

# Nano Energizer - Typ 1 Smaller Engine by Nanotec International

## Nanomaterial description

1. **Material source or producer: Not reported**
2. **Manufacturing process: Not reported**
3. **Appearance: Not reported**
4. **Chemical composition: Ceramic nanoparticles 15 %**
5. **Physical form/shape: Not reported**
6. **Purity: Not reported**
7. **Size distribution: 20 nm**
8. **Solubility: Not reported**
9. **State of aggregation or agglomeration: Not reported**
10. **CAS number (if applicable): Not reported**

## Product description

Engine oil additive. In the MSDS, the manufacturers state that: "Nano Energizer (nano ceramic SOLUTION)" that contains "15 % ceramic nanoparticles".

Retailers state that: "nano Energizer bildar en nano-beläggning som är 20 ggr starkare än stål och värmetålig till 2500°C. nano Energizer består bl a av keramik-partiklar med storlek 20 nanometer. nano Energizer används på alla typer av fordon och oljesmorda maskiner, tex bilmotorer, servopumpar, båtar, kompressorer, industrimaskiner och automatiska eller manuella växellådor m.m. nano Energizer fungerar tillsammans med alla vanliga oljor." The location of the nanoelement in the products is believed to be suspended in liquid.

## APPENDIX 1: NanoRiskCat ● ● ● | ● Template

### Applications

#### Exposure potential for professional end-users

Given the nature of the product and the location of the nanoelement, exposure for the professional end-users is to be expected during use.

Hence we concluded that the overall Exposure potential for professional end-users is ●

#### Consumer exposure potential

Given the nature of the product and the location of the nanoelement, consumer exposure is to be expected during use.

Hence we concluded that the overall Exposure potential for consumers is ●

#### Environmental exposure potential

Given the nature of the product and the location of the nanoelement, environmental exposure is to be expected especially during and after use. The main outlets to the environment are expected after use either directly into the water recipients and/or indirectly via the Sewage Treatment Plants into water recipient and soil.

Hence we concluded that the overall Environmental exposure potential is ●