

## **B-12 Energy Booster produced by Nutrition By Nanotech, LLC**

### **Nanomaterial description**

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

### **Product description**

Vitamin supplement containing 16,666% vitamin B-12. The manufacturers state that B12 Energy Booster is 100% natural and stimulant free, however these statements have not been evaluated by the Food and Drug Administration and the product label notes that this product is not intended to diagnose, treat, cure or prevent disease (<http://media.mercola.com/assets/pdf/product-labels/vitaminB12-spray-label-v100.pdf>).

According to the Nano Info Portol the product contains "...Nano-Droplets" that "are designed to release the Vitamin within a steady, Time-Controlled manner..." ([http://china-nano.cn/product/detail\\_7647.jsp](http://china-nano.cn/product/detail_7647.jsp)), but is not clear what the droplets are made of.

### **Applications**

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

According to the product label adults should take 6 sprays daily, or as directed by your healthcare professional (<http://media.mercola.com/assets/pdf/product-labels/vitaminB12-spray-label-v100.pdf>).

### Exposure potential for professional end-users

Given the nature of the product, the location of the nanoelement as well as the described usage, exposure for professional end-users is to be expected. Oral exposure is the main route of exposure as the product is intended for consumption.

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

### Consumer exposure potential

Given the nature of the product, the location of the nanoelement as well as the described usage, consumer exposure is to be expected. Oral exposure is the main route of exposure as the product is intended for consumption.

Hence we concluded that the overall **Exposure potential for consumer is** ●

### Environmental exposure potential

Environmental exposure to the product is possible. Although the product is intended for consumption and the content of the droplets is intended to be taken up in the human body, it is highly likely that at least some of content of the droplets will be excreted and via the Sewage Treatment Plants go into water recipient and soil.

Hence we concluded that the overall **Environmental exposure potential is** ●