



TURI SURFACE CLEANING LABORATORY CLEANING CHEMICAL QUESTIONNAIRE

See letter for submission instructions.

Material Safety Data Sheet (MSDS)
MUST Be Attached

(and Technical Data Sheet, if available)

out AZ

1. Product/Trade Name (Please use a separate questionnaire for each cleaning chemical you want listed in the Director

AK 6215

Generic Chemical Family: Alkaline Detergent

Meets Specified Standard(s): ASTM: _____ Mil Spec: _____ FDA: _____ Other: _____

Primary Cleaner Classification (Check only one):

- Acidic Aqueous
- Neutral Aqueous
- Alkaline Aqueous
- Caustic
- Semi-Aqueous
- Terpene
- Petroleum distillate
- Organic
- Powder detergent
- Enzymatic/ Microbial
- Blasting
- Extracting
- HCFC
- Alcohol
- Other: _____

2. Chemical Constituents (Check all that apply & specify) Example Builder: Sodium Hydroxide 50% (as Concentrate)

- Cleaner Containing: At Least Some Water (_____ %) OR No/Minimal Water
- Builder: Blend
 - Surfactant: Anionic
 - Emulsifier: _____
 - Saponifier: _____
 - Other: _____
 - Rinse aid/Silicate: _____
 - Water conditioner/Sequestering/Chelating agent: _____
 - Corrosion inhibitor/Rust prohibitor: _____
 - Anti-microbial: _____
 - Supercritical fluid: _____
 - Blasting medium: _____
 - Other: _____

3. Industrial Applications (Number all that apply, Most Used = 1)

- Aerospace/Military
- Cleanrooms
- Basic Electronics
- Medical
- Metal Finishing
- Metal Fabrication
- Optics
- Painting
- PCBs
- Plastics
- Precision Instruments
- Printing
- Semiconductors
- General Cleaning (floors, etc.)
- Maint./Repair (engines, etc.)
- Other: _____

4. Contaminant Removal (Check all that apply & specify, if possible) Example Coatings Conformal

- Adhesives
- Buffing/polishing compounds
- Carbon deposits
- Coatings
- Cutting/tapping fluids
- Fluxes
- Greases
- Inks
- Lubricating/lapping oils
- Mold releases/Silicones
- Paints
- Resins/Rosins
- Rust/Scale
- Waxes
- Other: _____

5. Substrate Compatibility (Check all that apply)

- Aluminum
- Alloys (Specify): Zinc
- Brass
- Carbon steel
- Ceramics
- Copper
- Galvanized steel
- Glass/quartz
- Gold
- Plastic (Specify): _____
- Rubber
- Stainless steel
- Steel
- Sterling/silver
- Nickel
- Tin
- Other: _____

6. Equipment Compatibility (Check all that apply & specify, if applicable)

- Cold Solvent
- Vapor Degreasing
- Manual Wipe
- Immersion/Soak
- Mechanical Agitation
- Ultrasonics
- Media Blasting
- Supercritical Extract
- Low Pressure Spray 15-25 psi-range
- High Pressure Spray _____ psi-range
- Other: _____

7. Recommended Concentrations: 1-4% Percent Volume (range)

Recommended Temperatures: 110-160° Deg. F (range)

8. Important Physical and Chemical Properties:

Maximum theoretical VOC content: None

GWP: _____ Surface Tension: _____ Density: 1.208

ODP: _____ Kb value: _____ Other: _____

9. Cost per pound/gallon: Smallest-unit price: _____ Large-volume price: _____ US:

10. Additional pertinent information not found elsewhere on this form or MSDS:

TECHNICAL DATA SHEET

Bulletin No. 50-57c

AK-6215

GENERAL DESCRIPTION

Calgon's **AK-6215** is a liquid, aluminum-safe alkaline cleaner for use in recirculating spray washers or immersion systems. Due to its highly effective blend of detergents, corrosion inhibitors, water conditioners and builders, **AK-6215** emulsifies, saponifies, and disperses soils for easy removal and then keeps them dispersed for easy and complete rinsing. Contains phosphates for excellent particle soil removal and scale prevention, even in hard water areas.

FEATURES

- Soft metal corrosion inhibitor makes **AK-6215** safe for use on soft metals such as aluminum and zinc, as well as ferrous and other non-ferrous metals and plastics
- Phosphate-based sequestering agents tie up water hardness and maximize detergent activity
- Blend of multiple surfactants allows use from room temperature through 160°F in immersion systems. (Maintain 110°F minimum for spray systems)

BENEFITS

- Eliminates the need to inventory and use multiple products
- Cleaner parts and better rinsing characteristics are achieved at lower use concentrations
- Potential energy savings

PHYSICAL PROPERTIES

General Characteristic	Alkaline Cleaner
Color	Yellowish/Green
Form	Liquid
Specific Gravity	1.208
Pounds/Gallon	10.06
pH (1% Solution)	11.4 - 11.7
Solubility	Complete
Foam	Low
Flash Point	None
Phosphates	Yes
Biodegradable Surfactants	Yes
Recommended Diluents	Water

DIRECTIONS FOR USE

For most general cleaning operations, 1 to 4 ounces per gallon is recommended. For heavier industrial applications, concentrations of up to 8 ounces of **AK-6215** per gallon may be needed, depending on water hardness, soil load, type of soil, temperature, etc. Keep solution at a temperature of 110° to 160°F for use in recirculating spray washers. Aluminum and other soft metals are best washed at 160°F or lower to prevent staining.

Feeding and Control

Titrate for solution concentration using Test Kit K-0195 (Indicator A and drops of Acid 5)

<u>Concentration Ounces/Gallon</u>	<u>Drops of Acid 5</u>
1	3
2	5
3	7
4	8
5	10
6	11

Storage

Suitable for general indoor storage at temperatures above freezing and below 100°F. Keep container closed when not in use. Keep from freezing.

SERVICE

Routine

Service is one of the most important insurances for consistent quality performance of your operation. A Calgon Customer Specialist will tailor a service program for your facility that will provide effective and trouble-free operations.



CALGON CORPORATION

TECHNICAL DATA SHEET

Bulletin No. 50-57b

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