

# Case Study: Day Care Facility Safer Cleaning Supplies

## Nanyphina Guarderia

“I decided to participate in the program because I am interested in the environment, I work with small children and they are more sensitive. I would normally buy things based on the cost or the efficiency it gave me. In other words, if it was cheaper but worked well then I bought it, but now with the program I have the opportunity to save, be efficient and take care of the environment where I live.”

- Delfina Vazquez, Child Care Provider

### Business Profile:

**Name:** Nanyphina Guarderia

**Business Type:** Childcare Facility

**Location:** Sanger, CA

**Enrollment Capacity:** 14

**Number of Children:** 12

**Age Range:** 1 - 13

**Daily Meals Provided:**

2 snacks, 2 meals

**Number of employees:** 3

**Indoor square footage:** 500 sq ft

**Outdoor square footage:**

1000 sq ft

**Method of dishwashing:**

Handwash

**Loads of laundry per week:** 5

**Hand washing stations:** 2

**NAICS Code:** 624410

### Why are children more vulnerable?

#### High exposure due to:

- Frequent contact with the ground or floor, where chemicals collect.
- Hand-to-mouth activity.
- Less varied diet.
- Eat, drink, and breath more per pound.
- Spend most of the time indoors.



**If a chemical is present in air, food, or water, a greater amount will be taken in by a child in proportion to their body size than by an adult.**

### Products used before:

- Clorox Disinfecting Spray
- Pinalen
- Foca
- Lysol All Purpose Cleaner
- Dawn Dish Soap
- Clorox Wipes



### Products used after:

- Simple Green Industrial Cleaner and Degreaser
- Weiman Stone and Tile Cleaner
- Seventh Generation Laundry Detergent
- ECOS Dishwasher Gel
- Simple Green All Purpose Cleaner
- Clorox ECOclean All Purpose Cleaner



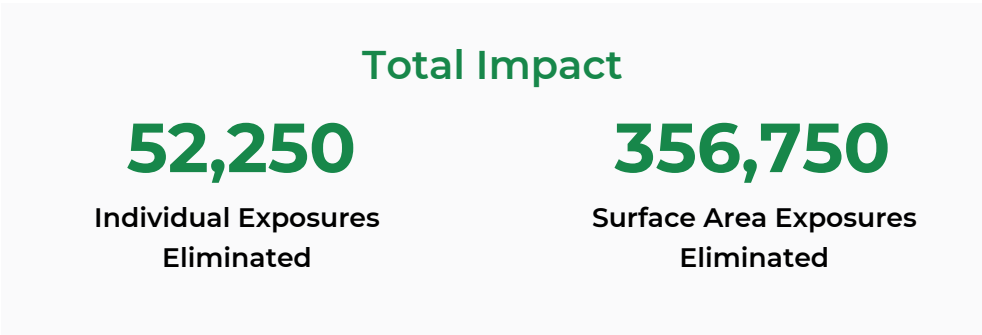
For this program safer cleaning supplies include: EPA certified Safer Choice, GreenSeal Certified products and/or Environmental Working Group evaluated products.

# Results

| Old Item                  | New Item                                    | Use Frequency (Per Day) | Square Feet of Area Cleaned | Number of People Exposed* | Number of Exposures (per week) | Number of Exposures over 1 year period** |
|---------------------------|---|-------------------------|-----------------------------|---------------------------|--------------------------------|--|
| Clorox Disinfectant Spray | Simple Green Industrial Cleaner & Degreaser | 2                       | 1199                        | 19                        | 190                            | 9,500                                    |
| Pinalen                   | Weiman Stone & Tile Cleaner                 | 1                       | 1199                        | 19                        | 95                             | 299,750                                  |
| Foca                      | Seventh Generation Laundry Detergent        | 1                       | 75                          | 19                        | 95                             | 4,750                                    |
| Lysol All Purpose Cleaner | Simple Green All Purpose Cleaner            | 4                       | 1199                        | 19                        | 380                            | 19,000                                   |
| Dawn Dishsoap             | ECOS Dishwasher Gel                         | 4                       | 142                         | 19                        | 380                            | 19,000                                   |
| Clorox Wipes              | Clorox EColclean All Purpose Cleaner        | 12                      | 1199                        | 19                        | 1140                           | 57,000                                   |

\*students and care-providers

\*\*50 weeks, assuming facility is closed 2 weeks each year



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