SECTION 1. IDENTIFICATION

Product identifier
Product name : AZ KWIK Strip(TM) Remover

Product number : 184511

Recommended use of the chemical and restrictions on use
Recommended use : Intermediate for electronic industry

Details of the supplier of the safety data sheet


Emergency telephone : 1-800-424-9300 CHEMTREC (USA)
1-703-741-5970 CHEMTREC (International)
24 Hours/day; 7 Days/week

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Eye irritation : Category 2A
Reproductive toxicity : Category 1B

GHS label elements
Hazard pictograms : ⚠️ ⚠️

Signal Word : Danger
Hazard Statements : H319 Causes serious eye irritation.
H360FD May damage fertility. May damage the unborn child.
Precautionary Statements:

**Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ 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.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Storage:**
P405 Store locked up.

**Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Concentration (% w/w)</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>&gt;= 50 - &lt; 70</td>
<td>34590-94-8</td>
</tr>
<tr>
<td>Polar aprotic solvent</td>
<td>&gt;= 30 - &lt; 50</td>
<td>67829000004-7822P</td>
</tr>
<tr>
<td>Polyglycol ether</td>
<td>&gt;= 1 - &lt; 5</td>
<td>67829000004-5718P</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

If inhaled : fresh air. Call in physician.

In case of skin contact : Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
In case of eye contact: Rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed: immediately make victim drink water (two glasses at most). Consult a physician.

Most important symptoms and effects, both acute and delayed: irritable effects

Notes to physician: No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water
Foam
Carbon dioxide (CO2)
Dry powder

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards during fire fighting: Combustible.

Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapors possible in the event of fire.

Further information: Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and: Advice for non-emergency personnel: Do not breathe vapors, aerosols.
SAFETY DATA SHEET

AZ KWIK Strip(TM) Remover

Version
Revision Date: 27.12.2019
SDS Number: 70MDGM184511

emergency procedures
Avoid substance contact.
Ensure adequate ventilation.
Evacuate the danger area, observe emergency procedures, consult an expert.
Advice for emergency responders:
Protective equipment see section 8.
Indications about waste treatment see section 13.

Environmental precautions
Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills.
Observe possible material restrictions (see sections 7 and 10).
Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling
Provide sufficient air exchange and/or exhaust in work rooms.
Do not inhale substance/mixture.
Avoid generation of vapors/aerosols.
Observe label precautions.

Conditions for safe storage, including any incompatibilities
Storage conditions
Risks from decomposition products: see section 10
Tightly closed.
Keep in a well-ventilated place.
Keep locked up or in an area accessible only to qualified or authorized persons.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>34590-94-8</td>
<td>TWA</td>
<td>100 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>600 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm</td>
<td>NIOSH REL</td>
</tr>
</tbody>
</table>
Hazardous components without workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polar aprotic solvent</td>
<td>6782900000 4-7822P</td>
</tr>
<tr>
<td>Polyglycol ether</td>
<td>6782900000 4-5718P</td>
</tr>
</tbody>
</table>

Engineering measures: Ensure that eye flushing systems and safety showers are located close to the working place. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.

Personal protective equipment

Respiratory protection: required when vapors/aerosols are generated.

Hand protection Additional Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.

Eye protection: Safety glasses

Hygiene measures: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. Avoid contact with skin, eyes and clothing. Wash hands and face before breaks and immediately after handling the product. Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: liquid
Form: liquid
# SAFETY DATA SHEET

## AZ KWIK Strip(TM) Remover

**Version** 4.4  
**Revision Date:** 27.12.2019  
**SDS Number:** 70MDGM184511

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Color</td>
<td>clear yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>solvent</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>&lt; -10 °C</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>356 °F (180 °C)</td>
</tr>
<tr>
<td>Flash point</td>
<td>236 °F (113 °C)</td>
</tr>
<tr>
<td>Method: closed cup</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>ca.5 Torr</td>
</tr>
<tr>
<td>at 68 °F (20 °C)</td>
<td></td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Density</td>
<td>1.06 g/cm3</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available.</td>
</tr>
</tbody>
</table>
SECTION 10. STABILITY AND REACTIVITY

Reactivity: Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions: Hydrolyzes in presence of: Strong acids and strong bases

Conditions to avoid: Strong heating.

Incompatible materials: No information available

Hazardous decomposition products: In the event of fire: See section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Product

Carcinogenicity

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Likely route of exposure

Eye contact, Skin contact
Acute oral toxicity
Acute toxicity estimate: > 5,000 mg/kg
Calculation method

Acute inhalation toxicity
Symptoms: Possible symptoms:

Acute dermal toxicity
Acute toxicity estimate: > 5,000 mg/kg
Calculation method

Eye irritation
Mixture causes serious eye irritation.
Mixture causes serious eye irritation.
Teratogenicity / Reproductive toxicity:
May damage fertility. May damage the unborn child.

Experience with human exposure
Other Relevant Toxicity Information:
No toxicological testing was carried out on the preparation.
Other dangerous properties can not be excluded.; This substance should be handled with particular care.

Components

(2-methoxymethylethoxy)propanol (34590-94-8):

Acute oral toxicity
LD50 Rat: > 5,000 mg/kg
OECD Test Guideline 401 (ECHA)

Acute inhalation toxicity
LC50 Rat: 166 mg/l/275 ppm; 7 h; vapor
OECD Test Guideline 403

Acute dermal toxicity
LD50 Rabbit: 9,500 mg/kg
OECD Test Guideline 402 (ECHA)

Skin irritation
Rabbit
Result: No irritation
OECD Test Guideline 404 (ECHA)
Eye irritation
Rabbit
Result: slight irritation
Draize Test

Sensitization
Patch test: Human
Result: negative
(IUCLID)

Repeated dose toxicity
Rabbit
male and female
NOAEL: 2,850 mg/kg
OECD Test Guideline 411
(ECHA)

Germ cell mutagenicity
Genotoxicity in vitro
Ames test
Result: negative
(IUCLID)

Acute oral toxicity
LD50 Rat: 2,006 mg/kg

Acute inhalation toxicity
LC50 Rat: 12 mg/L; 4 h; aerosol (Regulation (EC) No 1272/2008, Annex VI) (ECHA)
Test substance: yes

Acute dermal toxicity
LD50 Rat: > 2,000 mg/kg (ECHA)

Skin irritation
Rabbit
Result: No irritation
(ECHA)

Eye irritation
Rabbit
Result: slight irritation
(ECHA)

Sensitization
Sensitization test: Guinea pig
Result: negative
Method: OECD Test Guideline 406

Repeated dose toxicity
Rat
male and female
Oral
28 d
daily
NOAEL: 200 mg/kg
(ECHA)

Guinea pig
inhalation (vapor)
90 - 110 d
daily
NOAEL: 0.159 mg/l
(ECHA)

Germ cell mutagenicity
Genotoxicity in vitro
Mutagenicity (mammal cell test):
MOUSE LYMPHOMA TEST
Result: negative
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
CMR effects

Teratogenicity:
Clear evidence of adverse effects on development, based on animal experiments.Reproductive toxicity:
Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.

Teratogenicity
Application Route: Oral
Rat
Number of exposures: daily
Method: OECD Test Guideline 414

Effects on fertility
Species: Rat, male and female
General Toxicity Parent: NOAEL: 200 mg/kg body weight
General Toxicity F1: NOAEL: 60 mg/kg body weight
Method: OECD Test Guideline 421
Remarks: Regarding the available data the classification criteria are not fulfilled.

Effects on fetal development
Species: Rat, female
Application Route: Oral
General Toxicity Maternal: NOAEL: 100 mg/kg body weight
Method: OECD Test Guideline 414

Polyglycol ether (67829000004-5718P):

Eye irritation
Result: Irreversible effects on the eye

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Product
Persistence and degradability
No information available.

**Bioaccumulative potential**
No information available.

**Mobility in soil**
No information available.

**Additional ecological information**
No ecological testing was carried out on the preparation. Discharge into the environment must be avoided.

**Components**

(2-methoxymethylethoxy)propanol (34590-94-8):

- **Toxicity to fish**
  static test LC50 Poecilia reticulata (guppy): > 1,000 mg/l; 96 h
  Analytical monitoring: yes
  OECD Test Guideline 203 (ECHA)

- **Toxicity to daphnia and other aquatic invertebrates**
  static test EC50 Daphnia magna (Water flea): 1,919 mg/l; 48 h
  OECD Test Guideline 202 (ECHA)

- **Toxicity to algae**
  static test ErC50 Pseudokirchneriella subcapitata (green algae): > 969 mg/l; 96 h
  Analytical monitoring: yes
  OECD Test Guideline 201 (ECHA)

- **Toxicity to bacteria**
  static test EC10 Pseudomonas putida: 4,168 mg/l; 18 h (ECHA)

**Biodegradability**
96 %; 28 d; aerobic
OECD Test Guideline 301F (ECHA)
Readily biodegradable.

**Biochemical Oxygen Demand (BOD)**
650 mg/g (20 d)
(External MSDS)

**Partition coefficient: n-octanol/water**
log Pow: 0.004 (25 °C)
OECD Test Guideline 107
Bioaccumulation is not expected.

**Surface tension**
68.7 mN/m
at 20 °C
Method: OECD Test Guideline 115
Polar aprotic solvent (67829000004-7822P):

Toxicity to fish
static test LC50 Oryzias latipes (Orange-red killifish): > 100 mg/l; 96 h
Analytical monitoring: yes
OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates
EC50 Daphnia magna (Water flea): 852 mg/l; 48 h
Analytical monitoring: yes
OECD Test Guideline 202 (ECHA)

NOEC Daphnia magna (Water flea): 171 mg/l; 48 h
Analytical monitoring: yes
OECD Test Guideline 202

Toxicity to algae
static test EC50 Pseudokirchneriella subcapitata (green algae): > 1,000 mg/l; 72 h
Analytical monitoring: yes
OECD Test Guideline 201

static test NOEC Pseudokirchneriella subcapitata (green algae): 556 mg/l; 72 h
Analytical monitoring: yes
OECD Test Guideline 201

Toxicity to bacteria
semi-static test NOEC activated sludge: 100 mg/l; 14 d (ECHA)

Biodegradability
10.1 %; 14 d; aerobic
OECD Test Guideline 301C
Not readily biodegradable.

Partition coefficient: n-octanol/water
log Pow: < 0 (20 °C)
OECD Test Guideline 117
Bioaccumulation is not expected.

Substance does not meets the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

Polyglycol ether (67829000004-5718P):

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Product Waste
Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned...
containers like the product itself.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

- Polar aprotic solvent
  - 67829000004-7822P

Clean Water Act
This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know
(2-methoxymethylethoxy)propanol 34590-94-8
Polar aprotic solvent

Pennsylvania Right To Know
(2-methoxy)methylethoxy)propanol
Polar aprotic solvent

New Jersey Right To Know
(2-methoxy)methylethoxy)propanol

California Prop. 65
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:
DSL : All components of this product are on the Canadian DSL
TSCA : All substances listed on the TSCA Active Inventory.

SECTION 16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.