

## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Chemical Name Aluminum chloride hydroxide sulfate

CAS No. 39290-78-3
Trade Name CoAg+ Plus
Product Code None

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

Identified Use(s) Water Treatment Chemical

Uses Advised Against None

Company Identification Manufactued for Water Maze by Norhstar Chemical Inc.

14200 SW Tualatin Sherwood Rd

Sherwood, OR 99140

Telephone (503) 625-3770 Fax (503) 625-1478

**Emergency telephone number** 

Emergency Phone No. CHEMTREC 24 hr. (800) 424-9300

## **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Label elements

Hazard Symbol

Met. Corr. 1; Eye Irrit. 2



**DANGER** 

Signal word(s)

Hazard Statement(s)

May be corrosive to metals.

Causes serious eye irritation.

Precautionary Statement(s) Keep only in original container.

Avoid contact with skin and eyes.

Wear protective gloves/eye protection.

Wash hands and exposed skin after use.

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.

Other hazards None

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# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredient(s)	% wt.*	CAS No.	Hazard classification
Aluminum chloride hydroxide sulfate	30 – 40 39290-78-3		Met. Corr. 1; H290
Aldifilitati chionde flydroxide suitate	30 – 40	39290-76-3	Eye Irrit. 2; H319
Proprietary Compound	5	Trade Secret	Aquatic Acute 3; H402
Proprietary Compound		Trade Secret	Aquatic Chronic 3; H412
Water	60 - 70	7732-18-5	Not classified as dangerous for supply/use.

**Additional Information -** Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below: **None** 

#### **SECTION 4: FIRST AID MEASURES**



Description of first aid measures

Inhalation Get medical advice/attention if you feel unwell.

Skin Contact Wash affected skin with soap and water. If irritation (redness, rash,

blistering) 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 a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and

delayed

Indication of any immediate medical attention and

special treatment needed

None

IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

## **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

-Suitable Extinguishing Media

-Unsuitable Extinguishing Media

Special hazards arising from the substance or

mixture

Advice for fire-fighters

Non-combustible. As appropriate for surrounding fire.

None anticipated.

Combustion or thermal decomposition will evolve toxic and irritant

vapours.

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

**Environmental precautions** 

Avoid contact with skin and eyes. Wear protective gloves/eye

Prevent liquid entering sewers, basements and work pits. Avoid

release to the environment.

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Methods and material for containment and cleaning up Cover spills with inert absorbent material. Transfer to a container for

disposal or recovery.

Reference to other sections None
Additional Information None

## **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

-Storage temperature Keep in a cool, well ventilated place. Store at temperatures not

exceeding 50°C / 122 °F. Protect from sunlight.

-Incompatible materials This product should be stored away from sources of strong heat,

oxidizing chemicals, and reducing agents.

Specific end use(s) Water Treatment Chemical

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Occupational Exposure Limits**

		(8hr TWA)		(STEL)		
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Aluminum chloride hydroxide sulfate, as Al	39290-78-3	15 mg/m3 <sup>(T)</sup> 5 mg/m3 <sup>(R)</sup>	1 mg/m3 <sup>(R)</sup>			

<sup>- (</sup>T) Total Particulate; (R) Respirable Particulate

Recommended monitoring method NIOSH 7013 (Aluminum and compounds, as AI)

**Exposure controls** 

Appropriate engineering controls Not normally required.

Personal protection equipment

Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other) Wear suitable gloves if prolonged skin contact is likely. Check with



Respiratory protection Normally no personal respiratory protection is necessary. In case of



insufficient ventilation, wear suitable respiratory equipment. Check with

Thermal hazards Not normally required. Use gloves with insulation for thermal protection,

protective equipment manufacturer's data.

protective equipment manufacturer's data.

when needed.

Environmental Exposure Controls Avoid release to the environment.

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# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance Liqui

Color. Almost colourless to pale yellow

Odor None

Odor Threshold (ppm) Not available pH (Value) 4.0 - 4.5 (15% w/w)

Melting Point (°C) / Freezing Point (°C)

12 (53.6 °F)

Boiling point/boiling range (°C):

100 °C (212 °F)

Flash Point (°C) Non-combustible **Evaporation Rate** Similar to water Flammability (solid, gas) Not applicable **Explosive Limit Ranges** Non-combustible Vapor pressure (Pascal) Similar to water Vapor Density (Air=1) Similar to water Density (g/ml) 1.20 - 1.24 Solubility (Water) Miscible

Solubility (Other)

Not available

Partition Coefficient (n-Octanol/water)

Not available

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Kinematic Viscosity (cSt)

Explosive properties

Oxidizing properties

Not explosive

Not oxidising

Other information Not available

# **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity** Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactionsNone anticipated.Conditions to avoidIncompatible materials.

Incompatible materials Substances that react with water or aluminum.

Hazardous decomposition product(s)

None anticipated.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes: Inhalation, Skin Contact, Eye Contact

Polyaluminum Hydroxychlorosulfate (CAS No. 39290-78-3):

Acute toxicity Oral LD50 > 5000 mg/kg (Rat)

Dermal LD50 >2000 mg/kg (Rat)

 Irritation / Corrosivity
 Causes serious eye 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 Not to be expected

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Reproductive toxicity Other information Not to be expected None known.

## **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Proprietary Compound (CAS No. Trade Secret):

Short term LC50 (96 hr): 10 - 100 mg/l (Danio rerio)

EC50 (48 hour): 38 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**

Waste 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: TRANSPORT INFORMATION**

	U.S. DOT	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	UN 1760	UN 1760	UN 1760
Proper Shipping Name	Corrosive liquids	, n.o.s. (Aluminum chloride hy	droxide sulfate), 8, III
Transport hazard class(es)	8	8	8
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Special precautions for user	None assigned	None assigned	None assigned

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:

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

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None		

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#### 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**

The following sections contain revisions or new statements: 1-16.

Date of preparation: May 19, 2015

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

#### Hazard Statement(s)

- H290: May be corrosive to metals.
- H319: Causes serious eye irritation.

Training advice: None.

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