

ORANGE TKO CLEANER

INSTRUCTIONS FOR USE



The Orange Barn

www.orangebarn.ca

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BASIC MIXES

The following instructions are guidelines only, and dilution may be modified for your own purposes.

	Per Gallon of Water	In 24 oz. spray bottle
MIST	1/2 ounce	1/2 tsp.
LIGHT	1 ounce	1 tsp.
GENERAL	2 ounces	1 -2 tbsp.
STRONG	10 - 20 ounces	4 - 8 tbsp.

POINTS TO REMEMBER

- 1) Tips for mixing:
 - **Always add TKO to water** as it mixes better than if you add the water to the TKO.
 - TKO turns white when mixed with water.
 - Shake before each use.
- 2) As a concentrate, Orange TKO is very economical.
- 3) Always allow time for TKO to emulsify the stain.
- 4) When using on fabric or carpet, ALWAYS test in an inconspicuous spot first.
- 5) Cautions regarding Concentrated Use:
 - Do NOT use **concentrated** Orange TKO on plastics, fibreglass, or Plexiglass.
 - Do NOT put **concentrate** into plastic dispensers!
- 6) If Orange TKO is swallowed, consult a physician or Poison Control Centre.
 - Avoid eye contact - flush with water.
- 7) If you do not achieve the desired results, repeat the application.

GENERAL GUIDELINES FOR HOME USE

Mist:

- Appliances, chandeliers, dusting furniture, chrome, stainless steel

Light Mix:

- Walls, floors, silk plants, counter tops, cupboards or anything that needs a light cleaning
- Use in carpet cleaner instead of shampoo - there are no soap suds to clean up and it leaves no residue in your carpet. Always pre-mix.

General Mix:

- Stains in carpets, fabrics, upholstery, kitchen grease, bathtubs, showers, sinks, etc...
- For cleaning Arborite, bathtubs, sinks, or any other hard surface. Allow time to emulsify.

Strong Mix:

- Tough stains or grease in laundry and carpets, paint brushes and rollers, barbecues, glue, adhesives, tape residue, scuff marks ...

Concentrate:

- Permanent felt marker, gum, candle and crayon wax.
- **CAUTION:**
 - Do NOT use **concentrated** Orange TKO on plastics, fibreglass, or Plexiglass
 - Do NOT put **concentrate** into plastic dispensers.

SPECIFIC APPLICATIONS FOR HOME USE

CARPET STAINS

- Spray on general purpose mix, allow 1 - 2 minutes to emulsify and then remove with a damp cloth in a twisting motion so as not to spread the stain. For difficult stains, you may use a strong mix or spray some concentrate on the stain with your general mix.
- NOTE: For your own peace of mind, we recommend that you test first on an inconspicuous area of carpet.

LAUNDRY

- Pre-spray stains with general or strong mix. Let sit for 1 - 2 minutes, then wash as usual. For tough stains or heavily soiled clothes, soak overnight in light or general mix. Rub spots to help loosen stains, and then wash as usual in the morning.
- For extreme laundry problems, soak overnight as above, but add 1 ounce of TKO to the washing machine and repeat agitation cycle.

TOILET BOWL

- Spray concentrate into bowl. Leave sit for 5 minutes to emulsify, then scrub. Leaves a fresh citrus scent.

FLOOD AND FIRE

- Spray area with general or strong mix of Orange TKO until smoke and musty odours disappear. Helps to eliminate smoke smell from clothing.

ODOUR CONTROL

- Emulsifies skunk odour and odours from footwear, garbage and diaper pails, smoke, fish, manure, sewer back-ups, pets, sick rooms and vehicles.
- Spray the odour source directly with general mix.
- If necessary, spray in the air. Works great just to freshen up a room.

PET USE

PET STAINS IN CARPETS

- On fresh urine stains, blot up as much as possible. Spray the area with general purpose mix, and allow 1-2 minutes to emulsify the stain and odour before removing with a damp cloth.
- On old pet stains, spray on a strong mix, or concentrate followed by a spray of water. Allow 1-2 minutes to emulsify the stain and odour. Application may need to be repeated.
- NOTE: For your own peace of mind, we recommend that you test first on an inconspicuous area of carpet.

PET ODOUR CONTROL

- For indoor use, light mix should be sufficient.
- Use general purpose mix outdoors.
- Spray directly on the odour source, or spray into the air to freshen the room.

CLEAN KENNELS, CAGES, and LITTER BOXES

- Spray on general purpose mix, and allow 1-2 minutes to emulsify.
- Wipe down with a sponge or cloth.
- Rinse litter boxes with water.

CLEAN PET BEDDING AND BLANKETS

- Add 1-2 ounces of Orange TKO in the washing machine. Cleans and deodorizes.

CLEAN PET DISHES

- Wipe down with a light mix of Orange TKO.

HORSE STALLS AND TRAILERS

- Spray on general mix of TKO. Allow to emulsify stains and odours for 5-10 minutes.
- Rinse area with water.

USE FOR RECREATIONAL ACTIVITIES

RECREATION VEHICLE (RV) APPLICATIONS

General Cleaning

- Use general purpose mix of TKO and water (2 oz. TKO per gallon of water) for general cleaning of interior or exterior of RV (walls, floors, counter tops, stove, etc.)

Stain Remover for Carpets and Upholstery

- Removes pet stains, food stains, tar, grease, oil, etc.
- 2 oz/gallon of water works for most. May need to use stronger for tough stains.
- Spray on and leave sit 1 - 3 minutes to emulsify, then remove with a damp cloth.
- May also be used in carpet cleaner - 1 to 2 oz/gallon of water.

Remove tar

- Spray mist of concentrate then a mist of water.
- Let sit 3 - 5 minutes to emulsify, then wipe off.
- May need to reapply for old or heavy tar.
- **Do not spray concentrate on plastic surfaces.** Use strong mix of 1 oz TKO in 24 oz spray bottle of water for plastic.

Septic Tank Odour Control

- Add 1-2 ounces of TKO to 3 cups of water and pour down toilet.
- ***** Always use mixed solution. Never put concentrated TKO on plastic surfaces.**

De-grease motors in motor homes

- Pressure wash engine with water to remove loose dirt and grime.
- While still wet, spray mist of concentrate, or spray strong mix of 10 - 20 oz of TKO per gallon of water over the area to be cleaned.
- Let sit for 10 minutes to emulsify, then pressure wash off.
- If build-up is heavy, you may need to do a second application.

Eliminate skunk odour

- Spray area with 2 - 6 oz of TKO per gallon of water, depending on the severity of the situation.
- If you know the area that was directly sprayed, spray strong mix of 10 - 20 oz/gallon of water.
- If possible, rinse with water after allowing to sit for 3 - 5 minutes to emulsify.

GOLF APPLICATIONS

Hydraulic oil spills from mechanical breakdowns

- Spray a solution of Orange TKO on the spill of 10-12 oz TKO per gallon of water.
- Give time to emulsify and wash off with water. No permanent damage is done to the greens or vegetation.

Oil stains on concrete

- Mix 1 part TKO to 8-10 parts water. Spray on oil stain, leave sit for 15 minutes, and work stain with an old broom to help loosen the oil. Hose off with water.

Ball washers:

- Use 1 oz TKO in 5 gallons of water to eliminate odours and gummy build up.
- Keeps ball washers fresh and clean.

Golf carts and machinery

- May be cleaned with general solution.
- De-grease motors with strong solution.

BICYCLES, ATV'S, MOTORCYCLES & SNOWMOBILES

- Use strong mix to remove oil, grease and grime.
- Use general purpose mix for general clean up.

AGRICULTURAL USE

GENERAL

- Cleans sap from saw blades, vehicles and clothing with general to strong mix.
- Eliminates all odours, including skunk spray.
 - Spray the source of the odour directly.
 - If necessary, spray surrounding area to emulsify residual odours.

DE-GREASING ENGINES AND MACHINERY

- Use water hose or pressure washer (with water only) to wash off loose debris and wet area to be cleaned.
- While engine is still wet, spray concentrated TKO on entire area.
- Allow 10 -15 minutes to emulsify grease and oil.
- Rinse area with water from hose or pressure washer.
- NOTE:
 - No toxic fumes and no danger to your skin or the vehicle's paint.
 - Works well on a cold engine, but works better if the engine is warm (but not hot)
 - Orange TKO is not corrosive and leaves no residue.

REMOVING GRAIN DUST FROM MACHINERY

- Spray machinery with general mix of Orange TKO.
- Allow 3 - 5 minutes to emulsify.
- Spray off with water from hose or pressure washer.

BARNS

- Use 3 - 5 ounces per gallon of water to clean the exterior of all stainless steel pipe lines, bulk tanks, and to remove whitewash and fly dirt from the exterior of pipe lines.

AUTOMOTIVE USE

DE-GREASE MOTORS

- Use water hose or pressure washer with water only to wash off loose debris and wet area to be cleaned. While engine is still wet, spray concentrated TKO on entire area. Allow 10-15 minutes to emulsify grease and oil. Rinse area with water from hose or pressure washer. No toxic fumes and no danger to your skin or the vehicle's paint! TKO works well on a cold engine, but works even better if the engine is warm (but not hot).

INTERIOR

- Use general mix to clean carpets, upholstery and interior panels. Allow time to emulsify on stains. Will remove dirt, grease, oil, tar, etc. from carpets and upholstery.
- Makes a great deodorizer.

EXTERIOR

- Remove road tar, grease or oil by spraying concentrate followed by a mist of water. Allow time to emulsify and wipe off. May need to reapply TKO if tar is heavy or has been there a long time.
- Remove bugs and tree sap with light mix. Spray on, allow a minute or two to emulsify, and wipe off.

SAFETY AND ENVIRONMENTAL CONCERNS

HEALTH ISSUES

- Orange TKO has a toxicity rating of >5 gm/kg. This is the lowest classification level of toxicity, making it very safe to use.
- Orange TKO does not contain any ingredients listed as carcinogens by the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA).

BIO-DEGRADATION

- It is generally accepted that Orange TKO is degraded in the environment in a relatively short period of time. Orange TKO is a safe, naturally occurring compound with many uses.

DISPOSAL OF ORANGE TKO

- Orange TKO does not contain any hazardous ingredients that would render it hazardous for disposal. It should be disposed of in accordance with local regulations.
- Orange TKO will not harm sewage treatment organisms, and is actually consumed as food for bacteria.
- When mixed with hazardous waste, it must be treated as hazardous and disposed of accordingly.

CONTAINER DISPOSAL

- Orange TKO containers are recyclable.
- The residue in empty containers is not hazardous for disposal.

FREQUENTLY ASKED QUESTIONS *

* complied by our TKO supplier from common customer questions

Q: What exactly is Orange TKO? Tell me how it is made.

- Orange TKO is an emulsifier made from the peel of the orange.
- D'limonene is the active ingredient that gives citrus cleaners the punch.
- Through a double distillation process, d'limonene is separated from the orange oil, removing the acidity, leaving Orange TKO with a neutral pH. This double distillation process preserves the organic integrity of Orange TKO.
- Orange TKO is not corrosive, and leaves no residue.
- Two environmentally friendly (EPA approved) surfactants are added to allow d'limonene to blend with water. Surfactants are also wetting agents, which gives TKO more cleaning strength.

Q: If there are no synthetic chemicals in TKO, what IS in it?

- Orange TKO contains d'limonene and surfactants and oxygen that has been added.
- There are no petroleum distillates or other synthetic chemicals.
- It is 100% natural.

Q: Why does Orange TKO cost so much?

- **Orange TKO is a super concentrate.** It has the power to handle the tough jobs that most other cleaners cannot, yet when it is diluted with water according to your application, it is actually very inexpensive. Consider, for example, a general purpose cleaner. We regularly pay \$3.00 to \$5.00 in a grocery store for a 700 ml bottle. Using TKO, a 750 ml spray bottle of general purpose cleaner costs about \$0.41, based on the cost of a 473 ml bottle of TKO! Two ounces of Orange TKO makes a whole gallon of general purpose cleaner! And that's just one example. Because it is so concentrated, you don't need to use much of it, but you always have the option to make it stronger for the tough jobs.

Q: I've got a tough stain in my carpet, and I couldn't get it out with Orange TKO. What am I doing wrong?

- **The first thing to remember is you MUST give TKO time to emulsify the stain.** Spray your mixture on again. For a tough stain, you may use it concentrated (but be sure to spray some water on too as TKO works best with water). Rub it into the stain and leave it sit for 2-5 minutes. Then, take a damp cloth and remove the stain with a twisting motion, so as not to spread the stain. You may need to re-apply TKO & water.

Q: Is there anything that I cannot use Orange TKO on?

- **As long as you can use water on the item, you can use TKO.**
- **ONE CAUTION:** Do NOT use concentrated TKO on plastics. Some plastics may cloud. However, it is safe to use diluted TKO on anything you can put water on.

Q: I used TKO to remove a stain in my carpet, and it did a great job on the stain, but there was a white ring on the carpet after it dried. How do I get rid of it?

- **The white ring is just TKO and water that wasn't removed from the carpet.** It's water soluble, so rinsing the area with some water will remove the white spot. This may also occur in clothing if the TKO is not fully removed. Rinse the spot with water and it will come out. If it's a very tight weave fabric, it may be easier to rinse it out with a shower head. TKO will not stain carpets or fabrics.

Q: I'm having problems getting the hard water stains off my bathtub. Do you have any suggestions?

- Make sure to use it with water. If you're having trouble, give it a little help with some vinegar, or some baking soda on your cloth. That gives you a little bit of abrasive to help cut through it without harming the surface.

Q: Orange TKO has removed rust stains for me before, but I'm having trouble with one - any ideas?

- Spray your Orange TKO on again, and then sprinkle some salt on the rust stain.
- Give it a minute and then rub it off.

Q: Can Orange TKO be used on any fabric?

- TKO is safe to use on any fabric that you can put water on. It will not damage the fibres or the colour of your fabric. This also applies to carpets.
- For your own peace of mind, we recommend that you test first on an inconspicuous area.

Q: Will TKO remove skunk spray and cat spray?

- Yes. Apply Orange TKO directly to the source of the odour. If the odour has permeated other areas, such as carpets or furniture, spray on a general purpose mix of TKO and water. TKO can help to eliminate many odours.

MATERIAL SAFETY AND DATA SHEET (MSDS)

Material Safety Data Sheet

U.S. Department of Labor

Complies with USDL Safety and Health regulations. (29 CFR 1910. 1200)

Section 1: PRODUCT IDENTIFICATION: Degreaser/Deodorant

**Orange TKO Industries International
810 - 16th Ave. NW
Calgary, AB T2M 0J9
T2E 7G8**

EMERGENCIES: 1.800.991.2463

Revision Date: 01/01/08

SECTION II: HAZARDOUS INGREDIENTS

This product contains no ingredients which are considered to represent a health hazard as currently defined by 29 CFR 1920. 1200

This product is not a carcinogen or potential carcinogen as defined by OSHA, The NTP, or the IARC monographs.

SECTION III: PHYSICAL DATA

BOILING POINT: 352 degrees Fahrenheit

VAPOUR PRESSURE: 1 mm of HG @ 20 degrees centigrade

VAPOUR DENSITY, (Air=1): 4.69

SOLUBILITY IN WATER: Emulsifies; Soluble only in trace quantities.

SPECIFIC GRAVITY, (H2O=1): 0.841 @25 Degrees C./25 Degrees C.

PERCENT VOLATILE BY VOLUME: 93%

EVAPORATION RATE, (Water=1): <1

P.H.: (10% Emulsion): 4 - 6

APPEARANCE AND ODOUR: Amber liquid with citrus odour.

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT, (method used): 120 degrees Fahrenheit, (C.C.)

FLAMMABLE LIMITS, (A.I. 302 degrees Fahrenheit): LEL-0.7; VEL-6. 1

EXTINGUISHING MEDIA: 1) Dry powder; 2) Foam; 3) CO₂

SPECIAL FIREFIGHTING PROCEDURES: Avoid use of water as it may spread flame.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid. Keep away from sparks and open flame.

SECTION V: HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Unknown

EFFECTS OF OVEREXPOSURE: Direct eye contact will result in irritation. Possible skin irritation with prolonged use.

EMERGENCY FIRST AID PROCEDURES:

SKIN: Wash immediately with soap and water.

EYES: Flush with water, if irritation persists, call physician.

INGESTION: Drink large volumes of milk or other liquid, call physician immediately.

INHALATION: If symptoms of overexposure and experienced, evacuate to fresh air. Consult physician if breathing is difficult.

SECTION VI: REACTIVITY DATA

STABILITY DATA: Stable

INCOMPATIBILITY: Avoid strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: May occur. Polymerization catalysts such as aluminum chloride should be avoided.

SECTION VII: SPILL OR LEAK PROCEDURES

SMALL SPILLS: Wipe up product, rinse soiled area with water down the drain.

LARGE SPILLS: Stop leak at the source and collect into a suitable container, then treat as a small spill.

Follow state and local regulations for disposal of large non-reclaimable spills.

SECTION VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not normally required, but if vapour concentration becomes high, use general purpose organic vapour mask.

VENTILATION: Local exhaust should be adequate.

PROTECTIVE GLOVES: Nonporous rubber gloves.

EYE PROTECTION: Chemical splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT: Usually not required.

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Handle as a combustible liquid. Vapours can ignite, store away from heat and open flame. Always store unused portion in original container with cap secure. Avoid temperature extremes.

OTHER PRECAUTIONS: All handling equipment should be electrically grounded. As with all chemicals, use with due care according to label instructions and precautions.