

# TORNADO - Acid Replacement Technology

**Jamson Labs / PowerKleen**

Chemical Solutions Since 1973

PRODUCT #: PK-9255

## PATENTED — THE WORLD'S ONLY NON-ACID CONCRETE EQUIPMENT WASH

### WHAT IS TORNADO?

**TORNADO** is the world's first and only Patented synthetic acid made using Acid Replacement Technology (ART). **TORNADO** is a synthetic acid that is 100% Biodegradable, Non-Corrosive, Non-Regulated, and a Non-Skin Irritant. ART is being used in the Concrete Industry to replace the harsh acids used to dissolve concrete. These harsh acids have posed a threat to our health, our equipment, and our environment. Developed and Patented by Peach State Laboratories, Acid Replacement Technology (ART) is **TORNADO** with EPA, OSHA, and DOT regulations.

### MANUFACTURING AND DISTRIBUTION OF TORNADO

Peach State Laboratories and their Patented ART technology, now in partnership with Power Kleen Corporation, joins the Right Off family of products. Currently the largest manufacturer of concrete products in the United States, Power Kleen cements **TORNADO's** future in the industry as the sole manufacturer and distributor of Peach State's ART technology in the United States and abroad. **TORNADO** users will now enjoy the same unmatched research and development, service, technological advances, and product quality that Power Kleen customers have known for over 30 years.

### TORNADO USE

**TORNADO** can be used as a daily truck wash to remove built-up concrete without any neutralization. **TORNADO** is so safe, it can be used on any surface, including glass, aluminum, chrome, rubber, plastic, or paint. **TORNADO** also includes detergents for degreasing, corrosion inhibitors, optical brighteners, foaming agents, water softeners, and surface expanders.

Start washing your equipment with **TORNADO** today and enjoy the benefits of using a true, "one of a kind" concrete remover. Your customers, your equipment, and your employees will thank you!

### PRODUCT HIGHLIGHTS:

- 100% Synthetic Acid
- Patented ART Technology
- Approved & Certified by Peach State Laboratories
- OSHA Compliant
- DOT Classification: Not Regulated
- Low Contributor To BOD/COD in Effluents
- A low pH Organic Salt that is used to replace traditional harsh acids
- No Phosphates
- Non-Fuming
- Safe on All Surfaces
- Safe on Skin
- Removes Concrete Quickly and Efficiently
- Removes Grease and Grime
- Up to 10 times more effective than other industry products when dissolving Calcium Carbonate

### TRANSPORT INFORMATION:

Proper Shipping Name -  
Non-Hazardous for Transport by Truck  
DOT Hazard Class - Not Regulated  
Packing Group - Not Regulated  
ID# - None

### AVAILABLE IN:

1 Gal Jug, 5 Gal Bucket, 55 Gal Drum,  
275 Gal Tote, 300 Gal Leg Tank  
or delivered via Tanker Truck

**PowerKleen**

Quality Chemicals • Superior Service

In Affiliation with:



PATENT #5,672,279

### GUARANTEE:

Jamson Labs' / Power Kleen's manufacturing and laboratory controls ensure uniform quality throughout our product line. All Jamson Labs / Power Kleen manufactured products are guaranteed for 1 year when used as directed.

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**Metal Studies**

Department of Transportation (DOT) Shipping Test Protocols as per Section 173.154 Exceptions for Class 8 (corrosive materials): A liquid is considered to be corrosive if its corrosion rate exceeds 6.25 mmpy on Steel (SAE 1020 carbon steel) at a test temperature of 55° C.

*Results of Tornado Testing:* SAE 1020 carbon steel = 0.64 mmpy

*Conclusion:* Tornado was proven to be a Non-Regulated material with regards to shipping over the road.

**Toxicity Studies**

Test Procedure OECD 202, 48hour  
*Results of Tornado Testing:* LC 50 and LD 50 (rat oral) scores found RMWW to be Non-Toxic.

**Dermal Irritation Study**

A modified Draize method was used as described in OECD Guidelines for the Testing of Chemicals, Sec. 404, Paris 1981 (revised 1992). This study complies with the requirements of OECD Principles of GLP, Annex, Paris, 1981, revised as of July 1992.

*Results of Tornado Testing:* Tornado received a Primary Irritation Score of 2.1 ± 0.9 and is classified as a Non-Skin Irritant.

**Mutagenicity Studies**

Tested by the Ames Assay (OCED Guidelines for Testing of Chemicals, Sec. 471).

*Results of Tornado Testing:* Tornado was found NOT TO BE MUTAGENIC.

**Biodegradation & Aquatic Safety**

Test Procedure: Hach Reactor Digestion method for Waste Water and Sea Water. Hach Reactor Digestion Method is a semi-micro adaptation of the Standard Methods.

*Results of Tornado Testing:* Tornado was found to be 100% Biodegradable.

COD = Low Detectable Limits

BOD = No Detectable Limits

**NON-Regulated**

DOT, TDG, IMO, IATA, IMDG, SARA 313 311-312, California Prop 65

**FDA**

Approved as Safe (GRAS)

**USDA Authorization**

A1, A2, A3, A4, A7, A8, C2, G6 & G7

**RESEARCH & DEVELOPMENT**

Power Kleen Corporation maintains a fully equipped laboratory and a chemist on hand at all times. We not only maintain the superior level of quality set for our products but continually strive to develop cleaning solutions for the future.

**PRODUCT QUALITY**

**TORNADO** is strictly monitored by both Peach State Laboratories & Power Kleen Corporation. Each batch of **TORNADO** produced is checked for quality by Peach State and then again by Power Kleen before packaging. Random samples are also taken from the field every month and are tested again by both companies. Products are checked for quality, contamination, and tampering.

**TECHNICAL DATA**

Phosphoric Acid:	None
Muriatic Acid:	None
Hydrochloric Acid:	None
Sulfuric Acid:	None
Hydrofluoric Acid:	None
Nitrate Level:	None
Rinse Additives:	Positive
Detergent Package:	Positive
Surfactant Package:	Positive
Solvent Package:	Positive
Emulsifiers:	Positive
Shipper Regulations:	None
Weight:	9.09
Odor:	Mild

**Characteristic**

Color:	Clear Amber
Viscosity:	10 CPS
Flash Point:	None
Freezing:	-37° F
Stability:	18 mths
Carcinogens:	None
Toxicity:	Non Toxic
Biodegradable:	100%
Solubility:	100%
Volatility:	None

**DISSOLVING PROPERTIES**

Calcium Oxide Dissolving Properties with 3 Minute Exposure:

TORNADO	10.3
Phosphoric Acid	0.9
Citric	0.0
Lactic	0.2
Acetic	0.1
Glycolic	0.2
Oxalic	0.0
Malic	0.4

*Test Conditions:*

200 Grams of 5% active solution,  
1 Calcium Oxide Cube,  
3 Minutes @ 70° F