunlight steam pipes open flame and similar source of heat.
- ⓓ Away from strong alkalis & acids with which it reacts.

FLAMMABILITY

- ⓓ MICROFOAM DNPT is highly flammable and support combustion. Decomposition of MICROFOAM DNPT heating causes evolution of fumes resembling smoke. In case of Fire, use plenty of water, dry powder and concentrated Foam's.

TOXICITY

- ⓓ MICROFOAM DNPT is of low toxicity by skin contact and is mildly irritating to the eyes, its decomposition residues are also of low toxicity.

HANDLING

- ⓓ MICROFOAM DNPT is substantially free from handling problems, care should be taken to prevent its contact with skin & eyes. Avoid creating dusty conditions because of possibility of respiratory.

OUR STATEMENT

- ⓓ The statements made in the above documents are correct to the best of our knowledge and belief. SHIVAM ADHESIVE Pvt. Ltd., gives no warranty as to their accuracy and will not be responsible for any loss or expenses arising from use of these products

OUR OFFICE

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|--|---|-----------------|
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