

# MATERIAL SAFETY DATA SHEET HIGH CATIONIC FLOCCULANT

# 1) IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

Chemical Product Name : AQUA HCF

Company Identification : AQUANOMICS SYSTEMS LIMITED,

B-2, 3rd Floor, Greater Kailash Enclave II, New Delhi,

110048, India.

"Ellora Fiesta", Office No. 605, Plot No. 8, Sector – 11, Sanpada Near Juinagar Railway Station, Navi

Mumbai – 400705, Maharashtra, India.

Telephone Nos. : +91 11 41435945/46/47

+91 22 27759467/68/69

Time Zone : + 5Hrs 30 Mints GMT

# 2) COMPOSITION AND INFORMATION ON INGREDIENTS

Identification of the preparation :Cationic water-soluble powder polymer.

# 3) HAZARD IDENTIFICATION

Spills produce extremely slippery surfaces.

# 4) FIRST AID MEASURES

Inhalation : Move to fresh air.

Skin Contact : Wash with water and soap as a precaution. In case of

persistent skin irritation, consult a physician.

Eye Contact : Rinse thoroughly with plenty of water, also under the

eyelids. In case of persistent eye irritation, consult a

physician.

Ingestion : The product is not considered toxic based on studies on

laboratory animals.



# 5) FIRE AND EXPLOSION DATA

Suitable extinguishing media : Water, water spray, foam, carbon

dioxide (CO<sub>2</sub>), dry powder

Special fire-fighting

precautions

: Aqueous solutions or powders that become wet render surfaces extremely

slippery.

Special protective equipment

for fire-fighters

: No special protective equipment

required.

# 6) ACCIDENT RELEASE MEASURES

Personal precautions

Environmental

precautions

nental

Do not contaminate with water.

Nothing special required.

Methods for clearing up : Do not flush with water. Clean up promptly

by scoop or vacuum. Keep in suitable and closed containers for disposal. After

cleaning flush away traces with water.

# 7) HANDLING AND STORAGE

Handling : Avoid contact with skin and eyes. Avoid dust formation

Do not breathe dust. Wash hands before breaks and at

the end of workday.

Storage : Keep in a dry, cool place & covered place (Ambient

Temperature).

# 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures to

reduce exposure

Use local exhaust if dusting occurs. Natural ventilation is adequate in the

absence of dusts.

#### **Personal protection equipment**

Respiratory protection : Dust safety masks are recommended

where concentration of total dust is more

than 10 mg/m<sup>7</sup>.

Hand protection : Rubber gloves.

Eye protection : Safety glass with side - shields. Do not

wear contact lenses.

Skin and body protection: Chemical resistant apron or protective suit

if splashing or repeated contact with

solution is likely.

Hygiene measures : Wash hands before breaks and at the end

of workday. Handle in accordance with good industrial hygiene and safety practice



# 9) TYPICAL PHYSICAL DATA AND CHEMICAL PROPERTIES

Physical Form : White Crystalline

Powder

### 10) STABILITY AND REACTIVITY

Stability : Product is stable, no hazardous

polymerization will occur.

Material to avoid : Oxidizing agents may cause exothermic

reactions.

Hazardous decomposition :

products.

Thermal decomposition may produce: Nitrogen Oxides (Nox), Carbon oxides

# 11) TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Oral : LD50/oral/rat>5000 mg/kg

Dermal : The result of testing on rabbits showed this material to

be non-toxic even at high dose levels.

Inhalation : The product is not expected to be toxic by inhalation.

**Irritation** 

Skin : The result of testing on rabbits showed this material to

be non-irritating to the skin.

Eyes : Testing conducted according to the Draize technique

showed the material produces no corneal or iridial effects and only slight transitory conjuctival effects similar to those which all granular materials have on

conjuctivae.

Sensitization : The results of testing on guinea pigs showed this

material to be non-sensitizing

Chronic : A two-year feeding study on rats did not reveal adverse

toxicity health effects. A one-year feeding study on dogs did not

reveal adverse health effects.

# 12) ECOLOGICAL INFORMATION

**Ecotoxicity** 

Fish : LC50/Fathead minnows/96h>1000mg/l

Algae : EC 50 / Selenastrum capricornutum /96h >500 mg/l

**Environmental fate** 

Bioaccumulation : The product is not expected to bioaccumulate.

Degradability/ : Readily biodegradable

Persistence



# 13) DISPOSAL CONSIDERATIONS

Waster from residues / :

unused products

Contaminated packaging

In accordance with local and national

regulations.

Rinse empty containers with water and use the rinse water to prepare working solution.

Can be land filled or incinerated, in compliance with local regulations.

# 14) TRANSPORTATION INFORMATION

Ensure absence of damage and leaks in containers, and stack such that there is no impact, tumbling, drop and crack. Ensure there is no collapsing load. Follow relevant regulations for transportation.

# 15) REGULATORY INFORMATION

Not Applicable.

# 16) OTHER INFORMATION

The information in this document is compiled from information maintained by M/S AQUANOMICS SYSTEMS LIMITED. The data in this MSDS were prepared based on the currently available data and information assuming conditions of common handling for industrial use. No guarantee, however, is implied directly with regard to the numerical values of contents, physico-chemical properties, hazards & toxicity, etc., data or evaluation. As the toxicity of chemical products cannot be predicted, the users are advised to adopt extreme care while handling. The users should use this information with their own responsibility and adopt appropriate safety measures based on the actual use conditions. Follow special handling; follow new safety measures and handle.