

MATERIAL SAFETY DATA SHEET



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Date Issued: 01/22/2009

MSDS No: MSDSZFLOCC400-012009

Z Flocc 400

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Z Flocc 400

GENERAL USE: Water Treatment Chemical; Remediation Work

PRODUCT DESCRIPTION: HMW Nonionic polymer

DISTRIBUTOR

Zeroday Enterprises, LLC
9450 SW Commerce Circle
Suite 314
Wilsonville OR 97070
Emergency Contact: 800-535-5053

24 HR. EMERGENCY TELEPHONE NUMBERS

Infotrac: (800)535-5053

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Translucent to opaque white

IMMEDIATE CONCERNS: Spills produce extremely slippery surfaces

POTENTIAL HEALTH EFFECTS

EYES: Contact may cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: This product is not considered toxic based on studies on laboratory.

INHALATION: Inhaling mist from this product could cause irritation to lungs and mucus membranes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name

Proprietary blend

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

INGESTION: Get medical attention if large amount swallowed or if there is any discomfort.

INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: > 100°C (212°F)

AUTOIGNITION TEMPERATURE: > 200°C (392°F)

GENERAL HAZARD: Spills produce extremely slippery surfaces

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may produce: carbon oxides and nitrogen oxides

FIRE FIGHTING EQUIPMENT: No special fire fighting equipment required

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Forms smooth, slippery surfaces on floors. Posing an accident risk.

LARGE SPILL: Product may cause a slip hazard. Spilled material should be absorbed onto an inert material and scooped up. Flush spill area with water. If slipperiness remains, apply more dry-sweeping compound.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Product should not be allowed to enter storm sewers or run off into surface waters

7. HANDLING AND STORAGE

HANDLING: Avoid contact with skin via rubber gloves and chemical resistant clothing and eyes via chemical face shield or the like. Ensure there is adequate ventilation when working with the product. Do not smoke when using.

STORAGE: Keep in a cool, dry place. Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses with side shields. Do not wear contact lenses.

SKIN: Gloves should be worn when handling product or surfaces contacted by material. Chemical resistant apron or protective suit if splashing or contact with solution is likely.

RESPIRATORY: Use a MSHA/NIOSH approved (or equivalent) dust mask to control nuisance dust.

PROTECTIVE CLOTHING: Remove clothing and wash with soap and water before reusing

WORK HYGIENIC PRACTICES: Wash hands before breaks and immediately after handling product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Aliphatic

APPEARANCE: Opaque liquid

COLOR: Milky

pH: ~ 6.0 to 8.0

PERCENT VOLATILE: 60 at 100°C (212°F)

BOILING POINT: > 100°C (212°F)

FLASHPOINT AND METHOD: > 100°C (212°F)

SOLUBILITY IN WATER: Completely soluble.

SPECIFIC GRAVITY: 1.030 (water=1)

VISCOSITY #1: 1200 cps

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce: carbon oxides and nitrogen oxides

INCOMPATIBLE MATERIALS: Oxidizing agents may cause exothermic reactions

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Direct contact irritates slightly to moderately with redness and swelling.

DERMAL LD₅₀: No known adverse effects to single, relatively short exposure. May cause irritation, especially after repeated contact.

ORAL LD₅₀: > 5000 mg/kg (rat)

INHALATION LC₅₀: This product is not expected to be toxic by inhalation

EYE EFFECTS: May cause eye irritation.

SKIN EFFECTS: May cause skin irritation.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: The product is rapidly eliminated from the aquatic medium through irreversible adsorption onto suspended matter and precipitated by dissolved organic materials.

ECOTOXICOLOGICAL INFORMATION: The effects of this product on aquatic organisms are rapidly and significantly mitigated through hydrolysis and by the presence of dissolved organic carbon in the aquatic environment.

BIOACCUMULATION/ACCUMULATION: Does not bioaccumulate.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: > 1000 mg/l Fathead minnows (*Pimephales promelas*)

48-HOUR EC₅₀: > 15 mg/l *Chaetogammarus marinus*

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: In accordance with federal, state and local regulations

FOR LARGE SPILLS: Dike spills, use absorbent material on spill. Sweep or vacuum up absorbed material and dispose of in accordance with state, federal and local laws.

RCRA HAZARD CLASS: Not a hazardous waste.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

OTHER SHIPPING INFORMATION: Not regulated by DOT

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

REGULATIONS

STATE REGULATIONS: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product contains a chemical(s) known to the State of California to cause cancer: residual acrylamide

RCRA STATUS: Not a Hazardous Waste

16. OTHER INFORMATION

PREPARED BY: cldm

REVISION SUMMARY: New MSDS

HMIS RATING

HEALTH:	1
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	B

NEPA CODES



HMIS RATINGS NOTES: Very slippery when wet Wear eye protection and gloves when handling

