

## **MATERIAL SAFETY DATA SHEET**

### **1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

Product: **ECOMIX C**

ECOSOFT Water Systems GmbH, Germany

### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture of five natural and synthetic ion exchange and adsorption materials

### **3. HAZARDS IDENTIFICATION**

Pale yellow to light brown beads. Odorless. May cause slight eye irritation.

**POTENTIAL HEALTH EFFECTS**

**EYE:** May cause slight eye irritation. Solid or dust may cause irritation or corneal injury due to mechanical action.

**SKIN:** Essentially nonirritating to skin. No adverse effects anticipated by skin absorption.

**INGESTION:** Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

**INHALATION:** Vapors are unlikely due to physical properties. No adverse effects are anticipated from inhalation.

**SYSTEMIC & OTHER EFFECTS:** No relevant information found.

**CANCER INFORMATION:** No relevant information found.

**TERATOLOGY (BIRTH DEFECTS):** No relevant information found.

**REPRODUCTIVE EFFECTS:** No relevant information found.

### **4. FIRST AID**

**EYES:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**SKIN:** No emergency medical treatment necessary.

**INGESTION:** No emergency medical treatment necessary.

**INHALATION:** No emergency medical treatment necessary.

**NOTE TO PHYSICIAN:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## **5. FIRE FIGHTING MEASURES**

FLASH POINT: Not applicable

METHOD USED: Not applicable

FLAMMABLE LIMITS

LFL: Not applicable

UFL: Not applicable

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions some components of this product may decompose. The smoke may contain irritating compounds. Hazardous combustion products may include and are not limited to hydrocarbons, carbon monoxide, carbon dioxide and benzene compounds.

OTHER FLAMMABILITY INFORMATION: This material will not burn until the water has evaporated. Residue can burn.

## **6. ACCIDENTAL RELEASE MEASURES**

EXTINGUISHING MEDIA: Water, carbon dioxide, dry chemical.

FIRE-FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone.

PROTECT PEOPLE: Spilled material may cause a slipping hazard. Use appropriate safety equipment.

PROTECT THE ENVIRONMENT: Prevent from entering into soil, ditches, sewers, waterways and or groundwater.

CLEANUP: Contain spilled material if possible.

## **7. HANDLING AND STORAGE**

HANDLING: Avoid contact with eyes. Wash thoroughly after handling.

STORAGE: Store between 35-80F (2-27C).

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions.

## **8. PERSONAL PROTECTIVE EQUIPMENT**

EYE/FACE PROTECTION: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed.

RESPIRATORY PROTECTION: No respiratory protection should be needed.

EXPOSURE GUIDELINE: None established.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Pale yellow to light brown beads

ODOR: Odorless.

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

BOILING POINT: Not applicable

SOLUBILITY IN WATER: Insoluble

SHIPPING weight: 0.89 g/cm<sup>3</sup>

## **10. STABILITY AND REACTIVITY**

Stable under recommended storage conditions.

CONDITIONS TO AVOID: Product can decompose at elevated temperatures.

INCOMPATIBILITY MATERIALS: Avoid contact with oxidizing materials. Oxidizing agents such as nitric acid attack organic exchange resins under certain conditions. Before using strong oxidizing agents, consult sources knowledgeable in handling such materials. The severity of the reaction with oxidizing materials can vary from slight degradation to an explosive reaction.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Hazardous decomposition products may include and are not limited to aromatic compounds, hydrocarbons, organic sulfonates and sulfur oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

INGESTION: The oral LD50 for rats is >5000 mg/kg.

MUTAGENICITY: No relevant information found.

MOVEMENT & PARTITIONING: No bioconcentration of the polymeric component is expected because of its high molecular weight. In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

## **12. ECOLOGICAL INFORMATION**

**DEGRADATION & PERSISTENCE:** Based largely or completely on information for copolymer. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

**ECOTOXICITY:** Not expected to be acutely toxic, but pellets may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

## **13. DISPOSAL CONSIDERATIONS**

**DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.**

All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

THE ECOSOFT COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS.

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted incinerator or other thermal destruction device, landfill.

## **14. TRANSPORT INFORMATION**

Class: not regulated

## **15. REGULATORY INFORMATION**

Not needed

## **16. OTHER INFORMATION**

**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.