

ALT Power Cleaner

1. What is ALT Power Cleaner-orange ?

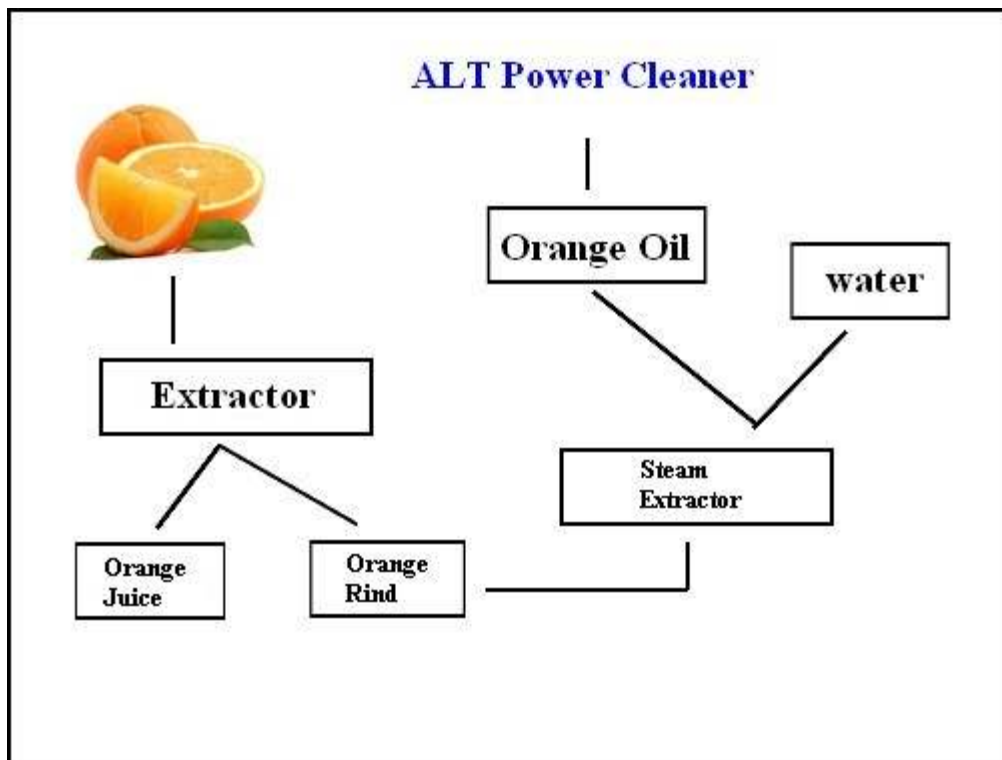
ALT Power cleaner-orange is formulated with natural orange oil from Orange peel to replace solvent based cleaner which is toxic, flammable, environmentally hazardous ozone depleting chemicals but has been used widely by stong and powerful soluability and strong alkali chemical which is poorer in cleaning efficiency than solvent based cleaner.

ALT Power cleaner- orange is unique formula and safe to use on all types of ferrous and non ferrous metals.

ALT Power cleaner- orange 's non-toxic formula allow for convenient, low cost disposal.

ref) what is orange oil ?

→ <http://kookje.iptime.org/iloveyou/datas/WhatisOrangeoil.pdf>



How to produce Orange Oil ?

2. Why we study to use orange oil ?

Two type of Cleaner & Degreaser are widely used in the current market.
Solvent based cleaner and water soluble aqueous cleaner.

Both have good and weak points.

Solvent based cleaner shows very strong and powerful Cleaning efficiency and it also gives very fast drying time by its high flammability.

However this high flammability produces V.O.C (volatile organic compound) and hazardous toxic materials for human and nature.

Recently by the high price of oil, its price is not stable and goes up.

Water soluble aqueous type cleaner was formulated to replace solvent based cleaner. It is much safer to human and nature and less expensive by diluting with water. And There is no limitation to use for any applications from spray , ultrasonic, Dipping and handwiping. But cleaning efficiency is much poorer than solvent based cleaner.

We “ ALT power cleaner Team “ had a goal to create new type cleaner that must have very powerful cleaning efficiency as solvent based cleaner and safe to human and nature as water soluble aqueous type cleaner.

We realized there is a solvent from Nature .

It is “ D-Limonene “ from Natural orange peel.

D-Limonene is just like a solvent. It is flammable itself and is not water soluble.

When we added any additive into D-Limonene to change water soluble,

D-Limonene was easily destroyed and lost its unique characteristics.

For long time, we had studied the best additive that should not give any harm to D-Limonene.

We finally introduce **ALT Power cleaner- orange**.

ALT Power cleaner- orange is water soluble aqueous type cleaner.

It is not flammable.

It is safe and easy to use just like aqueous type cleaner.

It shows stronger cleaning efficiency than aqueous type and less expensive than solvent based.

It has no limitation to clean metals, plastics, glass, etc and it is not harm to painted Surface like car.

It dissolves oily dirt like solvent based cleaner.

It can be heated up like aqueous type cleaner and gives us better cleaning job.

3. How to use ALT Power Cleaner-**orange**

1) Spray wash cleaning

Depend on How much parts are contaminated , **ALT Power cleaner- orange**
Can be sprayed by diluting with water



Ref> Spray wash cleaning video

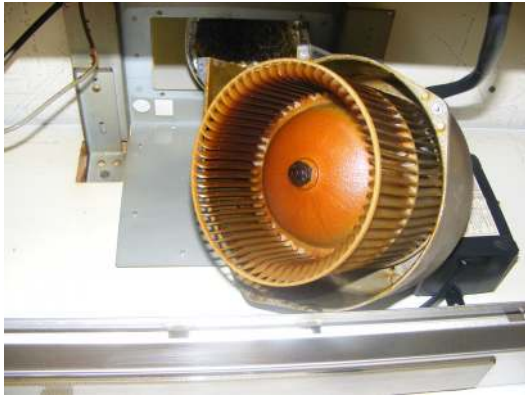
https://www.youtube.com/watch?v=_mZJF14MuRk

https://www.youtube.com/watch?v=ZU67zH_allM

<http://youtu.be/impLNKclJZQ>

2) Dipping cleaning

Dip the parts that is heavily contaminated by oily dirts
This is almost impossible to clean with normal water soluble cleaners.
D-limonene into **ALT Power cleaner- orange** easily solve oily dirts.

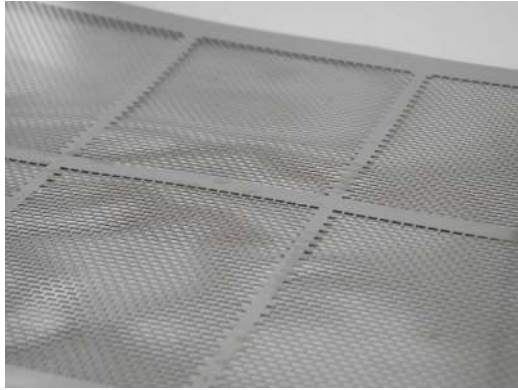
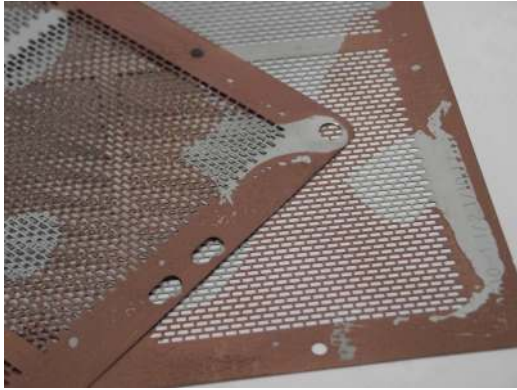


Ref> Dip cleaning video

http://www.youtube.com/watch?v=xG8_3nbQhs8

3) Ultrasonic cleaning

ALT Power cleaner- orange shows the best cleaning efficiency in ultrasonic Cleaning tank.

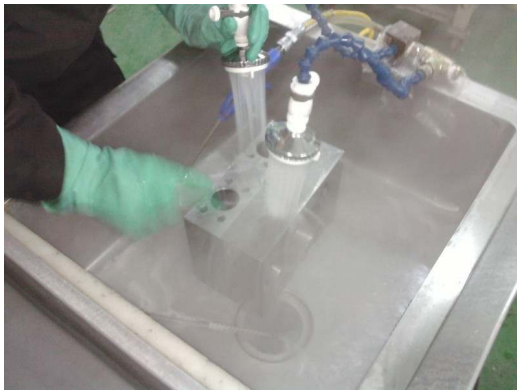


Ref> Ultrasonic cleaning vido

<http://www.youtube.com/watch?v=eIsW3AsvafA>

4) Hand wiping

ALT Power cleaner- orange is safe to use handwiping cleaning job. Make a simple cleaning machine with used plastic or stainless baskets. No need luxurious and expensive cleaning machine.



4. Applications of ALT Power Cleaner-orange

1) Car engine blocks



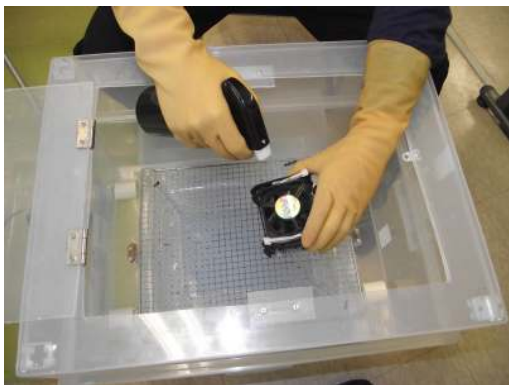
2) various plastic boxes



3) kitchen hood filters



3) computer or Electric goods components



5. MSDS of ALT Power Cleaner-orange

Material Safety Data Sheet

MFG for : **Kook Je Industry**
Rm404, Anyang industrial complex, 555-9, Hogyedong
Dongan-gu, Anyang city, Kyung Gi Province, KOREA 431-763
Phone : 82-31-479-7696 Fax : 82-31-479-7697

SECTION 1 - Product

Name : ALT Power cleaner
Product type : cleaner & degreaser for oily dirt
Product code : APC
Dot shipping name : liquid cleaning Cmpd, N.O.S
Dot hazard classification : None
Dot ID number : None

Health	Flammability	Reactivity	PPE
1	0	0	1

SECTION 2 - Hazardous Ingredients

NONE

SECTION 3 - Health Hazard & first Aid

- Acute Health Effect : None
- Chronic Health Effect : None
- Carcinogen : No
- Primary Entry Routes
 - Skin & Eyes : Repeated contact with the skin may be irritating. Eye contact slightly irritation
 - Ingestion : May be harmful
 - Inhalation : Inhalation of vapor or mist may be irritating
- First Aid
 - Skin : Remove contaminated clothing - wash skin with soap and water. If irritation. Persists get medical attention
 - Eyes : Wash eyes with large volumes of water for at least 15 minutes while lifting the upper and lower eyelids and rotating the eyeball. Get medical attention if irritation persists
 - Ingestion : Give large volumes of water. Do not induce vomiting. Get medical attention
 - Inhalation : Move to fresh air. If symptoms persist seek medical attention

SECTION 4 - Physical & Chemical characteristics

- Physical state : Liquid
- Color : orange
- Odor : orange
- Solubility : Complete
- Specific Gravity(H₂O=1.0) : 1.01 to 1.02
- PH : > 11.0(buffered)
- Freezing Point : 0°C(thaw)
- Flash Point : None(will not burn)
- Vapor Pressure : N/A

SECTION 5 - Fire & Explosion Hazard

- Flash Point : None(will not burn)

- | | |
|-------------------------------------|--|
| 2. Extinguishing Media | N/A |
| 3. Special Fire Fighting Procedures | N/A |
| 4. Unusual Fire & Explosion Hazard | Fire Fighters should observe all precautions that apply to any fire where chemicals are stored |

SECTION 6 - Reactivity DATA

- | | |
|------------------------|------------|
| 1. Stability | Stable |
| 2. Conditions to Avoid | None Known |

SECTION 7 - spill or leak procedures

1. If product leaks or spills - contain then flood area with water - mop up
2. Dispose in accordance with Federal, State and Local regulations

SECTION 8 - Personal Protection

1. Glasses w/side shields
2. Rubber gloves are recommended for long term handling

SECTION 9 - special precautions

1. Store containers tightly closed and in an upright position
2. Do not destroy or deface the label

SECTION 10 - SECTION 313 supplier notification(SARA)

This product contains the following reportable chemicals under Section 313 of the Emergency Planning and Community Right - to - Know act of 1986 and of 40 CFR 372

None

SECTION 11 - Toxicological Information

None

SECTION 12 - Ecological Information

None

SECTION 13 - Disposal considerations

Dispose in accordance with Federal, State and Local regulations

SECTION 14 - Dot Transport Information

This product is Not Regulated

SECTION 15 - Other Regulatory Information

All ingredients appear on the TSCA Inventory List