

MATERIAL SAFETY DATA SHEET

PRODUCT : POLYALUMINIUM CHLORIDE HYDROXIDE	REV.01
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1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

PRODUCT NAME: POLYALUMINIUM CHLORIDE HYDROXIDE

CHEMICAL FORMULA: $Al_n(OH)_mCl_k$

TRADE NAME: POLYALUMINIUM CHLORIDE(PAC17)

USES: Potable water treatment
Industrial water treatment, paper industry

MANUFACTURER FIRM Metalub Green industrial Solutions Ltd.
Yasmin 51 St. Ariel. Israel
T : 972-36990258
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2. HAZARDS IDENTIFICATION

Irritating to skin and eyes.

Inhalation: May be harmful

Ingestion: May be harmful

3 . COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC NO	CAS No	Content	Classification
POLYALUMINIUM CHLORIDE HYDROXIDE	215-477-2	1327-41-9	17,5 ± 2,5	Xi, R36/R38

4 . FIRST AID MEASURES

In case of inhalation: Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration if breathing has ceased. Get medical attention immediately.

In case of contact with skin: Immediately flush skin with plenty of water and soap. Get medical attention immediately.

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In case of contact with eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

In case of ingestion: Do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5 . FIRE FIGHTING MEASURES

Extinguishing Media : Water spray, alcohol resistive foam, dry chemicals or carbon dioxide are used as extinguishing media.

Special Hazards From The Substance: Toxic hydrogen gas can be released.

Advice For Fire Fighters: Full protective clothing to contact with skin and eyes and breathing apparatus are used.

6 . ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS

Wear appropriate personal protective equipment and prevent formation and exhalation of dust. Suitable ventilation must be provided.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains or water courses. Prevent the spreading of the product into the environment by diking with soil or other absorbent material

6.3. METHODS OF CLEANING

Collect as much as possible in a (clean) container or by absorbent material.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Use with adequate ventilation and do not use in limited area. Wash thoroughly after handling. Do not get in eyes, on skin or on clothing. Do not ingest or inhale. Avoid the formation and diffusion of vapor in the air.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store tightly closed in a cool, dry, ventilated storage area.

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8. EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 EXPOSURE CONTROLS

No information on occupational exposure limit of the material. But for Aluminium(Al-soluble salt)

WES-TWA: 2 mg/m³

8.2 PERSONAL PROTECTION

Respiratory protection : Self-contained breathing apparatus.

Hand protection : Impermeable gloves.

Eye protection : Tightly fitting safety goggles.

Skin protection : Impermeable protective clothing.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow liquid
Alumina (Al₂O₃) , %	17,0 ± 0,5
Chlorides(Cl), %	20 ± 2
Basicity	43± 5
pH	4.0± 1.5
Density(20 °C) , gr /cm³	1,30 ± 0,2
Crystallization Point (°C)	-20
Boiling Point at 100 kPa	Not known
Viscosity(dynamic)(at 20°C) (mPa.s)	10-50
Solubility	Fully miscible with water
Vapor Pressure	Not known
Specific heat	Not known
Critical temperature	Not applicable
Critical pressure	Not applicable
Physical hardness	Not applicable

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable under ordinary conditions of use and storage.

CONDITIONS TO AVOID

Heat, flame, spark.

INCOMPATIBLE MATERIALS

Strong oxidants, strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Toxic gas is released in the case of combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

LD50= 3730 mg/kg (rat, oral)

INFORMATION ON SKIN CORROSION/IRRITATION

No data on skin corrosion/irritation.

INFORMATION ON SERIOUS EYE DAMAGE/IRRITATION

Slight eye irritation on rabbits after 24 hours.

INFORMATION ON SKIN SENSITISATION POTENTIAL

No data on skin sensitisation potential.

INFORMATION ON CARCINOGENICITY

Not potential or proved carcinogen in concentrations %0.1 or above according to IARC.

INFORMATION ON REPRODUCTIVE TOXICITY

No data on reproductive toxicity.

Potential health effects

Inhalation : May be harmful if inhaled.

Ingestion : May be harmful if swallowed.

Skin : May be harmful if absorbed through skin. Causes skin irritation.

Eyes : Causes eye irritation.

12 . ECOLOGICAL INFORMATION

No data on ecotoxicity.

Biodegradation: Biodegradable

Bioaccumulative potential: No bioaccumulation

It is absorbed easily from the soil.

Avoid to enter waterways.



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13 . DISPOSAL CONSIDERATIONS

Do not discharge to channels. Dispose of in a manner consistent with federal, state, and local regulations. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packagings are disposed of as unused product.

14 . TRANSPORT INFORMATION

Road/Railway Transportation

ADR/RID

Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Polyaluminum chloride solution)

Hazard Class: 8

UN Number: 3264

Packing Group: III

Environmental hazards: No

Marine Transportation

IMDG

Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Polyaluminum chloride solution)

Hazard Class: 8

UN Number: 3264

Packing Group: III

Marine pollutant: No

Airway Transportation

IATA

Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s. (Polyaluminum chloride solution)

Hazard Class: 8

UN Number: 3264

Packing Group: III

Environmental hazards: No

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15 . REGULATORY INFORMATION

Xi:Irritant



Risk Phrases:

R36/38 Irritating to eyes and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice..

S 28 After contact with skin, wash immediately with plenty of water.

S 36/37/39 Wear suitable protective clothing, gloves and eye protection.

16 - OTHER INFORMATION

NFPA Ratings: Health :1 Flammability : 0 Reactivity: 0

Irritating to eyes and skin.

Avoid to contact with eyes and skin.