



J. I. Baker
 A Division of Mallinckrodt Baker, Inc.
 222 Red School Lane
 Phillipsburg, NJ 08865
 24-Hour Emergency Telephone 908-859-2151
 National Response Center 800-424-8802
 Chemtrec 800-424-9300

National Response In Canada
 CANUTEC 613-996-6666
 Outside U.S. and Canada
 Chemtrec 202-483-7616

MATERIAL SAFETY DATA SHEET

FICHE
 SIGNALÉTIQUE

HOJAS DE DATOS
 DE SEGURIDAD

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

B0033 -06 JTB-100 BAKER CLEAN (Patented)
 Effective: 07/14/95

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Mallinckrodt Baker, Inc., 222 Red School Lane, Phillipsburg, NJ 08865

 SECTION I - PRODUCT IDENTIFICATION

Product Name: **JTB-100 BAKER CLEAN** (Patented)
 Common Synonyms: N/A
 Chemical Family: Aqueous Solutions
 Formula: N/A
 Formula Wt.: N/A
 CAS No.: N/A
 NIOSH/RTECS No.: N/A
 Product Use: Process Chemical
 Product Codes: 6430,6420,6420

 PRECAUTIONARY LABELING

BAKER SAF-T-DATA* System

HEALTH 2 MODERATE	FLAMMABILITY 0 NONE	REACTIVITY 0 NONE	CONTACT  3 SEVERE
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Laboratory Protective Equipment

 GOGGLES & SHIELD	 LAB COAT & APRON	 VENT HOOD	 PROPER GLOVES
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U.S. Precautionary Labeling

POISON! DANGER!
 CORROSIVE LIQUID. CAUSES SEVERE EYE IRRITATION OR BURNS. MAY CAUSE ALLERGIC REACTION. AVOID BREATHING SOLUTION MIST. HARMFUL IF INHALED. MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH SKIN.

Do not get in eyes, on skin, on clothing. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling. In case of spill, carefully neutralize spill with dilute HCL. Flush spill area with water. Prevent run-off from entering drains, sewers, or streams.

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PRECAUTIONARY LABELING (CONTINUED)

International Labeling

Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

SAF-T-DATA* Storage Color Code: White (corrosive)

SECTION II - COMPONENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>OSHA/PEL</u>	<u>ACGIH/TLV</u>
Water	7732-18-5	79-99	N/E	N/E
Proprietary CompTSRN4314011-5036p	N/A	<20	N/E	N/E
Proprietary CompTSRN4314011-5037p	N/A	<10	N/E	N/E

Trade Secret Registry Number 004314011-5036p is for Alkylammonium Hydroxide
 Trade Secret Registry Number 004314011-5037p is for the Carboxylate Buffer System.

SECTION III - PHYSICAL DATA

Boiling Point: 96°C (204°F)
 (at 760 mm Hg) Vapor Pressure (mmHg): N/A

Melting Point: 0°C (32°F)
 (at 760 mm Hg) Vapor Density (air=1): N/A

Specific Gravity: 1.02
 (H₂O=1) Evaporation Rate: N/A

Solubility(H₂O): Complete (100%) % Volatiles by Volume: N/A

pH: 9.6

Odor Threshold (ppm): N/A Physical State: Liquid

Coefficient Water/Oil Distribution: N/A

Appearance & Odor: Clear, colorless liquid. Amine-like odor.

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 SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup): N/A

Autoignition Temperature: N/A

Flammable Limits: Upper - N/A Lower - N/A

Fire Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures

Wear S.C.B.A. Avoid splashing on skin or clothing.

Unusual Fire & Explosion Hazards

None identified.

Toxic Gases Produced

carbon monoxide, oxides of nitrogen, alcohols, amines

Explosion Data-Sensitivity to Mechanical Impact

None identified.

Explosion Data-Sensitivity to Static Discharge

None identified.

 SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): Not Established

Short-Term Exposure Limit (STEL): Not Established

Permissible Exposure Limit (PEL): Not Established

Toxicity of components

Intraperitoneal Mouse LD₅₀ for Water 190 g/kg

Intravenous Mouse LD₅₀ for Water 25 g/kg

Oral Rat LD₅₀ for Proprietary CompTSRN4314011-5036p 1667 mg/kg

Carcinogenicity: NTP: No IARC: No Z List: No OSHA Reg: No

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 SECTION 0 - HEALTH HAZARD DATA (CONTINUED)

Carcinogenicity
 None identified.

Reproductive Effects
 None identified.

Effects of Overexposure

- INHALATION: Solution mists are highly corrosive to mucous membrane.
- SKIN CONTACT: Highly corrosive to skin. Causes alkali burns, and severe irritation, may be fatal.
- EYE CONTACT: Highly corrosive to eyes. May cause severe eye irritation, and burns
- SKIN ABSORPTION: May cause death.
- INGESTION: Highly corrosive to mucous membrane, causes severe burns to mouth, throat, and stomach, may be fatal.
- CHRONIC EFFECTS: kidney damage, liver damage, dermatitis

Target Organs
 skin, liver, kidneys

Medical Conditions Generally Aggravated by Exposure
 skin disorders, eye disorders, liver or kidney disorders

Primary Routes of Entry
 inhalation, ingestion, skin contact, absorption

Emergency and First Aid Procedures

- INGESTION: CALL A PHYSICIAN. If swallowed, if conscious, Do NOT INDUCE VOMITING. Immediately give victim a large volume of water and milk.
- INHALATION: If the solution mist is inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.
- SKIN CONTACT: In case of contact, immediately flush skin with large amounts of water for at least 15 minutes. Remove all contaminated clothing and get medical attention.

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 SECTION U - HEALTH HAZARD DATA (CONTINUED)

EYE CONTACT: Immediately flush eyes with water and continue washing for a least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

Notes to Physician
 Treat as alkali burn.

SARA/TITLE III HAZARD CATEGORIES and LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No

Extremely Hazardous Substance: No
 CERCLA Hazardous Substance: No
 SARA 313 Toxic Chemicals: No
 TSCA Inventory: Yes

 SECTION VI - REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Will not occur
 Conditions to Avoid: heat, boiling temperatures.
 Incompatibles: strong acids
 Decomposition Products: carbon monoxide, oxides of nitrogen, alcohols, amines

 SECTION VII - SPILL & DISPOSAL PROCEDURES

Steps to be Taken in the Event of a Spill or Discharge

Wear self-contained breathing apparatus and full protective clothing.
 Stop leak if you can do so without risk. Ventilate area. Carefully neutralize spill with dilute HCl. Flush area with flooding amounts of water. (Use caution.)
 Prevent run-off from entering drains, sewers, or streams.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.



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 SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Material should be handled or transferred in an approved fume hood or with adequate general or local exhaust ventilation to keep mist levels as low as possible.

Respiratory Protection: A respirator with dust/mist filter is recommended. If airborne concentration exceeds capacity of respirator, a self-contained breathing apparatus is advised. Protective equipment should meet OSHA specifications.

Eye/Skin Protection: Rubber gloves. Face shield and goggles. Chemical resistant coveralls closed to neck, eyewash and safety shower available. Wash thoroughly after handling. Do not eat or drink while handling.

 SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA* Storage Color Code: White (corrosive)

Storage Requirements

Keep container tightly closed (readily absorbs CO₂ from the air). Do not expose to excessive heat. Protect from freezing.

Special Precautions

Do not get material on skin, in eyes, or on clothing. Wear protective clothing, chemical resistant gloves, safety goggles and wash thoroughly after handling. No food, beverages or tobacco products should be carried, stored or consumed where this chemical is used. Do not breathe mist. Wash all contaminated clothing before reuse.

 SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)

Proper Shipping Name: Corrosive liquids, n.o.s. (alkylammonium hydroxide)
 Hazard Class: 8
 UN/NA: UN1760 Packaging Group: II
 Labels: 8 CORROSIVE
 Regulatory References: 49CFR 172.101

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 SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION (CONTINUED)

International (I.M.O.)

Proper Shipping Name: Corrosive liquids, n.o.s. (alkylammonium hydroxide)
 Hazard Class: 8 I.M.O. Page: 8174
 UN: UN1760 Marine Pollutants: No Packaging Group: II
 Labels: 8 CORROSIVE
 Regulatory References: 49CFR PART 176; IMDG Code

AIR (I.C.A.O.)

Proper Shipping Name: Corrosive liquids, n.o.s. (alkylammonium hydroxide)
 Hazard Class: 8
 UN: UN1760 Packaging Group: II
 Labels: 8 CORROSIVE
 Regulatory References: 49CFR PART 175; ICAO== We believe the transportation

data and references contained herein to be factual and the opinion of qualified experts. The data is meant as a guide to the overall classification of the product and is not package size specific, nor should it be taken as a warranty or representation for which the company assumes legal responsibility.== The information is offered solely for your consideration, investigation, and verification. Any use of the information must be determined by the user to be in accordance with applicable Federal, State, and Local laws and regulations. See shipper requirements 49CFR 171.2, Certification 172.204, and employee training 49 CFR 173.1(b).

U.S. Customs Harmonization Number: 38239070005

NOTE: When handling liquid products, secondary protective containers must be used for carrying.

-N/A = Not Applicable, or not Available; -N/E = Not Established

 Mallinckrodt Baker provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.
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