

Substance key: BBG7070
Version 1

REVISION DATE: 08/02/2005
Print Date: 08/02/2005

Section 01 - Product Information

Identification of the company: AZ Electronic Materials USA Corp.
70 Meister Avenue
Somerville, NJ 08876
Telephone No.: 800-515-4164

Information on the substance/preparation
Product Safety: 908-429-3562

Emergency Tel. number: 800-424-9300 CHEMTREC

Trade name: AZ 400K DEVELOPER (US)

Section 02 - Composition information

Hazardous ingredients:

Chemical Name	CAS-no. (Trade secret no.)	Concentration [%]
Potassium borates	20786-60-1	< 15.00

Non-hazardous ingredients:

Chemical Name	CAS-no. (Trade secret no.)	Concentration [%]
Water	7732-18-5	> 85.00

Section 03 - Hazardous identification

Emergency overview: Causes severe eye irritation., Clear, colorless liquid., Noncombustible., No odor., Water soluble.

Expected route of entry

Skin contact: Contact with liquid and mist.

Ingestion: no

Inhalation: Inhalation of mist.

Eye contact: Contact with liquid and mist.

Skin absorption: no

Health effects of exposure:



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Component information:

Eye: Causes severe eye irritation. Skin: Non-irritating to skin. Inhalation: No hazard in normal industrial use. Ingestion: No hazard in normal industrial use. Reproductive and birth defects: Exposures having no adverse effect on the mother should have no effect on the fetus. Overexposure of male rats to borates causes damage to the testes and reduced sperm production. Systemic effects: Repeated high-level exposure causes kidney damage.

Aqueous solution containing 2-15% potassium borates.

Known effects on other illnesses: Preexisting skin and eye conditions may be aggravated.

Listed carcinogen: IARC: NO NTP: NO OSHA: NO

HMIS:

Health: 2 Flammability: 0 Reactivity: 0 Personal protection: X

NFPA:

Health: 2 Flammability: 0 Reactivity: 0 Special notice: NONE

Section 04 - First aid measures

After inhalation: Remove victim to fresh air.
Consult physician if irritation occurs.

After contact with skin: Consult physician if exposure is extensive or if irritation occurs.
Immediately remove contaminated clothing and wash affected area thoroughly with soap and water.

After contact with eyes: Flush thoroughly with water for 15 minutes. Get immediate medical help.

After ingestion: If person is conscious, give water or milk to dilute stomach contents.
Never give anything by mouth to an unconscious person.
Consult physician.
Do not induce vomiting.

Section 05 - Fire fighting measures

Flash point: Water-based material containing no combustible components.,
Compatible with extinguishing agents.

Section 06 - Accidental release measures

Steps to be taken in case of spill or leak: Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent, and place in a suitable container. Rinse residual with water.

Section 07 - Handling and Storage

Advice on safe handling:

Avoid contact with skin, eyes, and clothing.

Further information for storage conditions:

Store at appropriate temperature. See label for details.
Store in original container.
Keep from freezing.

Section 08 - Exposure Control / personal protection

Respiratory protection: Chemical cartridge respirator recommended for exposures exceeding TLV.

Hand protection: Rubber gloves.

Eye protection: Safety goggles or full face shield to protect against splashes.

Skin and body protection: Clothing suitable to prevent skin contact.

Additional advice on system design: Where mist is present, provide local exhaust ventilation or a respirator certified for mist by NIOSH.

Section 09 - Physical and chemical properties

Form: Liquid

Color: Clear

Odor: No odor.

pH: 12.9

Water solubility: soluble

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Density: 1.085 g/cm³
Boiling point: 100 °C
Loss on drying: 88 %
Phys.-chem./other information: Corrosive effect on aluminium.

Section 10 - Stability and reactivity

Hazardous reactions: Stable.
Hazardous polymerization: Will not occur.
Conditions to avoid: Avoid contact with strong acids. This product is expected, by test or analogy, to slowly attack aluminum and perhaps other nonferrous metals, releasing hydrogen gas.

Section 11 - Toxicological information

Acute oral toxicity: No data.
Skin irritation: rabbit
Method: Draize Method
non-irritant
Skin irritation: rabbit
D.O.T. four hour rabbit skin test of this product was negative for skin corrosion.
Eye irritation: rabbit eye
Method: Draize Method
severe eye irritant.

Section 12 - Ecological information

Section 13 - Disposal considerations

Product: Consult local, state, and federal regulations.
This product would be considered a hazardous waste under RCRA due to high pH unless neutralized prior to disposal.

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Section 14 - Transport information

Land transport

- *DOT:*
Not restricted

Sea transport

- *IMDG:*
UN-No: 1719
Proper technical name: Caustic alkali liquid, n.o.s. contains (Potassium borate)
Class: 8
Packaging group: III
Marine pollutant:
EmS: F-A, S-B
MFAG:
Labels: 8

Air transport

- *ICAO/IATA-DGR:*
UN/ID No.: UN 1719
Proper technical name: Caustic alkali liquid, n.o.s. contains (Potassium borate)
Class: 8
Packaging group: III
Labels: 8

Section 15 - Regulatory information

TSCA Status: All components of this product are listed on the TSCA Inventory.

SARA (section 311/312): Reactive hazard: no
Pressure hazard: no
Fire hazard: no
Immediate/acute: yes
Delayed/chronic: no

Section 16 - Other information

Label information

WARNING!

MATERIAL SAFETY DATA SHEET
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Alkaline solution. Contains material that may cause severe skin and eye irritation. May cause corneal damage. Dry or concentrated residue may be corrosive.

Avoid breathing mist, and avoid contact with skin, eyes, and clothing. Use only with adequate ventilation, and proper protective eyewear, gloves, and clothing. Wash thoroughly after handling. Keep container closed.

In case of contact, flush eyes with plenty of water for 15 minutes. Get medical attention immediately. Flush affected skin areas with water, and wash with mild soap and water. Remove contaminated clothing. If INHALED, remove individual to fresh air. If breathing is difficult, give oxygen. If ingested, give water or milk to dilute stomach contents. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately for ingestion or breathing problems or if skin contact is extensive.

If spilled, wear protective clothing, absorb with inert material, collect and place in a chemical waste container. Rinse residue with water.

Keep sealed in original container. Avoid freezing and direct sunlight. Product should be stored > 32 F (0 C). Empty container may contain harmful residue.

The solvent in this product is not photochemically reactive per Rule 102 of the California South Coast Air Quality Management District.

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications. (R) and TM indicate trademarks of AZ Electronic Materials USA Corp., its business partners and suppliers.
