

SECTION 1 - IDENTIFICATION

Product Identifier: Mach 50

Product Use: Water Treatment Chemical

Common Names:

Meras Water Solutions
 4213 Technology Dr Suite A, E3-725
 Modesto, CA 95356
 USA
 (866)899-9762
 info@meras.com

24 Hr. Emergency #: ChemTrec (800) 424-9300

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:
 OSHA HCS (29 CFR 1910.1200) Not classified for dangerous supply/use

Signal Word: None

Hazard Statement(s):
 None

Precautionary Statements:

Avoid contact with skin and eyes.
 Wear protective gloves/eye protection.
 IF INHALED: Get medical advice/attention if you feel unwell.
 IF ON SKIN: Wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If irritation develops and persists, get medical attention.
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	CAS No.	Concentration (%)
Aluminum Chlorohydrate	12042-97-0	50%
Water	7732-18-5	50%

SECTION 4 - FIRST-AID MEASURES

Inhalation: Get medical advice/attention if you feel unwell.

Skin Contact Wash affected skin with soap and water. If irritation develops get medical attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

Ingestion: Call POISON CENTER or doctor/physician if you feel unwell.

Most Important Symptoms And Effects, Both Acute And Delayed: None

Indication Of Any Immediate medical attention needed. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Equipment: Non-combustible. As appropriate for surrounding fire.

Special Hazards Arising From The Substance Or Mixture: Combustion or thermal decomposition will evolve toxic and irritant vapours.

Special Protective Equipment And Precautions For Firefighters: A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, And Emergency Procedures: Avoid contact with skin and eyes. Wear protective gloves/eye protection.

Environmental Precautions: Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.

Methods And Materials For Containments And Cleaning Up: Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

Reference To Other Sections: None

SECTION 7 - HANDLING AND STORAGE

Handling Precautions: Avoid contact with skin and eyes.

Storage Requirements: Keep in a cool, well ventilated place. Store at temperatures not exceeding 50°C / 122 °F. Protect from sunlight.

Incompatible: This product should be stored away from sources of strong heat, oxidizing chemicals, and reducing agents.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Aluminum Chlorohydrate, as Al	12042-91-0	15 mg/m3 ^(T) 5 mg/m3 ^(R)	1 mg/m3 ^(R)	-----	-----	-----

- ^(T) Total Particulate; ^(R) Respirable Particulate

Recommended monitoring method NIOSH 7013 (Aluminum and compounds, as Al)
Exposure controls
Appropriate engineering controls Not normally required.

Personal protection equipment

- **Eye/face protection** Wear protective eye wear (goggles, face shield, or safety glasses).
- **Skin protection (Hand protection/ Other)** Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.
- **Respiratory protection** Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.
- **Thermal hazards** Not normally required. Use gloves with insulation for thermal protection, when needed.
- **Environmental Exposure Controls** Avoid release to the environment.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid	Vapor pressure (Pascal)	Similar to water
Color.	Almost colorless to pale yellow	Vapor Density (Air=1)	Similar to water
Odor	None	Density (g/ml)	1.34
Odor Threshold (ppm)	Not available	Solubility (Water)	Miscible
pH (Value) 4 - 5		Solubility (Other)	Not available
Melting Point (°C) / Freezing Point (°C)	- 5.5 (22 °F)	Auto Ignition Point (°C)	Non-combustible
Boiling point/boiling range (°C):	100 °C (212 °F)	Decomposition Temperature (°C)	Not available
Flash Point (°C)	Non-combustible	Kinematic Viscosity (cSt)	Similar to water
Evaporation Rate	Similar to water	Explosive properties	Not explosive
Flammability (solid, gas)	Not applicable	Oxidizing properties	Not oxidising
Explosive Limit Ranges	Non-combustible	Other information	Not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.
Chemical stability Stable.
Possibility of hazardous reactions None anticipated.
Conditions to avoid Incompatible materials.
Incompatible materials Substances that react with water or aluminum.
Hazardous decomposition product(s) None anticipated.

Hazardous Decomposition Products: No data available.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Aluminum Chlorohydrate (CAS No. 12042-91-0):

Acute toxicity Oral LD50 = 9187 mg/kg (Rat)
Dermal LD0 = >2000 mg/kg (Rat)

Irritation / Corrosivity Unlikely to cause eye irritation. Unlikely to cause skin irritation.

Sensitisation It is not a skin sensitiser.

Repeated dose toxicity Not to be expected.

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity Negative

Toxicity for reproduction Negative

Reproductive toxicity Not to be expected

Other information None known.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Short term LC50 (96 hr): 609 mg/l (Fathead minnow)
LC50 (48 hour): 397 mg/L (Daphnia magna)

Long Term Not available.

Persistence and degradability Not readily biodegradable.

Bioaccumulative potential The product has no potential for bioaccumulation.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not classified as PBT or vPvB.

Other adverse effects Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Water treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14 - TRANSPORTATION INFORMATION

	<u>U.S. DOT</u>	Sea transport <u>(IMDG)</u>	Air transport <u>(ICAO/IATA)</u>
UN number	Not classified as dangerous for transport.		
Proper Shipping Name			
Transport hazard class(es)			
Packing group			
Environmental hazards			
Special precautions for user			

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15 - REGULATORY INFORMATION

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-----	-----	-----

SARA 311/312 - Hazard Categories: None

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	-----	-----

SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	-----	-----	-----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None	-----	-----

SECTION 16 - OTHER INFORMATION

NFPA



NFPA Rating Explanation Guide					
RATING NUMBER	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD	RATING SYMBOL	SPECIAL HAZARD
4	Can be lethal	Will vaporize and readily burn at normal temperatures	May explode at normal temperatures and pressures	ALK	Alkaline
3	Can cause serious or permanent injury	Can be ignited under almost all ambient temperatures	May explode at high temperature or shock	ACID	Acidic
2	Can cause temporary incapacitation or residual injury	Must be heated or high ambient temperature to burn	Violent chemical change at high temperatures or pressures	COR	Corrosive
1	Can cause significant irritation	Must be preheated before ignition can occur	Normally stable. High temperatures make unstable	OX	Oxidizing
0	No hazard	Will not burn	Stable	☢	Radioactive
				W	Reacts violently or explosively with water
				W OX	Reacts violently or explosively with water and oxidizing

HMIS III

1	HEALTH
0	FLAMMABILITY
0	REACTIVITY
B	PERSONAL PROTECTION

PERSONAL PROTECTION INDEX													
A			G	+ +									
B	+		H	+ + +									
C	+ +		I	+ +									
D	+ +		J	+ + +									
E	+ +		K	+ + +									
F	+ + +		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions									
A		n		o		p		q		r		s	
t		u		w		y		z		Additional Information			
Safety Glasses		Splash Goggles		Face Shield & Eye Protection		Gloves		Boots		Synthetic Apron		Full Suit	
Dust Respirator		Vapor Respirator		Dust & Vapor Respirator		Full Face Respirator		Airline Hood or Mask					

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