

# **DEZIPAN**

## **DISINFECTANT CONCENTRATE**

### **Description of disinfectant concentrate DEZIPAN:**

Disinfectant concentrate **DEZIPAN** is a transparent liquid of yellowish or orange color with slight specific smell or with the smell of applied perfume. Opalescence and slight sediment is admitted. Concentrate **DEZIPAN** good deodorizing properties, does not spoil the treated items, does not bleach on colored fabrics, does not damage products made of various metals, including carbon steel and alloys, does not shore up organic contaminations, does not cause corrosion of metals.

The product is completely biodegradable and environmentally friendly.

The product retains its properties after freezing and subsequent thawing.

### **Working solutions are non-combustible, fire and explosion proof.**

**DEZIPAN** does not require rotation, as it is a multicomponent formulation consisting of three main active substances belonging to various chemical groups. In this case, the possibility of resistant microorganisms is extremely small.

Prolonged antimicrobial effect is observed on the treated surface for several days after treatment.

### **Composition:**

**DEZIPAN** disinfectant concentrate is a transparent liquid of yellowish or orange color with slight specific smell or with the smell of applied perfume. Opalescence and slight sediment is admitted. Main material of the product is a synergistic surfactant mixture combining dodecyldipropylene triamine, didecyldimethylammonium chloride and tetraazatricyclododecane (totally 50%), with the addition of distilled or demineralised water and corrosion inhibitors, which prevent corrosion of treatment tools made of metal and alloy metals, including carbon steel and alloys, titanium alloys, nonferrous alloy (brass, copper). Potential of hydrogen ion (pH) of 1- % water solution of disinfectant at 20°C is  $7.5 \pm 0.5$ .

### **DEZIPAN disinfectant potency**

Disinfectant concentrate **DEZIPAN** shows bactericidal effect. It is effective against gram-negative bacteria, gram-positive bacteria (including tuberculosis microbacteria), microgerms, viruses, including HIV, influenza, enteral and parenteral hepatitis (hepatitis A, B and C), polio, adenoviruses, SARS viruses, highly pathogenic avian influenza H5N1, swine flu, human flu, herpes, etc. It is affective against pathogenic fungi candida, trichophyton and mold fungi, causative agents of cross infection, anaerobic infections. The product has egg-killing properties against pathogens of parasitic diseases (cysts and oocysts of protozoa, eggs and helminth larvae, pinworms).

### **DEZIPAN disinfectant toxicity:**

As for acute toxicity disinfectant **DEZIPAN** according to GOST 12.1.007-76 belongs to hazard category 3, i.e. moderately hazardous substance at intragastric intake (acute toxicity DL50); at contact with skin disinfectant **DEZIPAN** is considered as hazard category 4 substance i.e. low-hazard substance; at inhaling as fumes by the volatile grade(C20) disinfectant **DEZIPAN** is also

low-hazard substance. When introduced into the peritoneum the product belongs to class 4 i.e. low toxic substances when according to the classification of K.K.Sidorov.

Disinfectant has a moderate irritant effect on the skin and a pronounced effect on the mucous membranes of the eye. The product does not have skin-resorptive and sensitizing effect.

Working solutions of disinfectant concentrate **DEZIPAN** in the concentrations up to 3% do not have a sensitizing and irritating effect on the skin. In the form of an aerosol, working solutions may have an irritating effect on the mucous membranes of the eyes and respiratory tract.

MPC of surfactants dodecyldipropylene triamine and didecyldimethylammonium chloride in the air of the working area is 1 mg/m<sup>3</sup>.

MPC of tetraazatricyclo-dodecane in the air of the working area is 2 mg/m<sup>3</sup>, aerosol.

Processing of any objects in the rooms by means of wiping, dipping and soaking in the solutions of **DEZIPAN** can be carried out in the presence of patients.

Processing of any objects with the methods of wiping, immersing and soaking in rooms with solutions of “Desipan” can be carried out in the presence of patients.

When processing by irrigation, it is necessary to wear personal protective equipment for the skin, eyes and respiratory organs.

### **Purpose of application DEZIPAN disinfectant:**

- disinfection of any surfaces in rooms, offices, premises, placements, disinfection of cabinetry, lounge furniture and other types of furniture, floor coverings and seat-cover fabrics, furnishings, surfaces of apparatuses, appliances, sanitary equipment, acrylic bathtubs, linen, dishware (including serviceware, labware, etc.), items for washing dishware, rubber and polypropylene mats, cleaning equipment and materials, toys, sports equipment, patient care items, personal hygiene items in hospitals and health centers (including clinical, diagnostic and bacteriological, virological laboratories, PCR and other laboratories, departments of neonatology, IVF, maternity hospital, wards of newborns, children's wards, etc.), in children care and municipal institutions, in public unity service, in everyday life; in infection affected areas - during ongoing, final and preventive disinfection;
- disinfection of medical waste (of class A, class B and class C): single-use medical products, devices, dressings, disposable underwear, etc. before their disposal in healthcare facilities, as well as plate waste and other types of waste (waste liquids, blood, serum, flushing water (including endoscopic flushing water), patient discharge (sputum, urine, feces, vomit, etc.), diagnostic material, etc.), wastes in microbiological, virological, mycological, parasitological, molecular genetic laboratories, dishware and surfaces from under the patient's discharge), vaccines, including BCG vaccine in cases when the individual packaging is damaged and expired (according to Methodological Instructive Regulations 3.3.2.1761-03 *Medical immunobiological drugs. Disposal procedure for unusable vaccines and toxoids.*);
- disinfection of blood in clots, donated blood and expired blood products, medical leeches after hirudotherapy;
- disinfection of articulators, dental impressions of alginate, silicone materials, polyester resin, denture blanks of metals, ceramics, plastics and other materials, suction systems of dental units, saliva ejectors and spittoon;
- manual disinfection of medical devices (including surgical and dental instruments (including rotating ones like carbide burrs, dental handpieces, tips, diamond bit, root canal reamers, Lentulo spiral, fraises, etc.), rigid and flexible endoscopes, tools for endoscopes)
- manual disinfection and mechanized (with ultrasonic unit of any type) disinfection of medical devices (including surgical and dental instruments (including rotating ones like

carbide burrs, dental handpieces, tips, diamond bit, root canal reamers, Lentulo spiral, fraises, etc.), rigid and flexible endoscopes, tools for endoscopes);

- preliminary cleaning of endoscopes after their use;
- disinfection combined with pre-sterilization or final cleaning (before high-level disinfection) of flexible and rigid endoscopes manually and by mechanized methods (in specialized high-level disinfection units manufactured in Russia and abroad);
- manual and mechanized (with ultrasonic unit of any type ) pre-sterilization cleaning not combined with disinfection of medical devices (including tools for endoscopes, surgical and dental instruments (including rotating tools and dental product)
- manual and mechanized (with high-level disinfection units) pre-sterilization cleaning not combined with disinfection of rigid and flexible endoscopes;
- final cleaning of endoscopes before high-level disinfection by manual and mechanized methods (with high-level disinfection units manufactured in Russia and abroad);
- disinfection of incubators and accessories to them, components of anesthesia-respiratory equipment, anesthesiology equipment, ultrasound sensors;
- disinfection of ambulance and food transportation vehicles;
- disinfection of cabins and compartments of civil aircraft;
- disinfection in public transport means and in subways;
- disinfection of shoes made of leather, fabric, enameled cloth, rubber, plastic and other polymeric materials in order to prevent infections of fungal etiology (dermatophytosis);
- performing of general cleanups in medical and preventive, children's preschool, school and other general educational and sanitary, convalescence and health-improving facilities, at communal facilities, in detention centers and other penitentiary facilities;
- mold control;
- air disinfection by spraying at various facilities, preventive disinfection of ventilation and air conditioning systems (household air conditioners, split systems, multi-zone split systems, roof air conditioners, ventilation filters, air ducts, etc.);
- disinfection and cleaning of premises, rooms and equipment (including equipment in contact with food) in catering, food trade, consumer markets, utilities, hotels, dormitories, swimming pools, water parks, saunas, crowded places;
- disinfection and cleaning of premises and equipment, tools, work clothes, the air of hairdressing salons, massage parlors and beauty shops, beauty salons, laundries, clubs, sanitary inspection rooms and other public services;
- disinfection and washing of premises and equipment at pharmaceutical and biotechnological industry enterprises for the production of non-sterile medicines in rooms of cleanliness classes C and D;
- disinfection and washing of rooms and equipment in the Armed Forces and Rescue Services;
- disinfection of surfaces, objects and discharges in morgues and pathological anatomical services, forensic medical institutions, columbaria, crematoria, funeral homes and bureaus, other buildings and facilities providing funeral services, as well as for disinfection of catafalques and hearses;
- disinfection, cleaning, washing and deodorization of garbage collection equipment, garbage collectors and refuse trucks, garbage bins and garbage bins, refuse chute termination rooms, etc.;

- disinfection of contents of storage tanks of autonomous toilets which do not have a drain to the sewer, as well as surfaces in the cabins of autonomous toilets and dry closets;
- disinfectant pans;
- disinfection (disinvasion) of soil, household items, toys, premises, laboratory glassware and laboratory equipment contaminated with pathogens of parasitic diseases (protozoa cysts and oocysts, eggs and larvae of helminths, pinworms).