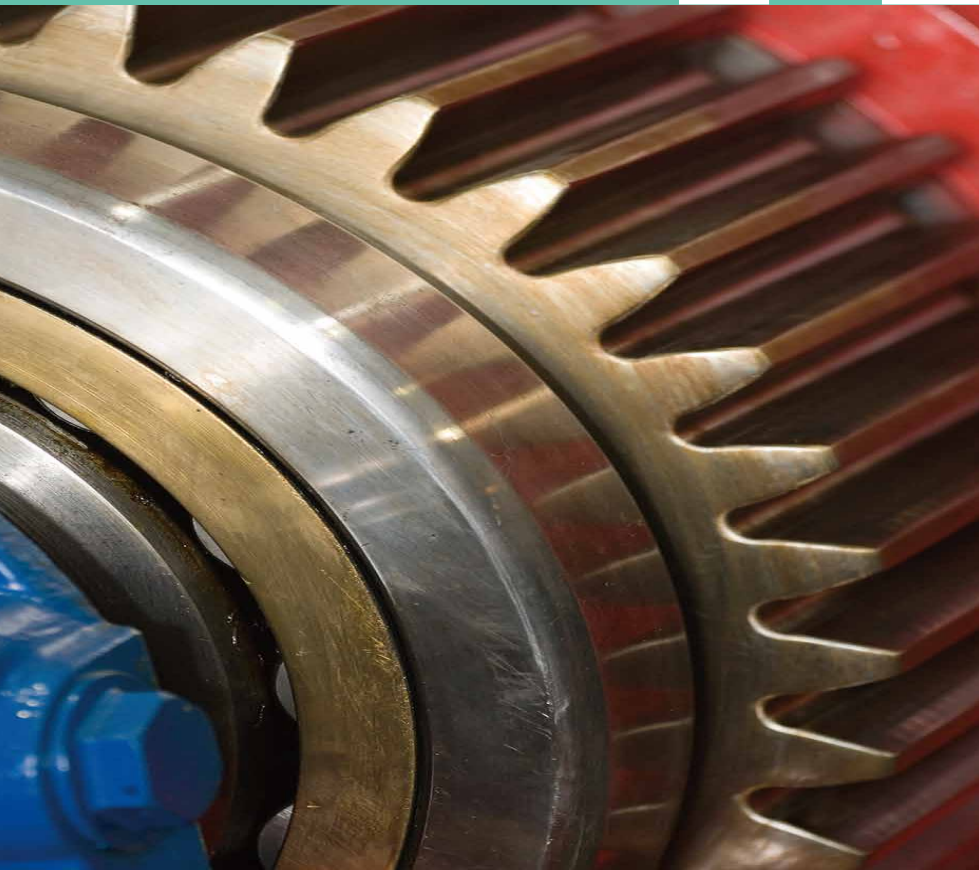




Industrial Chemicals
The Ultimate Choice

123

CORIUM 123 General Purpose Degreaser



General Purpose Degreaser

- *Environmentally & Toxically Safer Formulation (It has low toxicity)*
- *All Purpose Degreasing Power*
- *Evaporates Instantly – Use on Delicate Parts & Plastics*^{Note}
- *High Purity Solvent With No Residue*
- *Unique Stabilizer Package Enhanced Performance*
- *User-Friendly in Existing Cleaning System – No Need for New Equipment*

**TRUST
CORIUM
FOR**

*Ease of Application
Wide Versatility
Outstanding Physical
Properties*



TW
**PERFORMANCE
POLYMERS & FLUIDS®**

KOREA

TW

SPECIAL FEATURES

CORIUM 123 is the new environment-friendly, multipurpose NPB (N-Propyl Bromide) based cleaner formulated with high-purity solvent and fast evaporation formulation

- **CORIUM 123** is a preferred and consummate alternative to ozone-depleting CFC and HCFC cleaners
- **CORIUM 123** protects electrical components and cleans without scrubbing
- **CORIUM 123** offers fast evaporation for top degreasing impact - up to 33% faster than Trichloroethylene

OUTSTANDING PROPERTIES

- Minimal ozone depletion or global warming potential
- No residues, fast drying
- A high performance substitute for Trichloroethane, Trichloroethylene and other solvents
- Low toxicity, not classified as carcinogenic
- Moderately low boiling point – evaporates instantly
- Non-flammable (any combustion of NPB rapidly self-extinguishes)

USE FOR

CORIUM 123 General Purpose Degreaser is a truly versatile and powerful degreaser that fits application via existing vapor degreaser and is suitable for a wide range of uses:

Removal of both polar & non-polar contamination such as grease, dust, light oil, and rosin fluxes; Degreasing cured epoxies, flux laminates, solder masks, metals and their alloys; Cleaning electronics components, hybrids, surface mount assemblies, optics, heads in disc drives, plastics* etc.

Note Some sensitive plastics & elastomers should be tested for compatibility before use



Industrial Chemicals
The Ultimate Choice

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The information contained in this publication is to the best of our knowledge and accurate at the time of issue in November, 2016

CORIUM 123

General Purpose Degreaser

DESCRIPTION

CORIUM 123 General Purpose Degreaser is the new environmental-friendly, multipurpose degreaser formulated with high-purity solvency and fast evaporation properties. It is a preferred and consummate alternative to CFC (Chlorofluorocarbon) and HCFC (Hydrochlorofluorocarbon) cleaners. As a NPB (N-Propyl Bromide) based degreaser, CORIUM 123 is non-flammable ^{Note}, contains low odor, and it has a near zero, Ozone Depletion Potential (ODP) and Global Warming Potential (GWP).



500ml, 5 litre & 20 litre packing

PERFORMANCE CHARACTERISTICS

❑ Non-flammable ^{Note}

^{Note} Most hydrochlorocarbons, some hydrofluoroethers, some hydrochlorofluorocarbons and NPB will burn when the vapor concentration in air is within narrow limits. When such vapors begin to burn, several factors rapidly change the vapor concentration so that it is no longer within the flammable limits. The concentration in the vapor state is depleted by both consumption in the oxidation process and by expansion of the vapor caused by the exothermic combustion. **The combustion rapidly self-extinguishes.** So they are practically non-flammable even though they have measurable flash points.

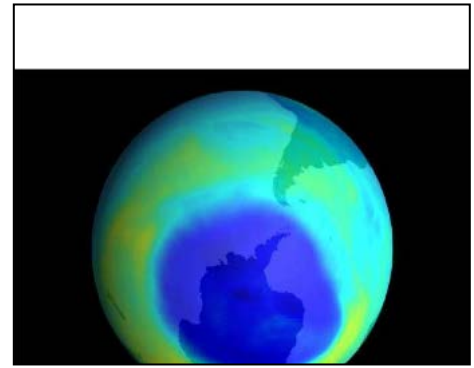
These NPB products will be declared as DG with export shipment. However, it is expected that “Flammable” warning symbol will NOT be required on the product labels in countries other than the EU.

- ❑ Moderately low boiling point – evaporates instantly
- ❑ A new solvent system that encompasses a multipurpose solvent and a performance enhancing stabilizer package
- ❑ A high performance substitute for Trichloroethane, Trichloroethylene and other solvents
- ❑ Minimal global warming potential
- ❑ No residues, fast drying
- ❑ All components are EINECS (European INventory of Existing Commercial Substances), and TSCA (Toxic Substances Control Act), registered
- ❑ Low toxicity, not classified as carcinogenic
- ❑ Not regulated with respect to ODP (Ozone Depletion Potential)
- ❑ Contains no registered HAP's (Hazardous Air Pollutant)

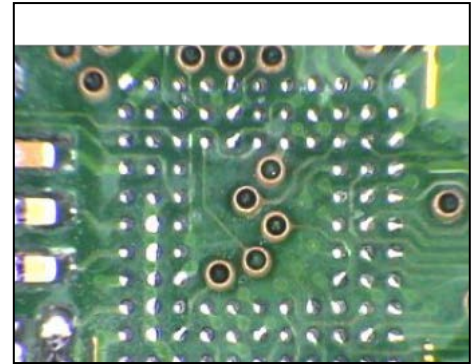
KEY BENEFITS

- ❑ Patented stabilization + performance enhancing system – lasts up to 4 times as long in use
- ❑ Powerful, yet cleans without scrubbing
- ❑ Leaves no residues – extremely high purity solvent
- ❑ Fast evaporation for best degreasing impact on the most delicate parts and components (up to 33% more efficient than Trichloroethylene, in vapor loss)
- ❑ Reclaimable – save expensive waste removal costs

- ❑ User-friendly in existing cleaning system, saving large investment costs associated with other systems
- ❑ Environmentally safe, and is not covered under NESHAP (National Emissions Standards for Hazardous Air Pollutants) regulations
- ❑ A better and genuine substitute for old style ozone-depleting solvents such as Freon and Genesolv 2004



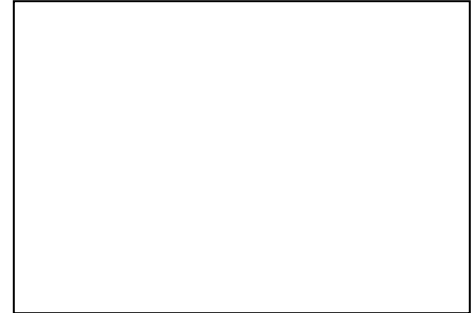
The new CORIUM 123 helps slow down the depletion of Ozone layer



Solder masks

RECOMMENDED APPLICATIONS

- ❑ Perfect for most common components
- ❑ Ideal for difficult cleaning situations where solvent entrapment is a concern
- ❑ Easily removes both polar and non-polar contamination such as grease, dust, light oil, and rosin fluxes
- ❑ Outstanding degreasing performance on all types of PCBs and even clean hybrids and tightly packed surface mount assemblies
- ❑ Safe for fragile circuits such as read-write heads in disc drives
- ❑ Fast evaporation of CORIUM 123 helps in repair environments or when cleaning optics
- ❑ Suitable for cured epoxies, flux laminates, solder masks, metals and their alloys
- ❑ CORIUM 123 is the only alternative that can be used in old style vapor degreasers without retrofitting
- ❑ **Note: Some sensitive plastics & elastomers should be tested for compatibility before applying**



Cleaning system



Optics equipment



Vapor degreaser

HOW TO USE

When using on flimsy or cheaper grades of plastic, pre-test to ensure there is no grazing or softening of the substrate. Since CORIUM 123 effectively cleans and degreases most surfaces so rapidly, special attention should be paid to rust or oxidation-prone surfaces once cleaned as such surfaces no longer have any protective oil film to retard the onset of rust. Examples would be cast iron parts or mold steels.

1. Read the instructions on the can.
2. CORIUM 123 will rapidly dissolve all oily substances and then vaporize (evaporate). After vaporizing, loosened dirt may still remain, and this can be easily removed with a wire brush, emery paper, a toothbrush or cotton swabs - depending on the severity of the contaminant.
3. CORIUM 123 is especially recommended for cleaning surfaces and parts prior to joining together with adhesives (such as epoxy) as it effectively degreases the joints and leaves no contaminants, thereby promoting better bonding strength and joint integrity. In such applications, thoroughly wet the surfaces to ensure ample and complete surface flushing action.
4. It vaporizes in seconds to promote faster parts re-use.
5. For heavily-encrusted surfaces, re-spraying and agitation with a brush may be necessary to ensure CORIUM 123 gets deep down into the contaminant to pry it loose.
6. CORIUM 123 also features a unique "all position" spray head and will spray evenly, even when in areas of difficult access to the parts to be cleaned, where tilting the can while spraying is unavoidable. (Normally aerosol applicators only spray evenly when held vertically upright).

TYPICAL DATA

Color & Appearance	Clear liquid
Odor	Low
Density	1.30 – 1.35 g/ml @ 20°C
Acid acceptance value	< 0.20 % NaOH
Maximum level of impurities Residues Water Stability	< 50 ppm 450 ppm passes Aluminum test
Distillation range at 760 mm Hg 5 – 95%	66 – 72°C
Boiling Point	69.5°C
Approx. freezing point	-110°C
Specific gravity	1.3
Specific heat (cal/°C)	0.25
Heat of vaporization: Cal / gm BTU / lb	57 302.3

Refractive index at 25°C	1.48
Viscosity at 25°C (cps)	0.42
Flash Point (Tag closed cup ASTM-D56)	None
Vapor density (air=1)	4.3
Kauri Butanol value	120

ELECTRONICS PLASTICS COMPATIBILITY

POLYMER	SOAK TEST (1 HOUR)	VAPOR TEST (2 MINUTES EXPOSURE)
Polyurethane	Compatible	Compatible
Polyester	Compatible	Compatible
Isoprene (natural rubber)	Compatible	Compatible
PVC	Compatible	Compatible
Aramid	Compatible	Compatible
Cellophane	Compatible	Compatible
Polycarbonate	Incompatible	Incompatible
Polystyrene	Incompatible	Incompatible
FRP-Epoxy	Compatible	Compatible

GENERAL TEST: A circuit board with a clear acrylic coating and over 300 different components was immersed in the solvent and in the vapor, when checked, no sign of attack was visible

PRECAUTIONS

COMPATIBILITY: CORIUM 123 General Purpose Degreaser generally will clean all common components, given that some plastics and elastomers will need to be tested for compatibility before using it. It is safe for cured epoxies, flux laminates, and solder masks, metals and their alloys. Whilst this product can replace CFC's it may not be suitable universally. Users should test before application on soft or sensitive plastics and elastomers.

HEALTH AND SAFETY: This product is based on n-Propyl Bromide and performance enhancing stabilizers. It is recommended that a 100ppm-workplace exposure limit be maintained. It is not flammable and is neither a known or suspected carcinogenic.

Good chemical management always requires users to be trained in safe and efficient

handling of the product. Always use care when operating a vapor degreaser and maintain good ventilation when using this product. Take care to control the solvent and hazards & waste will be minimized.

For complete safety and handling instructions, please refer to the Material Safety Data Sheets prior to using this product. This is a vapour-cleaning grade product, it is a harmful substance and should be stored in a well-ventilated place.

Pressurized aerosol container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep out of reach of children. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Do not breathe spray. In case of insufficient ventilation, wear suitable respiratory equipment. If swallowed, seek medical advice immediately and show this container or label. Use this aerosol product only for the applications for which it is intended.

WARRANTY: ITW PP & F Korea Limited will replace any material found to be defective. Because the storage, handling and application of this material are beyond our control we can accept no liability for the results obtained.

DISCLAIMER: All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW PP & F Korea Limited makes no representations or warranties of any kind concerning this data.