



MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

MANUFACTURER Flow Polymers, Inc.
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PREPARED BY: LUH
DATE REVISED: 11/04
SUPERSEDES: 11/02

PRODUCT NAME AND SYNONYMS: FlowSperse® FP(ZnO)-88
CHEMICAL NAME: Zinc Oxide – Wetted Powder Mixture
CAS#: Mixture
FORMULA: Mixture
HMIS RATING: Health 1
Flammability 1
Reactivity 0

2. HAZARDOUS INGREDIENTS

Chemical	CAS Number	%Wt	TLV (units) ACGIH-TWA
Zinc Oxide	1309-64-4	88	10 mg/M ³ (as Zinc)
Naphthenic Oil	Mixture*	<12	5 mg/M ³

* The naphthenic oil component of this product can consist of one, some or all of the following CAS #'s:
64742-53-6 & 64742-52-5.

3. PHYSICAL AND CHEMICAL DATA

APPEARANCE: White wetted powder
SPECIFIC GRAVITY: 3.40
WATER SOLUBILITY: Negligible

4. FIRE PROTECTION

FLASH POINT (°F): >300 COC
EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemicals, foam.
SPECIAL FIREFIGHTING PROCEDURES: Fire fighter should wear self-contained breathing apparatus and protective clothing when fighting fires.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

5. REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Excessive temperatures, contamination.
INCOMPATIBLE MATERIALS: Strong acids.
DECOMPOSITION PRODUCTS: Oxides of carbon and zinc.
POLYMERIZATION POTENTIAL: None.

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6. HEALTH HAZARD INFORMATION

PRECAUTIONARY INFORMATION: Avoid contact with skin and eyes. Do not ingest. Use with adequate ventilation.

PRIMARY ROUTES OF ENTRY:

INHALATION: Unlikely at ambient temperatures.

SKIN ABSORPTION: No.

INGESTION: Unlikely

SKIN AND EYES: Yes

SKIN: Prolonged contact may cause irritation in some individuals.

EYE: Direct contact may cause painful stinging or burning, watering eyes.

INGESTION: May cause nausea, vomiting and abdominal cramps.

7. EMERGENCY FIRST AID PROCEDURES

SKIN: Wash with plenty of soap and water. Consult physician if irritation persists.

EYES: Irrigate with water for at least 15 mins. Consult physician if irritation persists.

INGESTION: Consult physician.

8. PRECAUTIONS FOR SAFE HANDLING AND STORAGE

Store in cool, dry location away from all sources of heat, sparks and open flames. Keep containers closed to prevent contamination. Avoid contact with skin and eyes. Wash thoroughly after handling.

9. SPILL AND LEAK PROCEDURE

WORKPLACE RELEASES: Do not flush into sewers. Remove all possible ignition sources. Use non-sparking tools. Wear respirators, gloves and goggles. Sweep up or vacuum. Place in waste disposal container. Dispose of in accordance with federal, state, and local regulations.

SOIL RELEASE: Do not flush into sewers. Scoop up contaminated soil and place in dry recovery drums. Dispose of as laws and regulations allow.

WATER RELEASE: Notification of the proper governing agency may be appropriate.

AIR RELEASE: Unlikely to be released to the air because of low volatility.

10. SPECIAL PROTECTION INFORMATION

VENTILATION: Adequate mechanical ventilation is recommended.

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10. SPECIAL PROTECTION INFORMATION (cont'd)

RESPIRATORY PROTECTION: Typically not required under normal use. However, a NIOSH approved respirator for dust is recommended.

PROTECTIVE GLOVES: Impervious rubber gloves

EYE PROTECTION: Safety glasses

OTHER: Protective clothing

11. **DOT HAZARD CLASS:** Not Regulated

12. **TSCA STATUS:** All components of this mixture are listed on the TSCA inventory.

13. **TOXICOLOGICAL INFORMATION:** No data at this time

14. **ECOLOGICAL INFORMATION:** No information at this time.

15. SECTION 313 NOTIFICATION:

This product contains the following toxic CHEMICALS subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40CFR 372.

CAS#	CHEMICAL NAME	PERCENT BY WEIGHT
N/a	Zinc Compounds	88

16. **OTHER INFORMATION:** contact the manufacturer regarding any questions or concerns about this material.

To the best of our knowledge, the information contained herein is accurate. However, neither Flow Polymers nor any of its affiliates assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material and whether there is any infringement of patent is the sole responsibility of the user. All chemicals may present unknown hazards and should be used with caution. Although certain hazards are described in the publication, we cannot guarantee that these are the only hazards which exist. Users of any chemical should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.