

## SECTION 1: IDENTIFICATION

**Product Trade Name:** CRYSTALCLEAR® RAPICLEAR™

**Date:** 10-13-2015

### MANUFACTURER/IMPORTER/SUPPLIER/DISTRIBUTOR INFORMATION:

**COMPANY NAME:** Airmax® Inc.  
**COMPANY ADDRESS:** P.O. Box 38,  
Romeo, Michigan 48065  
**COMPANY TELEPHONE:** Office hours (Mon - Fri)  
9:00 am to 5:00 pm  
(866) 424-7629  
**COMPANY CONTACT NAME:** Main Office  
**EMERGENCY PHONE NUMBER:** Poison Control 800-222-1222

## SECTION 2: HAZARD(S) IDENTIFICATION

**CLASSIFICATION:** Not regulated, No Hazard  
**LABELING:** Not regulated, No Hazard  
**OTHER HAZARDS:** Not regulated, No Hazard

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**MAIN CONSTITUENT:** Dialuminum Chloride Pentahydroxide  
**CAS NO:** 12042-91-0  
**EC NUMBER:** 234-933-1  
**REACH REGISTRATION NUMBER:** 01-2119533142-53-0013  
**PURITY:** 40%w/w  
**SYNONYMS:** Aluminum Chlorohydrate  
**OTHER CONSTITUENT:** Water (CAS no 7732-18-5, EC no 231-791-2)-60% w/w  
**IMPURITIES:** None  
**ADDITIVES:** None  
**HAZARD INGREDIENTS:** None  
**ADDITIONAL INFORMATION:** None

## SECTION 4: FIRST-AID MEASURES

**GENERAL INFORMATION:** Immediate medical attention is not necessary.  
**INHALATION:** Supply fresh air. Rinse mouth and nose with water. Contact a physician.  
**SKIN CONTACT:** Rinse with water. If symptoms persist, call a physician.  
**EYE CONTACT:** Rinse with plenty of lukewarm water, also under the eyelids. If symptoms persist, call a physician.  
**INGESTION:** Do NOT induce vomiting. Rinse mouth with water. Drink 1 or 2 glasses of water or milk. If symptoms persist, call a physician. Never give anything by mouth to an unconscious person.  
**SELF PROTECTION OF THE FIRST AIDER:** Direct contact with the product should be prevented or minimized. Wear gloves in a suitable material such as PVC, Neoprene or Natural rubber.

### INFORMATION TO PHYSICIAN

**SYMPTOMS:**  
**IF INHALED:** May cause mucous membrane irritation with cough and rhinitis.  
**IF ON SKIN:** May cause mild irritation dryness and dermatitis.  
**IF IN EYES:** May cause redness, conjunctivitis and short term mild irritation.  
**IF SWALLOWED:** May cause burning pain in mouth and throat.

## SECTION 5: FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
**UNSUITABLE EXTINGUISHING MEDIA:** None.  
**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** Hydrogen chloride may be released when heating above the decomposition temperature.

### SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

In the event of fire, wear self-contained breathing apparatus. Fire fighters must wear fire resistant personnel protective equipment

### ADDITIONAL INFORMATION:

None.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS:

Refer to protective measures listed in section "Section 7. Handling and Storage". Wear protective suit and boots. If aerosols or mist are formed, use half mask with combination filter B/P2.

### ENVIRONMENTAL PRECAUTIONS:

Cover the drains to prevent the product from entering the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

### METHODS FOR CLEANING UP:

Contain spills in dyke or use absorptive barriers. Remove larger spills using a vacuum truck. Must be disposed of in accordance with local and national regulations.

### ADDITIONAL INFORMATION:

Product is water-soluble and compatible with water treatment plants. Product reacts with soaps forming a hydroxide gel.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

The work place and work methods shall be organized in such a way that direct contact with the product is prevented or minimized.

### PROTECTIVE MEASURES:

Wear gloves in a suitable material such as PVC, Neoprene or Natural rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also consider the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time. Tightly fitted safety goggles must be worn.

### PREVENTION OF AEROSOL AND DUST GENERATION:

Material should be transferred in ways that do not create mists or aerosols.

### STORAGE:

Product should be stored in dry conditions above freezing and below high temperatures (not >60°C).

### TECHNICAL MEASURES:

Avoid incompatible materials including non acid-proof metals such as aluminum, copper and iron, bases, unalloyed steel and galvanized surfaces.

### PACKAGING MATERIALS:

Plastic (PE, PP, PVC), fiberglass-reinforced polyester, epoxy-coated concrete and titanium. High density PE is recommended.

### SPECIFIC END USE:

This product is intended to be used as an antiperspirant and is manufactured under pharmaceutical requirements in the U.S. May also be used in personal care products as a deodorant or an astringent. When used in these applications, the product should be handled as described above to minimize worker exposure to lungs, eyes and skin.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE LIMIT VALUES:

Occupational exposure limit is 2mg/m<sup>3</sup> as Aluminum for soluble Aluminum compounds. (OSHA TLV-TLW, ACGIH TLV-TLW, EH40, EU OEL, AGW).

### EXPOSURE CONTROLS

#### OCCUPATIONAL EXPOSURE CONTROLS:

#### TECHNICAL MEASURES TO PREVENT EXPOSURE:

Material transfer should be done under conditions of local exhaust ventilation to avoid breathing mist.

#### PERSONAL PROTECTIVE EQUIPMENT:

##### RESPIRATORY PROTECTION:

Dust mask. In absence of local exhaust ventilation, approved respirators are recommended.

##### HAND PROTECTION:

Wear gloves in a suitable material such as PVC, Neoprene or Natural rubber.

##### EYE PROTECTION:

Tightly fitting safety goggles must be worn.

##### SKIN PROTECTION:

Skin should be covered by clothing at a minimum. Avoid excessive skin contact.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	<b>PHYSICAL STATE:</b>	Solution
	<b>COLOR:</b>	White to light yellow
	<b>ODOR:</b>	Slight, characteristic
	<b>PH (20 °C):</b>	Approximately 4 in a 15% aqueous solution.
	<b>MELTING POINT/RANGE (0C):</b>	Not applicable.
	<b>BOILING POINT/RANGE (0C):</b>	110 - 115°C.
	<b>FLASH POINT (0C):</b>	None, product is not flammable.
	<b>IGNITION TEMPERATURE (0C):</b>	None, product is not flammable.
	<b>VAPOR PRESSURE (KPA):</b>	2.3 kPa
	<b>DENSITY (G/CM3):</b>	1.33 - 1.35 g/cm3
	<b>WATER SOLUBILITY (20 °C IN G/1):</b>	Fully soluble
	<b>VISCOSITY, DYNAMIC (MPA S):</b>	10 mPa s

## SECTION 10: STABILITY AND REACTIVITY

<b>INCOMPATIBLE MATERIALS:</b>	Will react with caustics to form aluminum hydroxides. Can corrode ordinary grades of steel.
<b>CONDITIONS TO AVOID:</b>	Excessive heating after water evaporation for long periods of time can result in the evolution of HCl.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	HCl can be evolved during high temperature heating for extended periods of time.

## SECTION 11: TOXICOLOGICAL INFORMATION

Product is not classified under either the Dangerous Substance Directive or GHS/CLP Regulation.

<b>ACUTE TOXICITY</b>	<b>ORAL:</b>	Not classified. Rat ingestion study, OECD 401, LD50 (rat) indicates > 2000 mg/kg.
	<b>DERMAL:</b>	Not classified. Rat dermal toxicity test, OECD 402, LD50 (rat) > 2000 mg/kg body weight
	<b>INHALATIVE:</b>	
<b>IRRITANT OR CORROSIVE EFFECTS</b>		
	<b>PRIMARY IRRITATION TO SKIN:</b>	Not classified. Negative results rabbit skin, OECD 404.
	<b>IRRITATION TO EYES:</b>	Not classified. Negative results rabbit eye, OECD 405.
	<b>SENSITIZATION:</b>	Not classified. Negative result for Aluminum Hydroxy Chloride, CAS 1327-41-9, read across.
	<b>SPECIFIC TARGET ORGAN TOXICITY (STOT):</b>	Not classified. No STOT identified in animal studies. Human effects can be related to systemic toxicity.
	<b>REPEATED DOSE TOXICITY:</b>	Not classified. Read across from chronic (1 year) toxicity study (oral, rat) with Al Citrate, OECD 426 and OECD 452. Read across from short term repeat dose toxicity study (rat) with Aluminum Hydroxy Chloride, CAS 1327-41-9.
	<b>CARCINOGENICITY:</b>	Not classified. No studies; none expected.
	<b>MUTAGENICITY/GENOTOXICITY:</b>	Not classified. Negative results for in-vitro mutagenicity testing.
	<b>TOXICITY FOR REPRODUCTION:</b>	Not classified. Read across from Aluminum Hydroxy Chloride reproductive I developmental toxicity screening test. NOAEL 1000 mg/kg/day (equivalent to 90 mg/kg bw/day At3+) and Aluminum Citrate one year developmental and chronic neurotoxicity study (oral, rat).

## SECTION 12: ECOLOGICAL INFORMATION

<b>ECOTOXICITY :</b>	Not classified. Zebra fish LC50 (96h) 100 - 500 mg/l (OECD 203), Daphnia Magna EC50 (48h) 397mg/l, EC50 (bacteria) > 1000 mg/l Fermentation tube test.
<b>MOBILITY:</b>	Not classified based on rapid hydrolysis and precipitation.
<b>PERSISTENCE AND DEGRADABILITY:</b>	Inorganic product, not degradable. Cannot be eliminated from water by biological purification processes.
<b>RESULTS OF PBT ASSESSMENT:</b>	Substance is not toxic.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>APPROPRIATE DISPOSAL / PRODUCT:</b>	Must be disposed of in accordance with local and national regulations.
<b>WASTE CODES   WASTE DESIGNATIONS ACCORDING TO EWC/AVV/U.S. EPA:</b>	Not applicable; material is not a hazardous waste.
<b>APPROPRIATE PACKAGING:</b>	Follow recommendations according to method of disposal and specific disposal facility.
<b>ADDITIONAL INFORMATION:</b>	None.

## SECTION 14: TRANSPORT INFORMATION

<b>LAND TRANSPORT (ADRJRID AND GGVS/GGVE):</b>	Not restricted. This is not a hazardous material for transportation as defined by USA Dept. of Transportation.
<b>MARITIME TRANSPORT (IMDG-CODE/GGVSEA):</b>	Not restricted. Not a marine pollutant.
<b>AIR TRANSPORT (ICAO-TI AND IATA/DGR):</b>	Not restricted.

## SECTION 15: REGULATORY INFORMATION

**EU REGULATIONS:** Not classified.

**RESTRICTIONS ON USE:** Maximum percent in an antiperspirant product is regulated.

### NATIONAL REGULATIONS

#### GERMANY

**WASSERGEFAHRDUNGSKLASSE (WATER HAZARD CLASS):**

Not a hazard.

#### UNITED STATES:

Antiperspirants are regulated by the FDA as an OTC pharmaceutical. See Antiperspirant Monograph for details on formulation, manufacture and labeling. Maximum percent in an antiperspirant product is regulated.

U.S.A. HMIS:  
U.S.A. NFPA:

Health Hazard: 2  
Health: 2

Fire Hazard: 0  
Fire: 0

Physical Hazard: 0  
Reactivity: 0

Personal Protection: B

#### OTHER COUNTRIES:

This product is regulated in Japan and Korea.

## SECTION 16: OTHER INFORMATION

### KEEP OUT OF REACH OF CHILDREN

*Although the information and recommendations set forth in this sheet are believed to be correct as of the date hereof, Airmax®, Inc. makes no representation as to the completeness or accuracy of such information and recommendations. Airmax®, Inc. shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon such information and recommendations. You are encouraged to advise anyone working with or exposed to such products of the information contained herein. No warranty, either express or implied, of merchantability or fitness or of any other nature with respect to the product or to the information and recommendations herein made hereunder.*