

SANITER 454

(EN)

Type of formulation

AL– Any other liquid

General directions for use

INSTRUCTIONS FOR USE

– The duration of the effect is dependent on the performance requirements of the customer for their preserved material and on the specific ingredients composition and pH of the preserved product.

– Always read the label or leaflet before use and follow all the instructions provided.

– Respect the conditions of use of the product (concentration, contact time, temperature, pH, etc.)

PRECAUTIONARY MEASURES DURING STORAGE AND TRANSPORT:

Keep in a well-ventilated place. The product as supplied may evolve gas (largely carbon dioxide) slowly. To prevent the buildup of pressure the product is packaged in specially vented containers, where necessary. Keep this product in the original container when not in use. Container must be stored and transported in an upright position to prevent spilling the contents through the vent, where fitted.

PARTICULARS OF LIKELY DIRECT OR INDIRECT EFFECTS, FIRST AID INSTRUCTIONS AND EMERGENCY MEASURES TO PROTECT THE ENVIRONMENT

– Skin contact: Remove contaminated clothing and shoes. Wash contaminated skin with water. Contact poison treatment specialist if symptoms occur.

– Eye contact: Immediately flush with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if easy to do. Continue to rinse with tepid water for at least 30 minutes.

Call 112/ambulance for medical assistance.

– Ingestion: Wash out mouth with water. Contact poison treatment specialist. Seek medical advice immediately if symptoms occur and/or large quantities have been ingested. Do not give fluids or induce vomiting.

– Inhalation (of spray mist): Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice immediately if symptoms occur and/or large quantities have been inhaled.

– In case of impaired consciousness place in recovery position and seek medical advice immediately.

– Keep the container or label available.

INSTRUCTIONS FOR SAFE DISPOSAL OF THE PRODUCT AND ITS PACKAGING

– Do not discharge unused product on the ground, into water courses, into pipes (Sink, toilets) nor down the drain.

– Dispose of unused product, its packaging and all other waste, in accordance with local regulations.

CONDITIONS OF STORAGE AND SHELF-LIFE OF THE PRODUCT UNDER NORMAL CONDITIONS OF STORAGE

Conditions for safe storage, including any incompatibilities: Keep in a dry, cool and well-ventilated place, in the original container.

Protect from frost

Shelf-life: 24 months

Protect from sunlight.

Recommendation: If a metal packaging is used, a varnish layer should be applied.

All products should be transported and stored in a vented room.

Product type PT06– Preservatives for products during storage (Preservatives)

RISK MITIGATION MEASURES

– During handling phases for products from Meta SPC 4 (mixing and loading), exposure to the product (corrosive and skin sensitizer products) has to be limited by use of PPE and application of technical and organisational RMM:

• Minimisation of manual phases (process automation);

• Use of a dosing device;

• Regular cleaning of equipment and work area;

• Avoidance of contact with contaminated tools and objects;

• Good standard of general ventilation;

• Training and management of staff on good practice.

– PPE is as follows:

• protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information);

• protective overall (at least type 3 or 4, EN 14605) which is impermeable for the biocidal product shall be worn (overall material to be specified by the authorisation holder within the product information);

• Eye protection;

• Substance/task appropriate respirator if ventilation is inadequate.

Preservation of fluids used in paper, textile and leather production– Curative treatment

TARGET ORGANISM(S)

Bacteria

FIELD(S) OF USE:

Indoor

Preservation of fluids used in paper, textile and leather production–

The biocidal product is used to reduce contamination by bacteria in textile additives (woven and non-woven, natural and synthetic including silicone emulsions) processing chemicals, all chemicals used in the leather process industry and paper additives (e.g. water pigment pastes, starch, natural gums, synthetic and natural latexes, sizing agents, coating binders, retention aids, dyes, fluorescent whitening agents, wet-strength resins) used in paper mills. The biocidal product inhibits the growth of microorganisms, which would otherwise lead to odours formation, viscosity alteration, discolouration of product and premature product failure.

APPLICATION METHOD(S)

Closed system

Manual and automated dosing.

The biocidal product should be dispensed to the end use fluid at a point to ensure adequate mixing using preferably automated metering pump or by manual addition.

APPLICATION RATE(S) AND FREQUENCY:

The biocidal product is added at single dose at time of manufacturing, storage or shipment.

Industrial uses: 1,5– 14,5 % C(M)IT/MIT in the biocidal products.

Professional uses Curative treatment:

16 to 30 mg/kg of C(M)IT/MIT (3:1) in final product

Contact time: 24 hours

For the biocidal product as supplied: for industrial use only.

USE-SPECIFIC INSTRUCTIONS FOR USE

– The preservative can be added at any stage of the production of the product.

– Earliest possible addition is recommended for optimal protection.

– Consult the manufacturer to determine the optimal dosage for the various products to be preserved.

– It is recommended that the optimum biocide concentration and compatibility with individual formulations is determined by means of laboratory tests.

– The duration and storage conditions of the preserved matrices may impact the efficacy of the product, microbiological tests should be conducted to determine the appropriate application rate without exceeding the maximum authorised application rate.

– The biocidal product shall be used for treatment of products (articles/mixtures) distributed only to professional users.

USE-SPECIFIC RISK MITIGATION MEASURES

– The maximal products concentration used for the preservation of fluids used in paper, textile and leather production being above the threshold value of 15 ppm, exposure has to be limited by use of PPE protecting skin and mucous membranes potentially exposed and application of technical and organisational RMM:

• Minimisation of manual phases;

• Use of a dosing device;

• Regular cleaning of equipment and work area;

• Avoidance of contact with contaminated tools and objects;

• Good standard of general ventilation;

• Training and management of staff on good practice.

Preservation of glues and adhesives

TARGET ORGANISM(S)

Bacteria, Yeasts

FIELD(S) OF USE:

Indoor

Preservation of glues and adhesives

The biocidal product is recommended to control the growth of bacteria and yeasts in water-soluble and water-dispersed synthetic and natural adhesives and tackifiers in storage containers before use

APPLICATION METHOD(S)

Closed system

Manual and automated application.

The biocidal product should be dispensed to the end use fluid at a point to ensure adequate mixing using preferably automated metering pump or by manual addition.

APPLICATION RATE(S) AND FREQUENCY:

Industrial uses: 1,5– 14,5 % C(M)IT/MIT in the biocidal products; Professional uses: 8–30 mg/kg C(M)IT/MIT (3:1) in final product. General public uses: 8–14,9 mg/kg C(M)IT/MIT (3:1) in final product.

The biocidal product is added at single dose at the time of manufacture, storage or shipment.

To ensure uniform distribution, slowly disperse using automated metering or manual addition, into product with agitation. Mix thoroughly until evenly dispersed throughout the product.

For the biocidal product as supplied: for industrial use only.

USE-SPECIFIC INSTRUCTIONS FOR USE

- The preservative can be added at any stage of the production of the product.
- Earliest possible addition is recommended for optimal protection.
- Consult the manufacturer to determine the optimal dosage for the various products to be preserved.
- It is recommended that the optimum biocide concentration and compatibility with individual formulations is determined by means of laboratory tests.
- The duration and storage conditions of the preserved matrices may impact the efficacy of the product, microbiological tests should be conducted to determine the appropriate application rate without exceeding the maximum authorised application rate.

The biocidal product shall be used for treatment of products (articles/mixtures) distributed to professional users and to the general public. For products distributed to the general public the maximal concentration used must be below the threshold value of 15 ppm.

USE-SPECIFIC RISK MITIGATION MEASURES

For professional users, the maximal products concentration used for the preservation of glues and adhesives being above the threshold value of 15 ppm, exposure has to be limited by use of PPE, protecting skin and mucous membranes potentially exposed, and application of technical and organisational RMM:

- Minimisation of manual phases;
- Use of a dosing device;
- Regular cleaning of equipment and work area;
- Good standard of general ventilation;
- Training and management of staff on good practice.

Preservation of mineral slurries

TARGET ORGANISM(S)

Bacteria

FIELD(S) OF USE:

Indoor

Preservation of mineral slurries

The biocidal product is recommended to control the growth of bacteria in aqueous-based inorganic/mineral slurries and inorganic pigments which are formulated into paints, coatings and paper.

APPLICATION METHOD(S)

Closed system

Manual and automated application.

The biocidal product should be dispensed as a tankside additive into the circulating use-dilution of the fluid, using a metering pump or by manual pouring, at a point to assure adequate mixing throughout the system.

APPLICATION RATE(S) AND FREQUENCY:

Industrial uses: 1,5– 14,5 % C(M)IT/MIT in the biocidal products; Professional uses: 10– 30 mg/kg of C(M)IT/MIT (3:1) in final product.

The biocidal product is added at single dose at the time of manufacture, storage or shipment.

For the biocidal product as supplied: for industrial use only.

USE-SPECIFIC INSTRUCTIONS FOR USE

- The preservative can be added at any stage of the production of the product.
- Earliest possible addition is recommended for optimal protection.
- Consult the manufacturer to determine the optimal dosage for the various products to be preserved.
- It is recommended that the optimum biocide concentration and compatibility with individual formulations is determined by means of laboratory tests.
- The duration and storage conditions of the preserved matrices may impact the efficacy of the product, microbiological tests should be conducted to determine the appropriate application rate without exceeding the maximum authorised application rate.
- The biocidal product shall be used for treatment of products (articles/mixtures) distributed only to professional users.

USE-SPECIFIC RISK MITIGATION MEASURES

The maximal products concentration used for the preservation of mineral slurries being above the threshold value of 15 ppm, exposure has to be limited by use of PPE, protecting skin and mucous membranes potentially exposed, and application of technical and organisational RMM:

- Minimisation of manual phases;
- Use of a dosing device;
- Regular cleaning of equipment and work area;
- Good standard of general ventilation;
- Training and management of staff on good practice.

Product type PT11– Preservatives for liquid-cooling and processing systems (Preservatives)

Preservation of liquids used in closed recirculating cooling systems

TARGET ORGANISM(S)

Bacteria (including Legionella pneumophila)

Yeasts

Fungi

FIELD(S) OF USE:

Indoor and outdoor

Preservation of liquids used in closed recirculating cooling systems (Closed recirculating cooling water systems comprise compressor cooling, air conditioning chilled water, boilers, engine jacket cooling, power supply cooling, and other industrial processes). Air conditioning systems and in air washer systems to preserve the sump water. Air washer systems are used extensively in textile factories and in the tobacco industry to scrub or clean the air and for fine control of temperature and humidity.

The biocidal product is used to control the growth of aerobes and anaerobes bacteria, yeast, fungi, and biofilm in the circulating water of closed systems

APPLICATION METHOD(S)

Closed system

Manual and automated dosing.

APPLICATION RATE(S) AND FREQUENCY:

Curative efficacy:– against bacteria (including L. pneumophila) at 5– 14,9 g C(M)IT/MIT (3:1) / m3 of water. Contact time: 24 hours– against biofilm: 14,9 g C(M)IT/MIT (3:1) / m3 of water. Contact time: 24 hours.– against fungi and yeasts at 1 – 3 g C(M)IT/MIT (3:1) / m3 of water. Contact time: 48 hours. Preventive efficacy:– against bacteria (including L. pneumophila) at 3 – 14,9 g C(M)IT/MIT (3:1) / m3 of water.– against biofilm (including L. pneumophila): 3 g C(M)IT/MIT (3:1) / m3 of water.

USE-SPECIFIC INSTRUCTIONS FOR USE

Microbiological tests to prove adequacy of preservation have to be undertaken by the user of C(M)IT/MIT products in order to determine the effective dose of the preservative for the specific matrix/location/system. If needed, consult the manufacturer of the preservative product.

USE-SPECIFIC RISK MITIGATION MEASURES

– Rinse the system (especially the dispensing pumps) with water prior to perform the cleaning step.

– During handling phases (mixing and loading) and cleaning of the dispensing pumps, exposure to the product (corrosive and skin sensitizer product) has to be limited by use of PPE and application of technical and organisational RMM:

- Minimisation of manual phases (process automation);
- Use of a dosing device;
- Regular cleaning of equipment and work area;
- Avoidance of contact with contaminated tools and objects;
- Good standard of general ventilation;
- Training and management of staff on good practice.

– PPE is as follows:

- protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information);
- protective coverall (at least type 3 or 4, EN 14605) which is impermeable for the biocidal product shall be worn (coverall material to be specified by the authorisation holder within the product information);
- Eye protection;
- Substance/task appropriate respirator if ventilation is inadequate.

Preservation of liquids used in small open recirculating cooling systems

TARGET ORGANISM(S)

Bacteria (including Legionella pneumophila)

Yeasts

Fungi

Algae (green algae and cyanobacteria)

FIELD(S) OF USE:

Indoor and outdoor

Preservation of liquids used in small open recirculating cooling systems (blowdown and recirculating flow rates, as well as total volume of water limited to 2 m3/h, and 100 m3/h and 300 m3 respectively)

Process and cooling water: Used to control the growth of bacteria, algae, fungi and biofilm

APPLICATION METHOD(S)

Open system

Manual and automated dosing.

APPLICATION RATE(S) AND FREQUENCY:

Curative treatment: – Against bacteria (including L. pneumophila) at 5 – 14,9 g C(M)IT/MIT (3:1) / m3 of water Contact time: 24 hours – against biofilm (including L. pneumophila) at 1,5– 14,9 g C(M)IT/MIT (3:1) / m3 of water Contact time: 48 hours. – against fungi and yeast at 1 – 14,9 g C(M)IT/MIT (3:1) / m3 of water Contact time: 48 hours. Preventive treatment: – against bacteria, green algae and cyanobacteria at

3 g C(M)IT/MIT (3:1) / m3 of water. – against biofilm (including *L. pneumophila*) at 3 g C(M)IT/MIT (3:1) / m3 of water.

USE-SPECIFIC INSTRUCTIONS FOR USE

Microbiological tests to prove adequacy of preservation have to be undertaken by the user of C(M)IT/MIT products in order to determine the effective dose of the preservative for the specific matrix/location/system. If needed, consult the manufacturer of the preservative product.

USE-SPECIFIC RISK MITIGATION MEASURES

– Rinse the system (especially the dispensing pumps) with water prior to perform the cleaning step.

– During handling phases (mixing and loading) and cleaning of the dispensing pumps, exposure to the product (corrosive and skin sensitizer product) has to be limited by use of PPE and application of technical and organisational RMM:

- Minimisation of manual phases (process automation);
- Use of a dosing device;
- Regular cleaning of equipment and work area;
- Avoidance of contact with contaminated tools and objects;
- Good standard of general ventilation;
- Training and management of staff on good practice.

– PPE is as follows:

- protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information);
- protective coverall (at least type 3 or 4, EN 14605) which is impermeable for the biocidal product shall be worn (coverall material to be specified by the authorisation holder within the product information);
- Eye protection;
- Substance/task appropriate respirator if ventilation is inadequate.

– Cooling fluid must not enter surface water directly. Use product only in premises that are connected to a STP.

– The product can only be used when the cooling towers are equipped with drift eliminators that reduce the drift at least by 99%.

Preservation of recirculating fluids used in textile and fiber processing, leather processing, photo-processing and fountain solution systems

TARGET ORGANISM(S)

Bacteria (including *Legionella pneumophila*)

FIELD(S) OF USE:

Indoor

Preservation of recirculating fluids used in textile, fiber processing, leather processing, photo-processing and fountain solution systems

C(M)IT/MIT (3:1) biocidal products are used for the preservation of textile and spinning fluids, photo processing solutions, leather process (e.g. washing and soaking treatment stages) and printing fountain solutions to control the integrity of recirculating fluid by reducing microbial contamination in the bulk solution.

APPLICATION METHOD(S)

Manual and automated dosing.

The preservation of all end-products is performed in most cases highly automated by industrial users

The biocidal product is added to the central sump, basin or recirculating lines in an area with adequate mixing.

APPLICATION RATE(S) AND FREQUENCY:

Curative treatment: Against bacteria at 16–30 mg C(M)IT/MIT (3:1) per L of fluid
Contact time 5 days

USE-SPECIFIC INSTRUCTIONS FOR USE

Microbiological tests to prove adequacy of preservation have to be undertaken by the user of C(M)IT/MIT products in order to determine the effective dose of the preservative for the specific matrix/location/system. If needed, consult the manufacturer of the preservative product.

USE-SPECIFIC RISK MITIGATION MEASURES

– Rinse the system (especially the dispensing pumps) with water prior to perform the cleaning step.

– During handling phases (mixing and loading) and cleaning of the dispensing pumps, exposure to the product (corrosive and skin sensitizer product) has to be limited by use of PPE and application of technical and organisational RMM:

- Minimisation of manual phases (process automation);
- Use of a dosing device;
- Regular cleaning of equipment and work area;
- Avoidance of contact with contaminated tools and objects;
- Good standard of general ventilation;
- Training and management of staff on good practice.

– PPE is as follows:

- protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information);
- protective coverall (at least type 3 or 4, EN 14605) which is impermeable for the biocidal product shall be worn (coverall material to be specified by the authorisation holder within the product information);

• Eye protection;

• Substance/task appropriate respirator if ventilation is inadequate.

– Liquids used in textile and fiber processing fluids must not enter surface water directly. Use product only in premises that are connected to a STP.

– Recirculating liquids in photoprocessing systems and fountain solution systems must not enter surface water directly. Use product only in premises that are connected to a STP.

Product type PT12– Slimicides (Preservatives)

RISK MITIGATION MEASURES

– Rinse the system (especially the dispensing pumps) with water prior to perform the cleaning step.

– During handling phases (mixing and loading) and cleaning of the dispensing pumps, exposure to the product (corrosive and skin sensitizer product) has to be limited by use of PPE and application of technical and organisational RMM:

- Minimisation of manual phases (process automation);
- Use of a dosing device;
- Regular cleaning of equipment and work area;
- Avoidance of contact with contaminated tools and objects;
- Good standard of general ventilation;
- Training and management of staff on good practice.

– PPE is as follows:

- protective chemical resistant gloves (glove material to be specified by the authorisation holder within the product information);
- protective coverall (at least type 3 or 4, EN 14605) which is impermeable for the biocidal product shall be worn (coverall material to be specified by the authorisation holder within the product information);
- Eye protection;
- Substance/task appropriate respirator if ventilation is inadequate.

Slimicide treatment in the wet-end stage of paper manufacturing process

TARGET ORGANISM(S)

Bacteria, Yeasts, Fungi

FIELD(S) OF USE:

Indoor

Slimicide treatment in the wet-end stage of the paper manufacturing process (paper mills, wet-end stage (water circuits), and paper mills process system).

APPLICATION METHOD(S)

Closed system

Manual and automated dosing.

APPLICATION RATE(S) AND FREQUENCY:

Curative treatment: 10 to 14,9 g C(M)IT/MIT (3:1) / m3 of water to be treated
Contact time: 24 hours

Preventive treatment: 5 g C(M)IT/MIT (3:1) / m3 of water to be treated.

USE-SPECIFIC INSTRUCTIONS FOR USE

Microbiological tests to prove adequacy of preservation have to be undertaken by the user of C(M)IT/MIT products in order to determine the effective dose of the preservative for the specific matrix/location/system. If needed, consult the manufacturer of the preservative product.

USE-SPECIFIC RISK MITIGATION MEASURES

– The use of C(M)IT/MIT (3:1) containing products for the slimicide treatment in the wet-end stage of the paper manufacturing process is restricted to (a) curative treatments in plants connected to a slimicide-free water from a pulp mill and only for the treatment of the short circulation of the paper mill; and (b) preventive treatments, and, for both cases, only if the factory's waste water is purified in an on-site (full) industrial sewage treatment plant with a minimal capacity of 5000 m³ per day as described in the Industrial Emission Directive 2010/75/EU (Best Available Techniques for the production of pulp, paper and board) and if a dilution of at least 200 times in surface water is achieved after the industrial sewage treatment plant.

Preventive treatment (biofouling control) online and after cleaning in place for industrial RO/NF membranes

TARGET ORGANISM(S)

Bacteria

FIELD(S) OF USE:

Indoor

Preventive treatment (biofouling control) online and after cleaning in place for industrial RO/NF membranes

APPLICATION METHOD(S)

Closed system

Manual and automated dosing.

Biocidal product application on a routine basis will prevent biofilm growth on Reverse Osmosis or Nano Filtration membrane surfaces, feed spacer, filter media and pipework. The biocidal product should be dispensed to the feed water at a point to assure adequate mixing throughout the system.

APPLICATION RATE(S) AND FREQUENCY:

Preventive treatment: 5 g C(M)IT/MIT (3:1) per m3 of fluid

USE-SPECIFIC INSTRUCTIONS FOR USE

Microbiological tests to prove adequacy of preservation have to be undertaken by the user of C(M)IT/MIT products in order to determine the effective dose of the preservative for the specific matrix/location/system. If needed, consult the manufacturer of the preservative product.

USE-SPECIFIC RISK MITIGATION MEASURES

– Use product only in premises that are connected to a STP.