# **HALLIBURTON**

# SAFETY DATA SHEET

Product Trade Name: PAX-XL60

Revision Date: 22-Oct-2018 Revision Number: 4

# 1. Identification

1.1. Product Identifier

Product Trade Name: PAX-XL60
Synonyms None
Chemical Family: Blend
Internal ID Code HM008138

1.2 Recommended use and restrictions on use

Application:Water ClarifierUses advised againstConsumer use

# 1.3 Manufacturer's Name and Contact Details

Manufacturer/Supplier Multi-Chem Group LLC

3000 N. Sam Houston Pkwy E., Houston, TX 77032

Phone: 1 281 871 4000

Halliburton Group Canada 645 - 7th Ave SW Suite 1800 Calgary, AB T2P 4G8 Canada

Telephone: 1-403-231-9300

Prepared By Chemical Stewardship

Telephone: 1-281-871-6107

e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone number:

**Emergency Telephone Number** 1-866-519-4752 or 1-760-476-3962

Global Incident Response Access Code: 334305

Contract Number: 14012

## 2. Hazards Identification

# 2.1 Classification in accordance with paragraph (d) of §1910.1200

Serious Eye Damage/Irritation	Category 1 - H318
Acute Aquatic Toxicity	Category 3 - H402
Substances/mixtures corrosive to metal	Category 1 - H290

## 2.2. Label Elements

#### **Hazard Pictograms**



Signal Word: Danger

**Hazard Statements** H290 - May be corrosive to metals

H318 - Causes serious eye damage

H402 - Harmful to aquatic life

**Precautionary Statements** 

**Prevention** P234 - Keep only in original packaging.

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment P280 - Wear 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

P310 - Immediately call a POISON CENTER or doctor/physician

P390 - Absorb spillage to prevent material damage

**Storage** P406 - Store in corrosive resistant container with a resistant inner liner.

**Disposal** P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

#### 2.3 Hazards not otherwise classified

None known

# 3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Aluminum chloride, basic	1327-41-9	30 - 60%	Eye Corr. 1 (H318)
			Aquatic Acute 3 (H402)
			Met. Corr. 1 (H290)

The exact percentage (concentration) of the composition has been withheld as proprietary.

# 4. First Aid Measures

#### 4.1. Description of first aid measures

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

Eyes Immediately flush eyes with large amounts of water for at least 30 minutes. Seek

prompt medical attention.

**Skin** Flush skin with large amounts of water. If irritation persists, get medical attention. **Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an

unconscious person. Obtain immediate medical attention.

#### 4.2 Most important symptoms/effects, acute and delayed

Causes severe eye irritation which may damage tissue.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. Fire-fighting measures

### 5.1. Extinguishing media

## Suitable Extinguishing Media

Water spray. Carbon dioxide (CO2). Foam. Dry powder

Extinguishing media which must not be used for safety reasons

None known.

#### 5.2 Specific hazards arising from the substance or mixture

Special exposure hazards in a fire

Decomposition in fire may produce harmful gases.

## 5.3 Special protective equipment and precautions for fire-fighters

Special protective equipment for firefighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

#### 6. Accidental release measures

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

Use appropriate protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Avoid breathing vapors.

See Section 8 for additional information

### 6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

## 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Neutralize with soda ash or other non-reactive alkaline.

# 7. Handling and storage

## 7.1. Precautions for safe handling

# **Handling Precautions**

Use appropriate protective equipment. Avoid contact with eyes, skin, or clothing. Ensure adequate ventilation. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

### **Storage Information**

Store in a well ventilated area. Product has a shelf life of 12 months. Store at temperatures not exceeding 0-30 °C/32-86 °F

## 8. Exposure Controls/Personal Protection

### 8.1 Occupational Exposure Limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Aluminum chloride, basic	1327-41-9	Not applicable	Not applicable

## 8.2 Appropriate engineering controls

Engineering Controls Ensure adequate vent

Ensure adequate ventilation, especially in confined areas

#### 8.3 Individual protection measures, such as personal protective equipment

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures,

the selection and proper use of personal protective equipment should be

determined by an industrial hygienist or other qualified professional based on the

specific application of this product.

occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or

other qualified professional.

Hand Protection Chemical-resistant protective gloves (EN 374) Suitable materials for longer, direct

contact (recommended: protection index 6, corresponding to > 480 minutes

permeation time as per EN 374):

**Skin Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron, rain

jacket, pants or coverall, as appropriate, to prevent skin contact.

**Eye Protection** Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles,

Face-shield.

Other Precautions Eyewash fountains and safety showers must be easily accessible.

# 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color Yellowish

Odor: Mild Odor No information available

Threshold:

<u>Property</u> <u>Values</u>

Remarks/ - Method

**pH:** ca. 1.5

Freezing Point / Range No data available / 32 °F

Melting Point / Range No data available

Pour Point / Range
No data available 0 °C 32 °F
Boiling Point / Range
100-120 °C / 212-248 °F

Flash Point

Flammability (solid, gas)

Upper flammability limit

Lower flammability limit

No data available

No data available

No data available

**Evaporation rate** 

Vapor PressureNo data availableVapor DensityNo data available

**Specific Gravity** 1.30-1.33 (20 °C/68 °F) **Water Solubility** Soluble in water ( 20 °C)

Solubility in other solventsNo data availablePartition coefficient: n-octanol/waterNo data availableAutoignition TemperatureNo data available

Decomposition Temperature >200 °C

Viscosity

No data available

Explosive Properties

No information available

Oxidizing Properties No information available No information available

9.2. Other information

VOC Content (%) No data available

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# 10. Stability and Reactivity

## 10.1. Reactivity

Not expected to be reactive.

## 10.2. Chemical stability

Stable

# 10.3. Possibility of hazardous reactions

Will Not Occur

#### 10.4. Conditions to avoid

Excessive heat

## 10.5. Incompatible materials

Strong oxidizers. Strong bases.

### 10.6. Hazardous decomposition products

Aluminum oxides Hydrogen chloride.

# 11. Toxicological Information

## 11.1 Information on likely routes of exposure

**Principle Route of Exposure** Skin contact. Inhalation. Ingestion. Eye contact.

## 11.2 Symptoms related to the physical, chemical and toxicological characteristics

**Acute Toxicity** 

InhalationMay cause mild respiratory irritation.Eye ContactCauses serious eye damage.Skin ContactMay cause mild skin irritation.

**Ingestion** May cause abdominal pain, vomiting, nausea, and diarrhea. Irritation of the mouth,

throat, and stomach.

## 11.3 Toxicity data

Toxicology data for the components

TOXIOUIUS GALA	toxioology data for the compensate			
Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Aluminum chloride.	basic 1327-41-9	2000 mg/kg (Rat)	No data available	No data available

Substances	CAS Number	Skin corrosion/irritation
Aluminum chloride, basic	1327-41-9	Not irritating to skin in rabbits. (similar substances)

Substances	CAS Number	Serious eye damage/irritation
Aluminum chloride, basic	1327-41-9	Causes severe eye irritation (similar substances)

Substances	CAS Number	Skin Sensitization
Aluminum chloride, basic	1327-41-9	Did not cause sensitization on laboratory animals (guinea pig)

Substances	CAS Number	Respiratory Sensitization
Aluminum chloride, basic	1327-41-9	No information available

Substances	CAS Number	Mutagenic Effects
Aluminum chloride, basic	1327-41-9	In vitro tests did not show mutagenic effects.

Substances	CAS Number	Carcinogenic Effects
Aluminum chloride, basic	1327-41-9	Not regarded as carcinogenic.

Substances	CAS Number	Reproductive toxicity
Aluminum chloride, basic		When tested at maternally toxic doses, no adverse effects on fertility, teratogenicity, or development
		were observed. (similar substances)

Substances	CAS Number	STOT - single exposure
Aluminum chloride, basic	1327-41-9	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number STOT - repeated exposure		
Aluminum chloride, basic 1327-41-9		No significant toxicity observed in animal studies at concentration requiring classification. (similar	
		substances)	

Substances	CAS Number	Aspiration hazard
Aluminum chloride, basic		No information available

# 12. Ecological Information

## **12.1. Toxicity**

# **Ecotoxicity effects**

Harmful to aquatic organisms Harmful to aquatic life.

**Substance Ecotoxicity Data** 

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Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to Invertebrates
			-	Microorganisms	
Aluminum chloride,	1327-41-9	No information available	EC50 (96h) > 1000 mg/L	EC50 (3h) > 1000 mg/L	EC50 (48h) = 38 mg/L
basic			(Danio rerio)	(activated sludge)	(Daphnia magna)
			LC50 (96h) = 186 mg/L	(similar substance)	EC50 (48h) = 98 mg/L
			(Danio rerio)		(Daphnia magna)
			LC50 (96h) > 100 mg/L		NOEC (8d) = 3.8 mg/L
			(Danio rerio)		(Ceriodaphnia dubia)

## 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Aluminum chloride, basic	1327-41-9	The methods for determining biodegradability are not
·		applicable to inorganic substances.

## 12.3. Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Aluminum chloride, basic	1327-41-9	No information available

## 12.4. Mobility in soil

Substances	CAS Number	Mobility
Aluminum chloride, basic	1327-41-9	No information available

#### 12.5 Other adverse effects

No information available

# 13. Disposal Considerations

## 13.1. Waste treatment methods

**Disposal methods**Contaminated Packaging
Dispose in accordance with local regulations.
Follow all applicable national or local regulations.

# 14. Transport Information

US DOT

UN Number UN3264

**UN proper shipping name:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Polyaluminum Chloride)

Transport Hazard Class(es): 8
Packing Group: |||

**Environmental Hazards:** Not applicable NAERG: NAERG 154

**Canadian TDG** 

UN Number UN3264

**UN proper shipping name:** Corrosive Solid, Acidic, Inorganic, N.O.S. (Contains Polyaluminum Chloride)

Transport Hazard Class(es): 8
Packing Group: |||

**Environmental Hazards:** Not applicable

IMDG/IMO

UN Number UN3264

**UN proper shipping name:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Polyaluminum Chloride)

Transport Hazard Class(es): 8
Packing Group: |||

**Environmental Hazards:** Not applicable EmS F-A, S-B

IATA/ICAO

UN Number UN3264

**UN proper shipping name:** Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Polyaluminum Chloride)

Transport Hazard Class(es): 8
Packing Group: |||

**Environmental Hazards:** Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Special Precautions for User None

# 15. Regulatory Information

## **US Regulations**

**US TSCA Inventory** All components listed on inventory or are exempt.

TSCA Significant New Use Rules - S5A2

Substances	CAS Number	TSCA Significant New Use Rules - S5A2
Aluminum chloride, basic	1327-41-9	Not applicable

EPA SARA Title III Extremely Hazardous Substances

Substances	CAS Number	EPA SARA Title III Extremely Hazardous
		Substances
Aluminum chloride, basic	1327-41-9	Not applicable

#### EPA SARA (311,312) Hazard Class

Corrosive to metal

Serious eye damage or eye irritation

**EPA SARA (313) Chemicals** 

Substances	CAS Number	Toxic Release Inventory (	TRI) - Toxic Release Inventory (TRI) -		
		Group I	Group II		
Aluminum chloride, basic	1327-41-9	Not applicable	Not applicable		

**EPA CERCLA/Superfund Reportable Spill Quantity** 

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Substances	CAS Number	CERCLA RQ	
Aluminum chloride, basic	1327-41-9	Not applicable	

#### **EPA RCRA Hazardous Waste Classification**

If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

**California Proposition 65** 

Substances	CAS Number	California Proposition 65	
Aluminum chloride, basic	1327-41-9	Not applicable	

U.S. State Right-to-Know Regulations

Substances	CAS Number	MA Right-to-Know Law	NJ Right-to-Know Law	PA Right-to-Know Law
Aluminum chloride, basic	1327-41-9	Not applicable	Not applicable	Present

# **Canadian Regulations**

Canadian Domestic Substances All components listed on inventory or are exempt. List (DSL)

## 16. Other information

Preparation Information

Prepared By Chemical Stewardship

Telephone: 1-281-871-6107

e-mail: fdunexchem@halliburton.com

Revision Date: 22-Oct-2018

Reason for Revision SDS sections updated:

1

#### **Additional information**

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Stewardship at 1-580-251-4335.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

bw - body weight

CAS - Chemical Abstracts Service

d - day

EC50 – Effective Concentration 50%

ErC50 – Effective Concentration growth rate 50%

h - hour

LC50 – Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL50 - Lethal Loading 50%

mg/kg - milligram/kilogram

mg/L - milligram/liter

mg/m<sup>3</sup> - milligram/cubic meter

mm - millimeter

mmHg - millimeter mercury

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PEL – Permissible Exposure Limit

ppm - parts per million

STEL - Short Term Exposure Limit

TWA – Time-Weighted Average UN – United Nations w/w - weight/weight

# Key literature references and sources for data

www.ChemADVISOR.com/

#### **Disclaimer Statement**

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**End of Safety Data Sheet** 

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