***MATERIAL SAFETY DATA SHEET (MSDS)***

Cationic Polyelectrolyte-- Wshinefloc®4125VS

**SECTION1 PRODUCT AND COMPANY IDENTIFICATION**

**Product name**: Wshinefloc®4125VS

**CAS No.:** 9003-05-8

**Applications**: Used as a flocculant for mineral processing, municipal, water treatment, paper, textile etc.

**Company**: Union World International Group Pty Ltd

**Address**: 817/36-42stanley st st lves NSW 2075, Australia

**Phone**: 61-02-80693081

**Fax**: 61-02-80693081

**SECTION2 INFORMATION ON INGREDIENTS**

**Product Code Ingredient CAS No.**

Wshinefloc®4125VS Acrylamide 9003-05-8

**Molecular Formula:**

![2H81GHJ0}Q6C4LJ{[8V]V$D]()

**SECTION3 HAZARDS INENTIFICATION**

**Hazards Identification:** This substance is considered to be non-hazardous for transport.

**Emergency Overview**: May irritating to eyes, respiratory systems and skin.

**SECTION4 FIRST-AID MEASURES**

**Skin Exposure:** In case of contact, immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.

**Eye Exposure**: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.

**Inhalation Exposure**: If inhaled, remove to fresh air. If necessary, get medical attention.

**Oral Exposure**: If swallowed, immediately wash out mouth with water provided person is conscious. Call a physician.

**SECTION5 FIRE FIGHTING MEASURES**

**Extinguishing Media:** Suitable: Water spray, Dry chemical, Carbon dioxide or appropriate foam.

**Firefighting:**

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazard: Emit toxic fumes under fire conditions.

**SECTION6 CCIDENTIAL RELEASE MEASURES**

**Procedure of Personal Precautious:**

Exercise appropriate precautious to minimize direct contact with skin and eyes.

**Methods for cleaning up:**

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

**AECTION7 HANDLING AND STORAGE**

**Handling:**

Wear appropriate clothing and gloves. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: strong oxidizing agents and food. No smoking at working site.

**Storage:**

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: strong oxidizing agents and food.

**SECTION8 EXPOSURE CONTROL/PPE**

**Engineering Controls:** Use ventilation equipment if available. Safety shower and eye bath.

**Personal Protective Equipment:**

**Respiratory:** Government approved respirator if necessary.

**Eye:** Wear chemical safety goggles.

**Clothing:** Wear appropriate protective clothing.

**Hand:** Wear compatible protective gloves.

**Other Protect:** No smoking, drinking and eating at working site. Wash thoroughly after handling.

 **SECTION9 PHYSICAL/CHEMICAL PROPERTIES**

Water soluble chelating organic polymer:

**Item Result Unit**

Solid Content ≥90 %

Volume density 0.77 g/cm3

Soluble matter >99.2 %

Insoluble matter <0.8 %

Moisture and impurities <10 %

**SECTION10 METAL CONTENT INFORMATION**

**Item Result Unit**

Cadmium ≤1 mg/kg

Lead ≤5.02 mg/kg

Mercury ≤0.48 mg/kg

**SECTION11 STABILITY AND REACTIVITY**

**Stability:** Stable under normal temperatures and pressures.

**Materials to Avoid:** Strong oxidizing and foods.

**Hazardous Decomposition Products:** CO, CO2, Nitrogen oxide.

**Hazardous Polymerization:** Will not occur.

**SECTION12** **TOXICOLOGICAL INFORMATION**

**Toxicity Data:** Polyacrylamide Rat Oral LD50 ＞1000mg/kg;

Polyacrylamide Rat Intraperitoneal LD50 3670mg/kg;

Polyacrylamide Rat Oral LD50 12990mg/kg;

Polyacrylamide Rabbit Oral LD50 11520mg/kg;

Irritation Data: Maybe irritating to eyes, respiratory system and skin.

**SECTION13 DISPOSAL CONSIDERATIONS**

**Appropriate Method of Disposal of substance:**

Spent of discarded material is not belong to hazardous waste. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped w8ith and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

**SECTION14 TRANSPORT INFORMATION**

**DOT**

Non-Hazardous for transport: This substance is considered to be non-hazardous for transport.

**ADR/RID Class:** None

Non-Hazardous for transport: This substance is considered to be non-hazardous for transport.

**IATA**

Non-Hazardous for Air Transport: Non-hazardous for air transport.

**IMO**

Non-Hazardous for Sea Transport: Non-hazardous for sea transport.

**UN Number:** None

**SECTION15 REGULATORY INFORMATION**

**EU Additional Classification：**

S: 26 36

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

**Other Information**

 The MSDS is prepared in accordance with ISO 11014-1:1994.

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