

# ORANGE BLASTER 66 *Adhesive Remover/Degreaser*

Due to the hazardous ingredients and rising material costs of adhesive removal products used in our fleet de-identification operations, we were forced to experiment with and develop safer and effective chemicals.

## What we found:

- **All of the most effective adhesive removal products contain *d-Limonene* as a main ingredient, although percentages vary.**
- **Many contain *petroleum distillates* and *emulsifiers* that increase the toxicity of d-Limonene.**
- ***Petroleum distillates* are not needed.**
- **Safer, all-natural based *emulsifiers* can be added but not needed for most applications.**
- **D-Limonene, in its pure form, is a very effective, naturally occurring, biodegradable solvent and degreaser, extracted from the peel of oranges. It is 100% natural, environmentally friendly, and non-toxic. It has a very strong citrus aroma and generally Recognized as Safe (GRAS) by the FDA.**
- **Without any additives, it is an extremely versatile product we can utilize in our other service tasks.**
- ***D-Limonene* based products are recommended by vinyl manufacturers, chemical manufactures and cleaning professionals all over the world for removing adhesive, oil, grease and other stains off a multitude of substrates and in many cleaning activities.**

**Orange Blaster 66** is what we came up with. Truth be told, it is nothing more than *Technical Grade d-Limonene* in pure form. We call it Orange Blaster 66 because it smells like **oranges**, adhesive is easily **power washed** off after about a minute and it saved us about **\$66** dollars on the first day we used it in place of the previous, higher priced products. For specific tasks we add a small amount of a safe, biodegradable emulsifier.

Technical Grade d-Limonene can be purchased from [Florida Chemical Company](#) if large quantities are needed, however, many of our local clients purchase 1 gallon and 5 gallon containers from us to avoid over stocking & shipping costs. As d-Limonene prices fluctuate our current prices are:

1 Gallon container	\$ 27.25(+tax)
5 Gallon container	\$127.00(+tax)
10 Gallons	\$236.00(+tax)

*Shipping charges are not included. Add \$25.00 for delivery +20 miles outside of zip code 48180.*

In addition to our target use of **Orange Blaster 66**, adhesive removal, we have found it to be very useful in our other service tasks as we put it to the test. Not only was the effectiveness of **Orange Blaster 66** astonishing, the benefits of this single product have made our team more efficient and operationally prepared. The versatility of this all-natural product is extensive. Below are the many tasks Orange Blaster 66 is used for in our operations.

<p>Adhesive Remover  Chewing Gum Remover  Driveway Cleaner / Oil Spot Solvent  Exhaust Hood Degreaser  Graffiti / Vandal Mark Remover  Grease Traps - Cleaning / Maintenance  Hand Soap / Waterless Hand Cleaner  Paint Brush Cleaner  Rubber Tire Mark Remover  Stovetop / BBQ Grill Cleaner  Equipment / Tool Cleaning  Adhesive / Tree Sap Remover  Brake Cleaner  Food Service Area Cleaner</p>	<p>Bug / Tar Remover  Engine Degreaser  Corrosion Inhibitor Grease/Lube Remover  Mold Release Agent  Parts Cleaner  Penetrating Oil  Silicone Remover  Oil Well Solvents (xylene replacement)  Tank Cleaner / Degreaser  Grease Trap Opener  Odor Control Agent  Bottle Return Areas  Dumpster pads &amp; Compactor Cleaner</p>
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**ADDITIONAL BENEFITS:**

- Free up vehicle/trailer space by replacing many different cleaning agents with Orange Blaster 66
- Reduce exposure to the variety of caustic chemicals needed for our many tasks
- Replace caustic odors in our work areas with the fragrant smell of oranges
- Simplify material costs and detailed inventory tracking
- Reduce worker indoctrination & lengthy safety training steps for multiple dangerous chemicals

The cost benefit in our operations was the motivating factor for our initial implementation. But the most notable factors in the continued and expanded utilization of Orange Blaster 66 are the assurance of increased worker safety and reduced environmental impact.