

**AZ KWIK Strip(TM) Remover**Version  
4.4Revision Date:  
27.12.2019SDS Number:  
70MDGM184511**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**Company : EMD Performance Materials, an Affiliate of Merck KGaA,  
Darmstadt, Germany, 1200 Intrepid Avenue, Suite 300,  
Philadelphia, PA 19112, 1-888-367-3275,  
[www.emdgroup.com/electronics](http://www.emdgroup.com/electronics)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.

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## 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

**Hazardous ingredients**

Chemical name	Concentration (% w/w)	CAS-No.
(2-methoxymethylethoxy)propanol	>= 50 - < 70	34590-94-8
Polar aprotic solvent	>= 30 - < 50	67829000004-7822P
Polyglycol ether	>= 1 - < 5	67829000004-5718P

**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.

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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	:	irritant effects
Notes to physician	:	No information available.

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**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.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
(2-methoxymethylethoxy)propanol	34590-94-8	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		TWA	100 ppm 600 mg/m <sup>3</sup>	NIOSH REL
		STEL	150 ppm	NIOSH REL

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			900 mg/m <sup>3</sup>	
		TWA	100 ppm 600 mg/m <sup>3</sup>	OSHA Z-1
		TWA	100 ppm 600 mg/m <sup>3</sup>	OSHA P0
		STEL	150 ppm 900 mg/m <sup>3</sup>	OSHA P0

### Hazardous components without workplace control parameters

Components	CAS-No.
Polar aprotic solvent	6782900000 4-7822P
Polyglycol ether	6782900000 4-5718P

**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

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

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Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	No information available.
Oxidizing properties	No information available.

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**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 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.

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**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

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### *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)



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*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)

*Polar aprotic solvent (67829000004-7822P):**Acute oral toxicity*

LD50 Rat: 2,006 mg/kg

OECD Test Guideline 401 (Regulation (EC) No 1272/2008, Annex VI)

*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

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70MDGM184511NOAEL: 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

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**  
**Product****Persistence and degradability**

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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

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70MDGM184511*Polar aprotic solvent (67829000004-7822P):**Toxicity to fish*

static test LC50 Oryzias latipes (Orange-red killifish): &gt; 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): &gt; 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 meet 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

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containers like the product itself.

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**SECTION 14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

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**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 SOCM I 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

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Polar aprotic solvent

67829000004-7822P

**Pennsylvania Right To Know**

(2-methoxymethylethoxy)propanol

34590-94-8

Polar aprotic solvent

67829000004-7822P

**New Jersey Right To Know**

(2-methoxymethylethoxy)propanol

34590-94-8

**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.

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**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.