Rhenofit®
CNT-3

Function
Depending on application carbon nanotubes (CNT) can be used as (electrically, thermally) conductive or reinforcing additive.

Product description
Rhenofit® CNT-3 is a water based dispersion of single wall carbon nanotubes (SWCNT) which can be used directly for production of formulations. The dispersion is highly homogeneous and stabilized and the applied process ensures non-destructive dispersing of carbon nanotubes under mild conditions.

Composition:
- 0.2 wt% single wall carbon nanotubes
- 0.4 wt% low molecular weight dispersing agent
- 99.4 wt% water

Appearance: Black dispersion
Odour: No odour
Compatibility: Can be mixed with liquid systems and appropriate polar organic solvents
pH value: Neutral to slightly basic (approximately pH = 7-9)
**Application**

Possible applications include but are not limited to latex, rubber, coatings and construction applications. The concentration of approximately 0.02 wt% SWCNT in solid substances might be sufficient. The mechanical properties generally remain unchanged.

Application of Rhenofit® CNT-3 provides for the best possible preservation of the original properties and colour effects. This also means that it is possible to produce transparent coatings capable to dissipate electrostatics.

**Storage behaviour**

The storage stability of Rhenofit® CNT-3 is guaranteed for 730 days in closed original containers at temperatures above 10 °C.

**Handling**

Please consult the MSDS for additional handling information.

Although Rhenofit® CNT-3 is a ready to use dispersion please be aware of the following points:

- Rhenofit® CNT-3 has to be stirred before use
- Dilute Rhenofit® CNT-3 with the pre-mixed formulation (order might be important)
- pH value can be adapted with alkaline or acidic substances if needed for the formulation
- Keep pH value in between 7-9 (under certain conditions pH values between 2-10 are also suitable)

Emission of nano particles is very unlikely if drying of the product is prevented. In the case of potential dust emission we recommend to consider the product as toxic substances cat. 1 with regard to inhalation (worst case) by performing a job safety analysis and the selection of PPE at the work place as the product is not yet fully tested. For waste disposal purposes we recommend to use air-tight bags as packaging material. The packaging should be kept strictly closed within the whole waste disposal process and ideally transferred directly to waste incineration.

The indicated data are not to be considered as specifications.

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Our technical advice - whether verbal, in writing or by way of trials - is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this, liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.