



**Distributor:** Mager Scientific  
1100 Baker Rd.  
P.O. Box 160  
Dexter MI 48130-0160

**Phone:** (734) 426-3885

**Distributor Product No.**

**AP-347      AP-348      AP-349**

**Manufacturer:** Eminess Technologies  
**Manufacturer Product No.:** Ultra-Sol 201A/280

Dear Customer:

In order to comply with the Hazard Communication Law which went into effect November 25, 1985, and the Globally Harmonized System (GHS) regulation update introduced by the Occupational Safety and Health Administration (OSHA) in 2015, attached is the safety data sheet pertaining to our product noted above.

Additional sheets are available upon request. Please feel free to contact us if we can be of further assistance.

Sincerely,

Mager Scientific, Inc.  
Customer Service

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

Trade Name : Ultra-Sol™ 201A/280

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the Substance/Mixture : Electronic industry  
Polishing agent for surfaces

**1.3 Details of the supplier of the safety data sheet**

Company : Eminess Technologies, Inc.  
7272 East Indian School Road  
Scottsdale, AZ 85251 USA

E-mail address : [techinfo@eminess.com](mailto:techinfo@eminess.com)

Responsible/issuing person : Product Engineering  
1-480-505-3409

**1.4 Emergency Telephone Number**

Emergency Telephone Number : As above or next toxicological information center

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**GHS Classification**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**2.2 Label elements**

**GHS Labeling**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**2.3 Other hazards**

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixtures**

**Non-Hazardous Ingredients**

Component	CAS-No	Weight Percent
Aluminum Oxide	1344-28-1	15 - 25
Water	7732-18-5	75 - 85

#### **4. FIRST AID MEASURES**

##### **4.1 Description of first aid measures**

- General advice : Remove soiled/soaked clothing immediately. If you do not feel well, seek medical attention (show the label where possible).
- Inhalation : If inhaled, move person to fresh air. If they are having difficulty breathing, give oxygen (if available). Consult a doctor if symptoms continue or get worse.
- Skin contact : In case of contact with skin, wash off immediately with soap and plenty of water. Remove all clothing including shoes. Consult a doctor if you develop skin irritation.
- Eye contact : Rinse the affected eye immediately with plenty of water while keeping the unaffected eye well protected. Consult a doctor if you develop eye irritation.
- Ingestion : Rinse mouth. Seek medical attention if symptoms occur.

#### **5. FIRE FIGHTING MEASURES**

##### **5.1 Extinguishing media**

- Suitable extinguishing media : Water spray jet; foam; dry powder; carbon dioxide; product itself is non-combustible; fire extinguishing method of surrounding areas must be discussed.

##### **5.2 Special hazards arising from the substance or mixture**

- Specific hazards during fire fighting : None known

##### **5.3 Advice for fire-fighters**

- Protective equipment : Closed - full protective clothing (coat and pants) including helmet. Use self-contained breathing apparatus.
- Further information : Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

#### **6. ACCIDENTAL RELEASE MEASURES**

##### **6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Refer to Section 8: Exposure Controls/Personal Protection.

##### **6.2 Environmental precautions**

- Environmental precautions : Do not allow entry to drains, waterways, or soil.

##### **6.3 Methods and materials for containment and cleaning up**

- Methods for cleaning up : Pick up with inert absorbent material. Keep in suitable, closed containers for disposal. Dispose of absorbed material in accordance with local regulations.

##### **6.4 Reference to other sections**

- Additional advice : Information regarding safe handling, see Section 7.  
Information regarding personal protective measures, see Section 8.  
Information regarding waste disposal, see Section 13.

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).  
 Wear respiratory protection when spraying.

Advice on protection against fire and explosion : Observe the general rules of industrial fire protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep only in unopened original container.  
 Use polyolefin containers.  
 Do not use steel containers.

Further information on storage conditions : Keep container tightly closed and dry in a cool, well-ventilated place. Protect against frost. The product after freezing is no longer usable.

Advice on common storage : Do not store or transport together with food stuffs.

**7.3 Specific end uses** : Determined by user

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Exposure Guidelines**

**Components with workplace control parameters**

Components	CAS-No	Control Parameters	Basis
Aluminum Oxide	1344-28-1	15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable fraction)	OSHA

**8.2 Exposure controls**

**Engineering measures**

Provide good ventilation of working area (local exhaust ventilation if necessary).

**Personal protective equipment**

Respiratory protection : Use respiratory protection in case of insufficient exhaust

Hand protection : Break through time: >10 min.  
 Glove thickness: > 0.4 mm  
 For short-term exposure (splash protection): Nitrile rubber gloves  
 Remarks: These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

Eye protection : Tightly fitting safety glasses

Skin and body protection : Protective clothing

Hygiene measures : When using do not eat, drink or smoke. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Remove and wash contaminated clothing before reuse.

Protective measures : Avoid contact with eyes and skin. Observe the usual precautions for handling chemicals.

**Environmental exposure controls**

General advice : Do not allow entry to drains, water courses or soil.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

**Appearance**

Form : Liquid  
Color : White  
Odor : Odorless

**Safety data**

Upper/lower flammability : Not determined  
Vapor pressure : Not determined  
Vapor density : Not determined  
pH : approx. 3.5 - 4.5 at 68 °F (20 °C)  
Relative density : Not determined  
Freezing point : approx. 32 °F (0 °C)  
Solubility(ies) : Miscible in all proportions  
Boiling point/Boiling range : approx. 212 °F (100 °C)  
Flash point : Water-based material containing no combustible components. Compatible with extinguishing agents.  
Evaporation rate : Not determined  
Flammability (solid, gas) : Not determined  
Partition coefficient:  
n-octanol/water : Not determined  
Auto-ignition temperature : Not determined  
Decomposition temperature : Not determined  
Viscosity : Not determined

**9.2 Other information**

No further relevant information available.

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Conditions to avoid : Protect from freezing or frost

**10.5 Incompatible materials**

Materials to avoid : No further relevant information available.

**10.6 Hazardous decomposition products**

Hazardous decomposition products : No decomposition if stored and applied as directed.

**Ultra-Sol™ 201A/280**

Printing Date: June 1, 2015

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Data for Aluminum Oxide (1344-28-1)**

Acute oral toxicity	: LD50 > 5000 mg/kg (rat)
Acute inhalation toxicity	: No further relevant information available.
Acute dermal toxicity	: No further relevant information available.
Skin irritation	: Prolonged and/or repeated skin contact may cause irritation.
Eye irritation	: Short time, reversible irritation

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Aquatic toxicity : No further relevant information available.

**12.2 Persistence and degradability**

Biodegradability : Organic portion of the material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Biodegradation may occur under anaerobic conditions (in the absence of oxygen).

**12.3 Bioaccumulative potential** : No further relevant information available.

**12.4 Mobility in soil** : No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

PBT: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.  
vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects**

No further relevant information available

Additional ecological information : No further relevant information available.

**13. DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Additional information	: Neutralize Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.
Contaminated packaging	: Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

**14. TRANSPORT INFORMATION**

DOT	: Not dangerous goods
IATA	: Not dangerous goods
IMDG	: Not dangerous goods
TDG	: Not dangerous goods

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

United States : The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has been carried out for the substance(s) that makes/make up this material or for the material itself.

**16. OTHER INFORMATION**

**Further information**

Further information : Observe national and local legal requirements

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