

# AquaKlean EF 145

## Technical Data Sheet

### Highly Alkaline Etchant and Cleaner

Highly alkaline liquid ferrous and non-ferrous metal cleaner & Aluminum and Aluminum alloy etchant for spray washer and tank applications.

#### Description:

NuGeneration Technologies' AquaKlean EF 145 is a highly alkaline liquid cleaner & etchant with low to no foam for use in agitated tank applications. The non-phosphated formula will not sludge or scale up.

AquaKlean EF 145 may be used as an Aluminum etchant and cleaner. Provides cleaning on both ferrous and non-ferrous metals while enabling an aggressive etch on Aluminum alloys. Other acceptable materials include: Magnesium, plastics, ceramics and glass.

#### Characteristics:

AquaKlean EF 145 was formulated to both clean and etch Aluminum and its alloys in order to reduce residues, scaling, and sludging of tanks. AquaKlean EF 145 cleans: inks, polishing and buffing compounds, greases, oils, fingerprints, drawing compounds and metalworking fluids.

#### Directions for Use:

AquaKlean EF 145 is effective at ambient temperatures. However, it is normally used at 10 to 20% by volume of water at 120 °F to 190 °F for 5 seconds to 5 minutes. The parameters can vary due to the type and extent of soils to be removed. Temperatures may be increased slightly for shorter time cycles. Safe on Magnesium. Test for discoloration on cuprous alloys.



### Product Benefits

- Aluminium/Aluminum alloy spray and tank cleaner & etchant
- Ferrous and non-ferrous metal spray and tank cleaner & degreaser
- Biodegradable
- Low foaming tendency



## Physical Properties

Use concentration (spray)	5 - 10% by volume
Use concentration (immersion)	10 - 20% by volume
Bulk Density	9.7 lbs/gal
Operating Temps	70 °F and up Best >120 °F to 190 °F
pH, Concentrate	> 13.0
pH, @5%	12.5 - 12.9
VOC (Concentrate)	0 g/L
Flash Point	None
Chelates	Yes
Soluble in water	Complete
Biodegradable	Yes
Corrosive	Yes

**Availability:** 5-gallon and 55-gallon containers, 275-gallon totes and bulk tankers.

**Shipment:** DOT - UN3266 Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide), 8, PG II, ERG #154

**Storage:** Keep out of direct sunlight. Keep from freezing. Store between 40 °F - 120 °F.

**Disposal:** Dispose of in accordance with local, state, and federal regulations. For assistance with disposal contact NuGeneration Technologies at 888-99-NuGen or email: [info@nugentec.com](mailto:info@nugentec.com).

**Regulatory:** This product is classified and labeled according to the Globally Harmonized System (GHS).

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## EMERGENCY OVERVIEW:

This product may cause corrosion to the skin and eyes.

## SAFETY:

Please make sure you have read and understand the product label and SDS before using this product. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Wash thoroughly after handling. Observe label precautions.