

**ECOGENT®**



## **1. Introduction**

Ecogent® is an industrial detergent, which is environment friendly and non-hazardous. This product has been conceived keeping in mind the application problems during cleaning like flammability, toxicity, smell and adverse effect on base material.

## **2. Product salient features**

- a. No flash point, hence no inflammability.
- b. Extremely lower toxicity
- c. No pungent smell as compared to hydrocarbon, chlorine and bromine based cleaning agents.
- d. Ozone depleting potential is ZERO.
- e. Easy to dispose and treat the cleaning waste.
- f. No effect on color and texture of the base material after cleaning.
- g. No dissolution of base material during cleaning.
- h. No use of Volatile organic compounds or hormone disrupting chemicals.
- i. Costs 1/5 ~ 1/10<sup>th</sup> of other cleaning agents.

## **3. Removes**

- a. Cutting Oil
- b. Tapping Oil
- c. Press Oil
- d. Lubricant
- e. Grease
- f. Quenching Oil
- g. Anti Rust Oil
- h. Metal Powder
- i. Grind Dust

## **4. Material Compatibility**

Ecogent® can be applied to wide range of materials with no color change or dissolution of base material viz.

- a. Metals – Steel , Aluminum, Copper, Brass & many other metals/ alloys
- b. Rubbers
- c. Plastics
- d. Resins

## 5. Application areas

### Electronic/ Electric Parts

Home appliance (TV, Washing machine, Fridge, etc), Digital Camera, Dry cell Can, Photoreceptor Drum, Compressor, Lead Frame, Ferrite Core, Silicon Wafer, Resistor

### Car Parts

Engine Block, Piston Ring, Gear, Roller Bearing, Damper, Fuel Injector, valve, Car Stereo, Brake Pad, Antenna, Pipe, Lamp

### Machine Parts

Machine Tool, Gear, Bulb, Bearing, Coil, Connector, Tools, Screw, Washer, Farm Implement, Caterpillar, Construction Machine, TEFRON

### Medical Equipment

Injection Needle, Measuring Device, Catheter

### Others

Fastener, Metal mold, Watch, Wire Rolling, Metal Button, Office Equipment, Floor, Barrel Polishing, Pretreatment for Plating or Paint etc.

## 6. Cleaning Methods

The Basic process involves: Cleaning → Water Rinsing → Drying.

The effectiveness of cleaning depends on the following contributing factors.

- a. Concentration
- b. Washing Time
- c. Temperature
- d. Dipping/ Oscillation/ Ultrasonic/ High Pressure

## 7. Material Properties

Appearance.....	Milky White Liquid
Odor.....	Slight Odor
Toxicity.....	Slight toxicity
pH Value. ....	10.8~11.8
Flash point, °C .....	none
Flammability .....	none
Specific gravity, 25/25 °C .....	1.02 – 1.05
Boiling point, °C .....	100°C
ODP ( Ozone Depleting Potential ).....	Zero

## 8. Dosing

Ecogent® should be used in diluted condition with concentration varying from 3~10% depending on the application.

## 9. Packaging & Availability

Ecogent® is available in either 5kg or 10kg jars which is easy to store & use.

## 10. Health & Safety

In case of Eye Contact :

Immediately flush with plenty of water. Consult physician if irritation persists.

In case of Skin Contact :

Wash with Water. Consult physician if irritation persists.

In case of Ingestion:

Drink plenty of water and throw up swallowed. Immediately consult a physician.

## 11. Handling & Storage

Handling:

Ventilation is not needed when handling. Use of safety glasses, rubber gloves & rubber boots is recommended to avoid contacting with skin and eye.

Storage: Avoid direct sunlight and store it in a cool and dark place. Wash spilled area with water or wipe up spilled liquid.

## 12. Precautions

- a. Avoid direct sunlight and keep it in a cool & dark place
- b. Prolonged storage may cause the separation of liquid, so it is advisable to stir it until it turns to the state of homogenized emulsion before use.
- c. Should the liquid be frozen, heat it to 15~25°C and stir it till the state of homogenized emulsion is realized.
- d. In case of water-based detergent, it may cause corrosion depending on the materials used for cleaning equipment, if kept exposed to atmosphere for a long period of time without proper drying.