

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: AC-85

Product Number: 9585 and other versions of 9585

Manufacturer: Arcot Manufacturing Corporation, 2950 Mowery Road, Houston, Texas, U.S.A. 77045

Emergency Response Telephone: 1-800-633-8253 (Account #9390)

Arcot Customer Service Telephone: 713-413-9700

Website: www.ArcotManufacturing.com

Recommended Use: Cleaning chemical for degreasing of hard surfaces

Restrictions On Use: Do not use on aluminum or other soft metals, painted surfaces, asphalt, tile or linoleum. Do not mix with other chemicals. Corrosive.

2. HAZARDS IDENTIFICATION

GHS Hazard Classification (in accordance with 29 CFR 1910, OSHA HCS):

Corrosive to metals - Category 1

Acute toxicity, Oral - Category 4

Skin corrosion/irritation - Category 1A

Eye damage/irritation - Category 1

Specific target organ toxicity, single exposure - Category 3 (respiratory irritation)

Acute aquatic toxicity - Category 3

Signal Word: **DANGER!** CORROSIVE



Hazard Statements:

H290: May be corrosive to metals.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H402: Harmful to aquatic life in concentrated form.

Precautionary statements:

Prevention:

P233: Keep container tightly closed.

P234: Keep only in original container.

P260: Do not breathe fumes, mist, vapors or spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves, protective clothing and eye protection or face protection.

Response:

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301 + P330 + P331 + P312: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a doctor if you feel unwell.

P303 + P361 + P353 + P363: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

P304 + P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P310: Immediately call a doctor.

P321: Specific treatment (see supplemental first aid instructions on the label and in section 4).

P390: Absorb spillage to prevent material damage.

Storage:

P405: Store locked up.

P406: Store in a corrosive resistant container with a resistant inner liner.

P403: Store in a well-ventilated place.

Store away from incompatible materials.

Disposal:

P501: Dispose of contents and container to an approved waste disposal plant in accordance with applicable local, state, federal and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Concentration
Water	7732-18-5	Proprietary
Sodium Hydroxide	1310-73-2	Proprietary (<10%)
2-butoxyethanol	111-76-2	Proprietary (<10%)
Ammonium Hydroxide	1336-21-6	Proprietary (<5%)
Other ingredients are nonhazardous and considered trade secrets. The exact percentage of composition has been withheld as a trade secret. This SDS is used for a group of substantially similar mixtures.		

4. FIRST-AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: Move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash skin with soap and plenty of water. Consult a physician. Wash contaminated clothing before reuse.

In case of eye contact: Immediately and thoroughly flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If easy to do, remove contact lenses. Continue rinsing eyes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. If conscious and alert, rinse mouth with water and drink large quantities of water. Follow with citrus juice. Do not induce vomiting. Consult a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed: Corrosive.

Causes serious eye damage and pain. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result.

Burning pain and severe corrosive skin damage.

Irritation of nose and throat. May cause respiratory irritation.

Harmful if swallowed. May be fatal if swallowed and enters airways.

Treatment: Treat symptomatically. If any irritation or symptoms persists, seek medical attention immediately.

5. FIRE-FIGHTING MEASURES

Specific hazards that may develop from this product during fire: Hazardous decomposition and byproducts includes ammonia and may include carbon oxides (such as carbon monoxide and carbon dioxide), nitrogen oxides and forms of peroxides of unknown stability.

Suitable extinguishing media: Product is not flammable. Water spray, alcohol-resistant foam, dry chemical or carbon dioxide may be used for surrounding fires.

Advice for firefighters: Wear self-contained breathing apparatus and full protective clothing in case of fire.

Precautions for firefighters: Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk.

General advice: Avoid product contact with aluminum, zinc, tin and their alloys since product may react with these metals generating hydrogen gas which is flammable and/or explosive when ignited. Do not mix with strong acids to prevent violent or explosive reaction.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. See section 8 for personal protection. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Methods and materials for containment and cleanup procedures:

Large Spills: Stop the flow of material, if this is safe. Completely contain spilled material with dikes, sandbags, etc., where this is possible. Spilled material may be removed with a vacuum truck. Remaining material may be diluted with water and neutralized with dilute acid, then absorbed and collected. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Following product recovery, flush area with water.

Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. Keep in suitable, closed containers for disposal. Dispose of as hazardous waste. For waste disposal, see Section 13 of the SDS.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Discharge into the environment must be avoided.

7. HANDLING AND STORAGE

Precautions for safe handling: See Sections 2 and 8. Read the SDS and label carefully and completely before handling this product. Do not get in eyes, on skin or on clothing. Do not taste or swallow. Do not breathe mist or vapor. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage systems should be compatible and corrosion resistant. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Observe good hygiene practices. Do not eat, drink or smoke where the product is being used. Wash thoroughly after handling.

Conditions for safe storage: Keep containers tightly closed, properly labeled and upright to prevent leakage. Store in corrosive resistant containers. Store in a cool, dry, shaded and well-ventilated place away from sunlight and extreme temperatures. Store at temperatures between 55°F and 80°F. Containers which are opened must be carefully resealed. Do not mix with other chemicals. Store away from acids and other incompatible materials (see section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Component	OSHA PEL, TWA	ACGIH TLV, TWA	NIOSH, TWA
Sodium hydroxide	2 mg/m ³	2 mg/m ³	2 mg/m ³
2-butoxyethanol	50 ppm or 240 mg/m ³	20 ppm	5 ppm or 24 mg/m ³
Ammonium Hydroxide	50 ppm or 35 mg/m ³	25 ppm	25 ppm or 18 mg/m ³

Appropriate engineering controls: Provide sufficient mechanical ventilation to maintain airborne levels below recommended exposure limits.

Personal Protective Equipment (PPE):

Eye Protection: Wear chemical safety goggles with a face shield to protect against eye and skin contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Contaminated clothing should be removed, then discarded or laundered.

Hand Protection: Wear appropriate impermeable, chemical-resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands after handling this product.

Protective Material Types: Natural rubber, Neoprene or Nitrile with minimum layer thickness of 0.11 mm and break through time of 480 minutes.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator with organic vapor cartridges as a backup to engineering controls. An NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Handle in accordance with good hygiene and safety practice. Do not eat, drink or smoke where the product is being used. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: liquid Color: clear colorless or purple
Odor	pungent ammonia
Odor Threshold	No data available
pH	13
Freezing point	approximately 32°F
Initial boiling point	No data available
Flash point	No data available (Not Flammable)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	1 g/mL (8.4 Lb./Gal.) at 25 °C (77 °F)
Water solubility	completely soluble
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressures in original containers. Contact with certain metals such as aluminum, zinc and tin may release flammable hydrogen gas. Mixing with water, acid or incompatible materials may cause splattering and release of large amounts of heat. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Corrosive to aluminum, tin, zinc, copper and most alloys in which they are present including brass and bronze. Corrosive to steels at elevated temperatures above 40°C (104°F).

Incompatible materials: oxidizing agents, organic materials, chlorinated solvents, acids, phosphorus, chlorine, mercury, bromide, calcium iodine, silver oxide, aluminum, zinc, tin, copper, lead, and other alkali sensitive metals or alloys. Initiates or catalyzes violent polymerization of acetaldehyde, acrolein or acrylonitrile.

Hazardous decomposition products: Ammonia. Contact with metals (aluminum, zinc, tin) and sodium tetrahydroborate liberates hydrogen gas. Toxic fumes of sodium oxide. Nitrogen oxides. In the event of fire, see section 5.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:

Ingestion: Causes digestive tract burns. Harmful if swallowed.

Inhalation: May cause irritation and burns to the respiratory system.

Skin contact: Causes severe skin burns.

Eye contact: Causes severe eye burns. Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics:

Exposure symptoms may include stinging, tearing, redness, swelling, blurred vision, burning sensation, cough, wheezing, laryngitis, shortness of breath, spasm, inflammation and edema of the larynx, inflammation and edema of the bronchi, pulmonary edema and pneumonitis. Vapors may cause headache, fatigue, dizziness and central nervous system effects. After exposure, there may be a time delay before irritation and other effects occur. Corrosive to the skin, eyes, and mucous membranes. May cause severe burns and permanent damage to any tissue with which it comes into contact. Inhalation will cause severe irritation and possible burns. Skin contact may cause severe irritation, burning pain and severe corrosion of tissue. Repeated exposure may cause dermatitis. Eye contact causes severe irritation and corrosion with possible corneal damage and blindness. Ingestion may cause irritation, corrosion, ulceration, nausea and vomiting. Prolonged exposure may cause chronic effects.

Information on toxicological effects: Acute toxicity. Harmful if swallowed.

Germ cell mutagenicity: No data available

Carcinogenicity: This product is not classified as a carcinogen by NTP, IARC, ACGIH or OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Additional Information: RTECS: Not available

12. ECOLOGICAL INFORMATION

Aquatic toxicity: no data available for this product. In concentrated form, due to its high pH, this product may

be harmful to aquatic organisms. Avoid release of unused, concentrated product into the environment.

Biodegradation: no data available for this product. The organic ingredients of this product are biodegradable. Inorganic material are not subject to biodegradation.

Persistence: no data available for this product. Most of the ingredients of this mixture are believed to either be biodegradable or exist in the disassociated state in the environment.

Bioaccumulative potential: no data available for this product. Based on ingredient studies, this product is not expected to bioconcentrate in organisms.

Mobility in soil: no data available for this product.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

See section 8.

Disposal Instructions: Collect and reclaim or dispose in sealed, corrosive resistant containers such as HDPE containers through a licensed disposal company. Unused product and its container must be disposed of as hazardous waste. Product is highly alkaline. It may be neutralized using a weak acid. Do not allow this material to drain into sewers or water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents and container in accordance with local, regional, national and international regulations.

Contaminated packaging: If emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT (US): UN1760, Corrosive liquids, n.o.s. (contains Sodium hydroxide solution), 8, PGII.

Inner packaging of < 0.3 Gallons is considered Limited Quantities and is excepted from DOT regulations.

Reportable Quantity (RQ): 1000 Lb.

Poison Inhalation Hazard: No

Ground transport only. Do not ship via air.

15. REGULATORY INFORMATION

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA 302 Components (Extremely Hazardous Substances)

None of the ingredients are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This product contains 2-butoxyethanol (Glycol Ether Category).

SARA 311/312 Hazards

Acute (Immediate) Health Hazard. Chronic (Delayed) Health Hazard.

CERCLA Hazardous Substance List (40 CFR 302.4):

Sodium hydroxide (CAS 1310-73-2) is listed with Reportable Quantity of 1000 Lb.

Ammonium Hydroxide (CAS 1336-21-6) is listed with Reportable Quantity of 1000 Lb.

16. OTHER INFORMATION

HMIS & NFPA Ratings: Health = 3 Fire = 0 Reactivity = 1

HMIS & NFPA ratings involve data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists

CAS = Chemical Abstract Service

GHS = Globally Harmonized System

HCS = Hazard Communication Standard

NIOSH = National Institute for Occupational Safety & Health

PEL = Permissible Exposure Limit

RTECS = Registry of Toxic Effects of Chemical Substances

STEL = Short Term Exposure Limit

TLV = Threshold Limit Values

TWA = Time Weighted Average limit or ceilings (C) (exposure limit)

DISCLAIMER: The information contained herein is based upon data obtained from sources believed to be reliable and reflects our best professional judgment. Since it is impossible to anticipate all of the conditions under which our products may be used, we do not guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his or her particular purpose and should comply with all federal, state and local regulations. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. We shall not be held liable for any damage resulting from handling or from contact with the above product or from improper use of our products. We do not provide any warranties, expressed or implied, and do not assume any responsibility for the accuracy or completeness of the data contained herein. This information is offered for your information, consideration, and investigation. You should satisfy yourself that you have all current data relevant to your particular use. We update SDS and labels on a regular basis. Please do not hesitate to contact us for current information.

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