

EC Safety Data Sheet

SANI MED Multi Vantocil

Version 9
Revision date 26.02.2020

Date of issue 15.09.2004

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Information

Trade name : Sani Med – Multi VANTOCIL IB
Company : Sani Safe
Telephone : +27 (21) 7014777
Fax : +27 (21) 7014778
Emergency telephone : +27 76 267 5523
Emergency fax :

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

A 1% aqueous solution of polymeric biguanide hydrochloride. Vantocil IB

Product Code : 06230

Hazardous components

Chemical name	CAS-No.	Symbol(s)	R-phrases	Concentration [%]
Polymeric Biguanide Hydrochloride	27083-27-8	Xn, N	R22 R51/53	1 %

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

This health hazard assessment is based on a consideration of the composition of this product.

- Low acute toxicity via oral or dermal routes
- PHMB is very poorly absorbed through human skin
- Low eye irritancy potential at typical use levels
- Low long-term toxicity
- Non-genotoxic in a range of studies
- Not teratogenic
- Does not represent a carcinogenic hazard to man
- No effects on reproduction in a two-generation study
- Non flammable

Harmful if swallowed in large quantities. Mildly toxic to aquatic organisms at current dosage.

At concentrations (0.5% - 2%) recommended for disinfectant purposes, no significant side effects occur.

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4. FIRST AID MEASURES

- Inhalation : No significant side effects. Vapour or aerosol, if generated, may cause mild irritation of the nose and respiratory tract. Remove patient from exposure. Obtain medical attention if ill effects occur.
- Skin contact : No side effects at current dosage levels if applied as per instructions.
- Eye contact : No significant side effects, possible mild irritant with prolonged exposure. Irrigate with eyewash solution or clean water. Obtain medical attention if required.
- Ingestion : Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Do not induce vomiting. Obtain medical attention if required.

Notes to physician

- Treatment : Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing media : water spray, foam, dry powder or CO₂.
- Specific hazards during fire fighting : Not classed as flammable. If involved in a fire, it may emit noxious and toxic fumes.
- Special protective equipment for fire-fighters : Full protective equipment including suitable respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ensure suitable personal protection during removal of spillages.
- Environmental precautions : Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
- Methods for cleaning up : Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area clean. Washings must be prevented from entering surface water drains.

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7. HANDLING AND STORAGE

Handling

Advice on safe handling : Do not swallow.
Avoid contact with eyes.

Storage

Requirements for storage : Keep container tightly closed.
areas and containers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

No Occupational Exposure Limit Assigned.

Engineering measures

Where suitable engineering controls are not fitted or are inadequate, wear suitable protective equipment.

Personal protection equipment

Respiratory protection : Not Applicable. Wear suitable respiratory protective equipment if disinfecting areas.

Hand protection : Not applicable.

Eye protection : Not applicable. Wear eye/face protection if disinfecting areas.

Skin and body protection : Not applicable. Wear suitable protective clothing if disinfecting areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

Colour : clear

Odour : Virtually odourless

Safety Data

Melting point : approx. 0 °C

Boiling point : approx. 102 °C

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Auto-ignition temperature	: Not applicable.
Flash point	: Boils without flashing
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: No data.
Relative Density	: approx.1.04 at 25 °C
Solubility (Quantitative)	: soluble in/with, Aliphatic alcohols, glycols, glycol ethers
Solubility (Quantitative)	: Insoluble in:, hydrocarbon solvents, aromatic solvents
Water solubility	: miscible
pH	: 6.0 – 7.0
Partition coeff.	: Not available.
Viscosity, dynamic	: approx.5 mPa.s at 25 °C
Additional Information	: Explosive properties No data. : Oxidizing properties No data.

10. STABILITY AND REACTIVITY

Conditions to avoid	: None known
Materials to avoid	: None known.
Hazardous decomposition products	: See 'Fire Fighting Measures'.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat Dose: > 2,000 mg/kg Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.
Acute inhalation toxicity	: Possible mild irritant with prolonged exposure.
Skin irritation	: No known irritation at recommended dosage.
Eye contact	: No known symptoms at recommended dosage levels, may cause eye irritation with prolonged exposure.
Sensitisation	: No known symptoms at recommended dosage levels.

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Delayed Or Chronic Toxicological Effects : Studies in animals have shown that PHMB does not represent a carcinogenic or teratogenic risk to man.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : There is no evidence of photodegradation in water.

Bioaccumulation : The product has low potential for bioaccumulation.

Transport between environm. compartments : Solubility
The product is soluble in water.

Transport between environm. compartments : Mobility
The product is predicted to have low mobility in soil.

Transport between environm. compartments : Mobility
The product is predicted to have low mobility in sediment.

Ecotoxicity effects

Acute and prolonged toxicity to fish : Mildly toxic to fish and aquatic invertebrates at current dosage levels.

Toxicity to bacteria : Effect on sludge digestion NOEC
0.5 % on dry solids

Toxicity to bacteria : Toxicity to bacteria IC10
Species: Sewage sludge organisms
Dose: 40 mg/l
Inhibition of respiration rate

Further information on ecology

Additional ecological information : Elimination
Cationic substances are regarded to be effectively removed in waste water treatment processes by complex formation and adsorption.

Additional ecological information : Mildly toxic to aquatic organisms at current dosage levels.
May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal method : Do not empty into drains.
Disposal should be in accordance with local, state or national legislation.

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14. TRANSPORT INFORMATION

Dangerous for Transport

UN No. 3082
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.

Hazardous components (Polymeric Biguanide Hydrochloride)

Road transport ADR/RID

Class: 9
Risks: (,III)

Maritime Transport IMDG

Class: 9
Risks: (,III)
Marine pollutant: Marine pollutant
EmS: F-A, S-F

Air Transport ICAO/IATA

Class: 9
Risks: (,III)

15. REGULATORY INFORMATION

Classification according to EEC directives

Hazardous components which must be listed on the label:

- Polymeric Biguanide Hydrochloride

Classification : IRRITANT AND DANGEROUS FOR THE ENVIRONMENT

Hazard labels : N Dangerous for the environment

R-phrases : R51/53 Mildly toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases : S60 This material must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Water contaminating class : WGK2
VwVwS Ann. 4

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16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 91/155/EEC and 1999/45/EC (and relevant amendments).

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