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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 # 3277

Eco-Rite™ Multi-Purpose Cleaner

The eco-friendly, multi-purpose aqueous cleaner

PRODUCT DESCRIPTION

Environmentally preferable Eco-Rite™ Multi-Purpose Cleaner is a low environmental impact multi-purpose cleaner, specifically formulated for a variety of cleaning applications. This formulation is non-flammable and biodegradable, offering safe and efficient cleaning of a variety of surfaces. Available in a convenient, ready-to use trigger spray or a concentrate ready for dilution, Eco-Rite™ Multi-Purpose Cleaner is ideal for cleaning hard surfaces such as bench tops, counters, tool boxes, compressors, floors, hoists, lifts, engines, etc. The water-based cleaning solution quickly penetrates, emulsifies and lifts the toughest grime, without the environmental impact of high VOC's, caustic compounds, and butyl-based cleaners.

- Multi-purpose spray and wipe cleaning performance
- Removes oils, dirt, waxes and handling soils
- Non-flammable
- Biodegradable
- No Phosphates, EDTA, or NTA
- Non-caustics, non-acidic, no chlorine bleach, no abrasives
- No Carcinogens, Ozone Depleting Compounds
- No Petroleum Distillates
- No Alkylphenolethoxylates
- Butyl-free

TYPICAL APPLICATIONS

Eco-Rite™ Multi-Purpose Cleaner can be used for all repair, maintenance, and manufacturing cleaning applications including:

- Removes oils, handling soils and lubricants
- Ideal for metal parts cleaning and tools
- All repair and maintenance cleaning
- Used to clean grease and other soils from a variety of surfaces such as:
 - Stainless Steel, Chrome
 - Plastics
 - Ceramics and enamel

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Boiling Point	212° F (Initial)
Evaporation Rate (butyl acetate=1)	<1
Flash Point (TCC)	None
Specific Gravity	1.01 / 1.02 (RTU / concentrate)
Appearance	Clear, colorless liquid
Odor	Mild, Clean
Solubility in Water	100%
pH	9.68
Shelflife	2 years
CARB & OTC VOC Content	0.0% VOC
SCAQMD VOC Content	87 g/L trigger sprayer RTU

*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™ Multi-Purpose Cleaner 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	Excellent
Buna-N	Excellent
Butyl	Excellent
EPDM	Excellent
Graphite	Excellent
HDPE	Excellent
PVDF	Excellent
LDPE	Excellent
Lexan™	Excellent
Neoprene	Excellent
Noryl®	Excellent
Nylon™ 66	Excellent
Polycarbonate	Excellent
Polypropylene	Excellent
Polystyrene	Excellent
PVC	Excellent
Silicone Rubber	Excellent
Teflon™	Excellent

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	86 g/L trigger sprayer
HCFCs	0.0%	HFC	0.0%

CFC, HCFC, CL. SOLV., VOC, and HFC numbers shown are the content by weight. Ozone depletion potential (ODP) is determined in accordance with the Montreal Protocol and U.S. Clean Air Act of 1990. The ODP of this product is 0.0. It is the sum of the ODP of the substances that may contribute to the depletion of stratospheric ozone, based upon the weight of each substance in the product's formulation.

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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USAGE INSTRUCTIONS

Read MSDS carefully prior to use.
 Spray Eco-Rite™ Multi-Purpose Cleaner 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	2:1
Fiberglass, Plastics	4:1
General cleaning	8:1
Dip tanks	8:1
Parts washers	16:1
Ultrasonic cleaners	16:1
Pressure cleaning systems	60:1

AVAILABILITY

ES3277	32 oz trigger sprayer
ES3277E	0.95 L trigger sprayer
ES177	1 gallon concentrate
ES177E	3.7 L concentrate, EU Label

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