

1. company and product identification**BACTERCLINE MULTIUSO Surgical Medical Device Reg n° 19258 of the Health Ministry**

USE: Disinfectant

COMPANY: NANOMATERIALS AND MICRODEVICES TECHNOLOGY (NM TECH) New Zealand House 80 Haymarket, London sw1y4tq– England

EMERGENCY PHONE NUMBER: Centro Antiveleni-Ospedale di Niguarda (MI) 02/66101029

2. composition and information on the ingredients

Ingrediente	N° CAS/N° EINECS	Simbolo	Frase di rischio
Ethyl Alcohol (present in the product in the % of 12,52)	64-17-5/200-578-6	F	R11
Benzalkonium chloride (contenuto nel prodotto nella % dello 0,6)	68424-85-1/270-325-2	C; N	R22-R34-R50

3. risk identification

The danger identification is not necessary.

4. first aid measures

EYES: wash with a plenty of water for at least 10 minutes. Contact a doctor. SKIN: wash the affected area with a plenty of water. INGESTION: rinse mouth without swallowing, drink a plenty of water, do not provoke vomit and consult a doctor. INHALATION: if necessary, encourage breathing in open air.

5. accidental fire measuresEXTINGUISHING MEANS: water, atomized water, CO₂, powder, foam. FIRE PROTECTION MEASURES: a breathing apparatus and protection clothes should be at disposal of the staff responsible for fire extinguishing. FIRE MEASURES TO AVOID: none. RISKS DERIVING FROM COMBUSTION AND DECOMPOSITION PRODUCTS: combustion releases carbon monoxide, carbon dioxide, nitrogen oxide and other toxic fumes.**6. accidental leak measures**

CLEANING AND LEAK SOLVING METHODS: Little leakages can be washed away with abundant water. In case of big leakages, dispose properly. INDIVIDUAL CAUTIONS: see point 8.

7. handling and storage

HANDLING: ventilated rooms. STORAGE: well closed containers, in cool and dry place. Avoid high temperatures.

8. exposure check – individual protectionEXPOSURE MAXIMUM VALUES: TLV: 1000 ppm (ethyl alcohol); TLV(short time value): 10 mg/m³, 4 ml/m³ (nitric acid), TLV(long time value): 5,2 mg/m³, 2 ml/m³ TLV(nitric acid). PERSONAL PROTECTION: Eyes protection: protective glasses, in case of risk contact. *Respiratory protection*: anti acid protective mask, only in the case of distribution of the product through atomizer. *Skin*: none. *Hands*: gloves.**9. chemical and physical properties**

ASPECT: Liquid. COLOUR : White opalescent. SMELL: Slightly alcoholic. BOILING POINT: 90±2°C. FUSION POINT: -8±1°C. SPECIFIC WEIGHT: 0,97±0,03. pH: 2,04±0,02

10. stability e reactivity

So far no particular stability problems have been found in normal conditions. CONDITIONS TO AVOID: high temperatures. MATERIALS TO AVOID: the benzalkonium chloride and the ethyl alcohol can react with strong oxidizers. DANGEROUS DECOMPOSITION PRODUCTS: in case of right storage and handling there is no development of dangerous decomposition products.

11. toxicological informationTOXICITY FOR HUMAN BEINGS: *Contact with the eyes*: serious inflammation due to direct contact. *Contact with the skin*: possible irritation of variable damage according to the extension and the length of the contact. *Inhalation*: possible throat irritation. *Ingestion*: irritation of the digestive mucous membrane. The product contains the benzalkonium chloride as the active ingredient. The intoxication symptoms resulting from the ingestion of big quantities of quaternary ammonic compounds include dyspnoea, cyanosis, asphyxiation resulting from the respiratory muscles paralysis, depression of the central nervous system, hypo tension and coma. *Prolonged exposition*: the benzalkonium chloride has any oncogenic, mutagenic or teratogenic power. TOXICITY FOR ANIMALS: DL₅₀ (oral intense, rat): 445 mg/Kg (benzalkonium chloride); DL₅₀ (oral intense, rat): 7060 mg/Kg (ethyl alcohol); CL₅₀ (4h, rat): 0,2 mg/l (nitric acid).**12. ecological information**ECOTOXICITY: CL₅₀ (Leuciscus idus melanotus, 48 h): > 1000 mg/l (ethyl alcohol); CE₅₀ (Daphnia magna, 24 h): > 1000 mg/l (ethyl alcohol). MOBILITY: not available data. PERSISTENCY AND DEGRADABILITY: avoid to spread the product in the environment. COD: 2523 mgO₂/gr (benzalkonium chloride); BOD₅: 96 mgO₂/gr (benzalkonium chloride). Biodegradability: 94% (benzalkonium chloride). BIOCUMULATIVE POTENTIAL: not available data.

13. waste disposal consideration

PRODUCT DISPOSAL: when it is used in domestic environment, the product must be disposed as urban waste; if it is used in the health field, it must be disposed as sanitary not dangerous waste. PACKAGING DISPOSAL: according to the relevant regulations in force. OTHER INFORMATION: follow the national and local instruction.

14. transport information

Not applicable: the product is not dangerous for transport.

15. informazioni about regulations

This product is not obliged to have particular words according to the D.L. 14th March 2003 n. 65, since it is not dangerous.

16. other information

Source of data: literature, information by raw materials manufacturer, regulations in force about dangerous substances and products. It is advisable to contact the manufacturer for any further information.

All information contained in this safety sheet are based on our present knowledge and are provided according to the regulations of Decree 7th September 2002. It is duty and responsibility of the user to adopt all hygiene, safety and environment protection measures provided by the regulations in force. The information contained in this safety sheet refer to the product in the state and conditions in which it is supplied, and describe it considering its characteristics in relation to the safety requirements.

First issue	Rev	Of	Reason of revision
08.05.2006	02	30.03.2007	Correction point 2