



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CHEMTRONICS

Technical Data Sheet

TDS # 155

Eco-Rite™ Heavy Duty Degreaser

The eco-friendly, industrial grade aqueous degreaser

PRODUCT DESCRIPTION

Environmentally preferable Eco-Rite™ Heavy Duty Degreaser is specifically formulated for removal of all types of soils including oxidized grease, sludge, and oil, while having a low environmental impact. This unique formulation is non-flammable, biodegradable, and has neutral pH, offering safe and efficient cleaning of a variety of surfaces. Available in a concentrate ready for dilution, Eco-Rite™ Heavy Duty Degreaser offers all the cleaning power for hard-to-remove soils. The water-based cleaning solution quickly penetrates, emulsifies and lifts the toughest grime, without the environmental impact of high VOC's, high pH, and butyl-based cleaners.

- Heavy-duty cleaning performance
- Quickly penetrates, emulsifies and lifts the toughest grime
- Removes grease, oil, waxes and resins
- Non-flammable
- Biodegradable
- Formulated with ingredients on EPA Design for Environment list
- No Phosphates, EDTA, or NTA
- Non-caustics, non-acidic, no chlorine bleach, no abrasives
- No Petroleum Distillates
- No Alkylphenolethoxylates
- Butyl-free
- Meets CARB LBP-VOC Exemption

TYPICAL APPLICATIONS

Eco-Rite™ Heavy Duty Degreaser can be used for all repair, maintenance, and manufacturing cleaning applications including:

- Removes grease, oil and lubricants
- Ideal for metal parts cleaning and tools
- All repair and maintenance cleaning
- Cleans electric motors and gasoline engines
- Removes tough soils from gears and pulleys
- Use for maintenance of air compressors

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Boiling Point	>200° C
Evaporation Rate (butyl acetate=1)	<1
Flash Point (TCC)	None
Specific Gravity	1.02 (concentrate)
Vapor Pressure @68°F	<0.02 mmHg
Appearance	Clear, colorless liquid
Odor	Mild, Clean
Solubility in Water	100%
pH	7.0
Shelflife	2 years
CARB & OTC VOC Content	0% VOC
SCAQMD VOC Content	218 g/L Diluted 1:1
VOC Content	435 g/L concentrate

*Volatile Organic Compound (VOC) information is calculated on a weight basis using the VOC definition of California Air Resources Board (CARB) Consumer Product Regulations, South Coast Air Quality Management District (SCAQMD) Rule 102 and the Federal definition published in 40 CFR 51.100(s).

COMPATIBILITY

Eco-Rite™ Heavy Duty Degreaser is compatible with most metals and plastics. As with any solvent, compatibility with substrate should be determined on a non-critical area prior to use.

<u>Material</u>	<u>Compatibility</u>
ABS	Poor
Buna-N	Fair
Butyl	Good
EPDM	Good
Graphite	Excellent
HDPE	Good
PVDF	Excellent
LDPE	Good
Lexan™	Fair
Neoprene	Good
Noryl®	Excellent
Nylon™ 66	Excellent
Polyacrylate	Good
Polypropylene	Excellent
Polystyrene	Poor
PVC	Excellent
Silicone Rubber	Excellent
Teflon™	Excellent

USAGE INSTRUCTIONS

Read MSDS carefully prior to use.

Spray Eco-Rite™ Heavy Duty Degreaser on the surface to be cleaned. Wipe away soils with a Controlwipes™ Wipe, or rinse with clean water.

Can be used in hot or cold immersion, ultrasonic or aqueous cleaning systems. For immersion systems, soak as necessary. Parts can also be cleaned with a pressure sprayer by spraying parts from top to bottom, allowing the liquid to flush away dirt and dissolved grease.

Dilution ratios for concentrate:	<u>Water : Conc</u>
Heavy grease, oxidized oils and grime	Undiluted
Fiberglass, Plastics	1:1
General cleaning	1:1
Dip tanks	Undiluted
Parts washers	2:1
Ultrasonic cleaners	2:1

AVAILABILITY

ES155 1 gallon

TECHNICAL & APPLICATION ASSISTANCE

Chemtronics provides a technical hotline to answer your technical and application related questions. The toll free number is **1-800-**

TECH-401, or e-mail us at

AskChemtronics@chemtronics.com .

SAFETY & ENVIRONMENTAL DATA

SAFETY & ENVIRONMENTAL DATA			
CFC	0.0%	VOC - CARB & OTC	0.0%
nPB	0.0%	VOC - SCAQMD	218 g/L RTU 435 g/L conc.
HCFCs	0.0%	HFC	0.0%

Hydrochlorofluorocarbons (HCFCs) are regulated under the Montreal Protocol as Class II ozone depleting substances. HCFC-141b is no longer produced in the US under this legislation. HCFC-225 is planned for production phase-out in 2015. Hydrofluorocarbons (HFCs) are not currently regulated.

EPA has listed n-propyl bromide (nPB) as an acceptable alternative to ozone depleting substances in metal, precision, and electronics cleaning under Section 612 of the Clean Air Act.

NOTE:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

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REV D (08/13)

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