



Using ingredients derived from soybeans, corn, coconuts, safflower, sugar cane, etc.

E-CLEAN(PSW)



Plant-based solvent/cleaner to remove paint, ink, adhesives, etc.



Features

- Does not contain substances that harm humans or the environment
- Powerful solvency and releasing derived from plants
- Not subject to Fire regulations, PRTR law, or hydrocarbon regulations
- Low VOC, high solvency

Merits

- Reduce the usage of hydrocarbons
- Reduce waste with recycling

Packaging 20L bulk, 200L drum

Cleaning examples

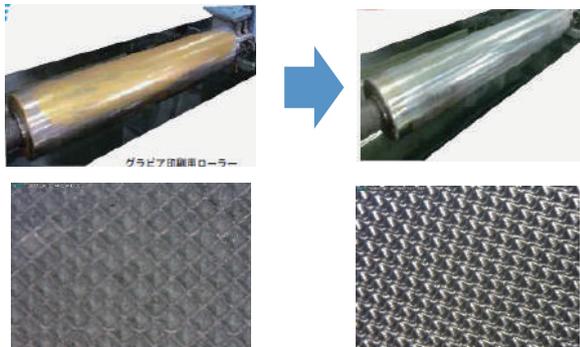
■ Oil-based inks

■ Adhesives used for film, etc.

Printing (gravure, etc.), Plates (ink, adhesive)

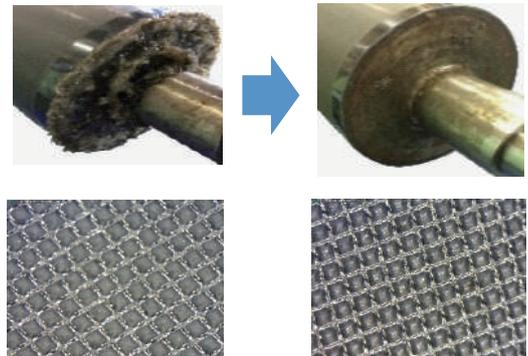
※the detailed photos in the second row show enlargement of the plates before and after washing

Oil-based ink



Until now, strenuous effort was required, but combining the high solvency liquid with ultrasonic cleaning, they effectively cleaned cylinders thickly covered in ink, etc.

Adhesive



Even roll coaters that are covered in years of stubborn adhesive were effectively cleaned using the high solvency liquid with ultrasonic cleaning.

Paint (uncured state, unbaked state)

Spray Guns (Nozzle)



Paint Lines



Way to use

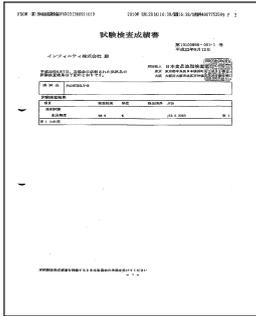
1. Preheating fluid to 40-50C will increase effectiveness of soil removal
2. To be used at full strength
3. If you are thinking about purchasing, inquire for samples with which to test

See reverse side also



■ **Product data and specifications**

■ **Japan Association For Inspection/Investigation Of Foods Including Fats And Oils**



Biodegradation test result:
98.9%(JIS K 3363)

Nondangerous chemicals

■ **Properties**

| | | |
|----------------------|---------------|----------------------|
| Physical Properties | Fluid | Water soluble liquid |
| | pH | 10±0.5 |
| Laws and regulations | PRTR | not applicable |
| | Fire | not applicable |
| | Labor | not volatile |
| Safety | LD50 (oral) | 3129mg/kg |
| | LD50 (Dermal) | 5000mg/kg |

■ **Heavy metal analysis**

• **metal、Polybrominated Biphenyl**

| Test | Units | Result | Protocol |
|-------------------------------|-------|---------|------------------|
| Mercury | mg/L | <0.0005 | S46-59 |
| Cadmium | mg/L | <0.001 | JIS.K0102.55.2 |
| Lead | mg/L | <0.02 | JIS.K0120.54.2 |
| Chrome | mg/L | <0.04 | JIS.K0120.65.1.4 |
| Phosphorus | mg/L | 7.5 | JIS.K0120.46.3.1 |
| Nitrogen | mass% | 1.28 | JIS.K0120.45.2 |
| Normal Hexane | mass% | 3.98 | JIS.K0120.24 |
| Polybrominated Biphenyl | ppm | N.D | GC/MS |
| Polybrominated diphenyl ether | ppm | N.D | GC/MS |

Examples of soils to remove

| | | |
|-----------|---------------------|---------------------|
| Inks | water-based | oil-based |
| | co-reactant | ultra-violet curing |
| Paints | water-based | oil-based |
| | ultra-violet curing | acrylic urethane |
| | powder paints | epoxy |
| Adhesives | acrylic | urethane |
| | epoxy | |

■ **Impact of various materials, immersion test**

• Metal, resin, rubber (impact from 5 week immersion test)

(1) Metal

Immersion test: iron, stainless, aluminum, copper, brass, etc.

| Suitability Evaluation | Material | appearance of specimen after test |
|--------------------------------------|---------------------------------|---|
| Can be used | Iron, stainless, aluminum, tin. | No noticeable changes |
| Can be used under certain conditions | Zinc electroplating | Coating agent disappears |
| Usage is somewhat doubtful | Copper, brass | A trace amount of copper falls out. Brass will turn black after 5 weeks |

(2) Resins

Immersion test: MC nylon, acrylic, teflon, PVC hardened resins, etc.

| Suitability Evaluation | Material | appearance of specimen after test |
|--------------------------------------|---|-----------------------------------|
| Can be used | MC nylon, teflon, PVC, polyethylene, polypropylene, 6nylon, epoxy glass polyethylene, phenol, POM | No noticeable changes |
| Can be used under certain conditions | Polycarbonate | It contracts by about 1.2% |
| Usage is somewhat doubtful | ABS, polyester glass, acrylic | Dissolves. Cracks form |

(3) Rubber

Immersion test: NR, NBR, SBR, Urethane rubber, etc.

| Suitability Evaluation | Material | appearance of specimen after test |
|--------------------------------------|-------------------------------------|--|
| Can be used | SBR, Butyl rubber, EPDM | No noticeable changes |
| Can be used under certain conditions | NR, NBR | After 5 weeks 20% dissolved but after one week still o.k. (estimated from mass change) |
| Usage is somewhat doubtful | Urethane rubber, fluoronated rubber | Swollen strikingly in 1 week |

※ 「Usable」 means that the liquid does not affect the materials
 「Unusable」 means that the liquid does indeed affect the materials
 ※If your material is not listed above, please test on inconspicuous area beforehand

- Depending on unavoidable reasons, the specifications of the product, unit price, etc. may change without notice
- Images in this pamphlet may differ slightly from actual user experiences.
- If you require SDS, please ask.
- Please read instructions thoroughly before use.



Manufacturer
INFINITY Enterprises, Inc.

- **Headquarters:**
Takizawa Building, 3-3-6 Ebisu, Shibuya, Tokyo, Japan
- **Test Center:**
2257 Nakakugi, Nishi-ku, Saitama City, Saitama, Japan
- **Factory:**
2023 Hokunan Moro, Yuki, Ibaraki, Japan

Contact info for inquiries . . .

<http://www.safecare.jp>