

## A REVIEW ON NATURAL FLOOR CLEANER AND INSECT REPELLANT

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### ABSTRACT

Most of the commercial floor cleansers available today, contain toxins and poisons that are hazardous to human health. Warning labels on these products themselves state that the contents are poisonous or dangerous, as they are chemical in origin. Even when stored carefully, toxic floor cleansers can leak out of bottles or be inhaled during use, especially dangerous in households with children. These toxic products seep into the environment, contaminating water supplies. No doubt these cleaning products containing disinfectants can kill germs immediately but may also contribute to their stronger resistance in the long run. baking soda and vinegar baking soda, vinegar and essential oils, borax and water castile soap and water can be used for floor

cleaners. But ingredients such as neem, cow urine, citronella, aloe vera, eucalyptus oil etc. from natural sources may make enhanced antibacterial as well as insect repellent properties. The ingredients listed are naturally available and non toxic, non synthetic derivatives.

**KEYWORDS:** disinfectant, corrosive, insect repellent, non toxic, hazardous, septic.

### MANUSCRIPT

#### INTRODUCTION

The objective of natural natural floor cleaner is to – tiles cleaning. Gau mutra (cow urine) added is 100% indian environment friendly non alcoholic non violent (its not killing germs but takes away) no hazardous chemicals skin friendly kids safe best worshipping room or “puja “room and meditation room as gau mutra added best for jain’s and vaishnavas non-toxic biodegradable, ph, balanced septic free. Disinfectants market has grown in value terms

to an estimated Rs. 6 bn a year, if multi-purpose detergents are excluded. In volume terms, the market is of the order of around 9600 tpa of which more than 60% is represented by phenyls. The branded MNC-oriented market is placed at over Rs. 2750 mn and is growing at about 20%. Disinfectant is a general term used to describe a broad class of chemicals employed to destroy harmful bacteria, fungi and other microorganisms. They are part of many of the products like household cleaners, tooth pastes, shaving creams. Floor cleaning market is the second largest product category of the toiletries and household cleansing market of India. The floor cleaning market has been further segmented into dish wash bars, liquid and powder in which dish wash bars commanded a predominant share.<sup>[3]</sup>

***Insect repellents*** help prevent and control the outbreak of insect-borne (and other arthropod-borne) diseases such as malaria, Lyme disease, dengue fever, bubonic plague, river blindness and West Nile fever. Pest animals commonly serving as vectors for disease include insects such as flea, fly, and mosquito; and the arachnid tick.<sup>[1]</sup>

### **Advantages**

- 1) Herbal cleaners are non toxic to human and pets.
- 2) These cleaners are non-irritating to human skin, unlike phenol and creosote based black disinfectants.
- 3) Smell is very pleasant which lingers after use.
- 4) Do not discolor surfaces.
- 5) Pine oil is obtained from pine tree therefore the cleaner are herbal and environment friendly.
- 6) Pine oil has germicidal properties, therefore it is used in hospitals and clinics and pet disinfection.
- 7) Applicable on a variety of surfaces like glass, metal. Porcelain, enamel, ceramic, plastic, linoleum, stone and concrete etc.
- 8) It imparts shine to hard surfaces after cleaning.

### **MANUFACTURING PROCESS**

Firstly oil phases like Caster Oil has to be taken in a container, warm it gently. Similarly in another container NaOH (Caustic Soda) and dissolve it in distilled water. Now caustic soda is tickle down into warm mixture of volatile oils by stirring gently. It would take 15-20 minutes. Now stand for 45 minutes and maintain the temperature of solution at 80-90o C. Now add with constant stirring, other natural ingredients like aloe vera, neem, sikakai, cow urine etc

into warm mix of previous one. Now add desired quantity of distilled water and warm the mixture with stirring up to 90-100o C for 15-20 minutes. Cool the mixture and it is ready for packing. Different Raw Materials required for different Grades of herbal Phenyl.

### INGREDIENTS FOR PREPARATION OF HERBAL PHENYL

There are numbers of ingredients listed can be used as natural herbal floor cleaners among those most popular ingredients are discussed below with their biological sources and properties. Distilled white vinegar (which contains acetic acid) has antifungal and antimicrobial properties and can eliminate mineral deposits from sink and bathtub fixtures, as well as cookware.

- Acidic lemon juice kills germs on countertops, cutting boards, and more. Baking soda deodorizes and dissolves grease and dirt. Mixed with other ingredients, it makes a gentle but effective scrub.
- All-natural castile soap, made for centuries with olive oil, not only washes dirt and grease from your body, but also from household surfaces and laundry.

Many herbs have potent disinfectant properties, too. Basil, bay, cardamom, clove, coriander, eucalyptus, ginger, hyssop, lavender, lemongrass, oregano, peppermint, rose geranium, rosemary, sage, spearmint, and thyme are cleaning powerhouses. All contain a multitude of plant chemicals that possess antibacterial, antifungal, antiseptic, and antiviral actions.<sup>[2]</sup>

### COW URINE

It was an antibiotic and cow urine distillate mixture. The cow urine was claimed to be serving as a bioenhancer, enhancing anti-microbial activity of antibiotic and antifungal agents.<sup>[10][11][12]</sup> its anticancer effect is due to uric acid's antioxidant property and allantoin; immunity is improved by swarn kshar; and wound healing is promoted by allantoin.<sup>[12 A]</sup> Cow urine has been granted US Patents (No. 6,896,907 and 6,410,059) for its medicinal properties.<sup>[4]</sup>

### NEEM

*Azadirachta indica*, commonly known as **neem**, **nimtree** or **Indian lilac**,<sup>[5]</sup> is a tree in the mahogany family Meliaceae. It is one of two species in the genus *Azadirachta*, and is native to the Indian subcontinent, i.e. India, Nepal, Pakistan, Bangladesh, Sri Lanka, and Maldives. It is typically grown in tropical and semi-tropical regions. Neem trees also

grow in islands located in the southern part of Iran. Its fruits and seeds are the source of neem oil. Products made from neem trees have been used in India for over two millennia for their medicinal properties.<sup>[9]</sup> Neem products are believed by Siddha and Ayurvedic practitioners to be Anthelmintic, antifungal, antidiabetic, antibacterial, antiviral, contraceptive, and sedative.<sup>[12]</sup> It is considered a major component in siddha medicine and Ayurvedic and Unani medicine and is particularly prescribed for skin diseases.

Neem oil insecticide works as a systemic in many plants when applied as a soil drench. This means it is absorbed by the plant and distributed throughout the tissue. Once the product is in the plant's vascular system, insects intake it during feeding. The compound causes insects to reduce or cease feeding, can prevent larvae from maturing, reduces or interrupts mating behavior and, in some cases, the oil coats the breathing holes of insects and kills them. It is a useful repellent for mites and used to manage over 200 other species of chewing or sucking insects according to product information, including: Aphids Mealybugs Scale Whiteflies.<sup>[5]</sup>

Neem oil fungicide Neem oil fungicide is useful against fungi, mildews and rusts when applied in a 1 percent solution. It is also deemed helpful for other kinds of issues such as: Root rot Black spot Sooty mold.<sup>[6]</sup>

## **CAMPHOR**

In a Hindu household, camphor or karpoor is a part of every puja, aarti and house warming. While the flame is believed to help drive away evil forces and negative energies, camphor has many other benefits. Here's how you can use it to purify your home.<sup>[7]</sup>

### **Kills germs**

Camphor helps kill germs, and it can be excellent to purify the air in the atmosphere. So, burning camphor or karpoor every day can be a good way to keep your house germ free.<sup>[8]</sup>

### **Keeps the house odour free**

Artificial room fresheners contain a chemical called phthalates (one amongst other harmful chemicals), that are believed to be the cause of health problems in children and pregnant women. Instead of using various artificial and chemical-laden air fresheners, you can use camphor to get rid of odour from home.<sup>[9]</sup> Burn the camphor in a lamp in the centre of a room at a place where its fragrant smell can reach all corners of the room.

### Acts as an insecticide

Camphor is an excellent natural insecticide. So the next time you see ants, bed bugs and mosquitoes at home you must use camphor.

Ants: Dissolve a little camphor in water and sprinkle and sprinkle over the area and you will see the ants vanish immediately.<sup>[10]</sup>

Bed bugs: You can also use camphor to treat bed bugs effectively. Wash your bed sheets and air the mattresses in the sun. Then take a large chunk of camphor, put it in a muslin cloth and place it in between the mattresses. Doing this will drive away any bed bugs.<sup>[11]</sup>

Mosquitoes: Camphor can be extremely useful to get rid of mosquitoes in the house. Made from the extract of a tree, camphor has the longest mosquito repellent activity when compared to other natural products.<sup>[12]</sup> Just light camphor in a room and shut all the windows and doors. Leave the room this way for about fifteen to twenty minutes for a mosquito-free environment. You can also grow plants that are natural mosquito repellents.

### CONCLUSION

Most of the commercial floor cleansers available today, contain toxins and poisons that are hazardous to human health. Warning labels on these products themselves state that the contents are poisonous or dangerous, as they are chemical in origin. Even when stored carefully, toxic floor cleansers can leak out of bottles or be inhaled during use, especially dangerous in households with children. These toxic products seep into the environment, contaminating water supplies. No doubt these cleaning products containing disinfectants can kill germs immediately but may also contribute to their stronger resistance in the long run. baking soda and vinegar baking soda, vinegar and essential oils, borax and water castile soap and water can be used for floor cleaners. But ingredients such as neem, cow urine, citronella, aloe vera, eucalyptus oil etc. from natural sources may make enhanced antibacterial as well as insect repellent properties. The ingredients listed are naturally available and non toxic, non synthetic derivatives.

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