

MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA's 29 CFR 1910, 1200 AND STATE HAZARD COMMUNICATION STANDARD



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SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: Quasar MPR-D
GENERAL OR GENERIC ID: Electroless nickel additive
DATE PREPARED: 11/27/07
LATEST REVISION DATE: 11/27/07
NFPA/HMIS HAZARD CODES
(minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)
HEALTH: 1/1 FIRE: 0/0 REACTIVITY: 0/0 SPECIAL: C

SECTION 2: HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	OSHA PEL	ACGIH TLV	IDLH LEVEL	% WT
Sodium Hypophosphite	7681-53-0	N/A	N/A	N/A	< 25
Sodium Hydroxide	1310-73-2	2 mg/m ³	2 mg/m ³	250 mg/m ³	< 15
Sodium Acetate	0127-09-3	N/A	N/A	N/A	< 15

*= Reportable under SARA Title III

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: >212°F
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
SOLUBILITY IN WATER: complete
APPEARANCE AND ODOR: Clear liquid with slight vinegar odor
SPECIFIC GRAVITY: 1.20-1.25
PERCENT VOLATILE: N/A
EVAPORATION RATE: N/A

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A
EXTINGUISHING MEDIA: Water fog, carbon dioxide, alcohol foam, dry chemical and Halon.
SPECIAL FIRE FIGHTING PROCEDURES: Pressure demand, self contained respiratory protection and protective clothing should be worn by firefighters.
UNUSUAL FIRE AND EXPLOSION HAZARDS: When heated to decomposition sodium oxides, phosphine gas and phosphorous oxide fumes may be emitted.
FLAMMABLE LIMITS: N/A

SECTION 5: REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY: Strong oxidizers and acids.
CONDITIONS TO AVOID: Excess heat.
HAZARDOUS DECOMPOSITION PRODUCTS: When heated to decomposition sodium oxides, phosphine gas and phosphorous oxide fumes may be emitted.
HAZARDOUS POLYMERIZATION: Will not occur

SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY /SIGNS AND SYMPTOMS OF EXPOSURE:
ACUTE: Mildly irritating to the eyes, skin and nasal passages.
INGESTION: Irritating to tissues of the mouth throat and digestive tract. Industrial chemicals are not to be taken internally.
INHALATION: Inhalation of vapors or mist may cause irritation to tissues of the nose, throat and mucous membranes.
CHRONIC EFFECTS: None known
CARCINOGENS: None under OSHA, IARC or NTP.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.
EMERGENCY AND FIRST AID PROCEDURES:
EYES: Immediately flush with plenty of water for 15 minutes. See a physician.
SKIN: Wash with soap and water. Remove contaminated clothing. See a physician if irritation occurs.
INHALATION: Remove to fresh air. If breathing has stopped start artificial respiration. See a physician.
INGESTION: Call a physician immediately, **DO NOT INDUCE VOMITING DILUTE BY DRINKING WATER (MILK IF AVAILABLE) NEVER GIVE LIQUIDS TO AN UNCONSCIOUS PERSON.**

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES:
SMALL SPILLS: Flush to treatment system with large amounts of water.
LARGE SPILLS: Contain spill, sweep into suitable containers. Keep out of fish bearing waters.
WASTE DISPOSAL METHOD: Dump to waste water treatment system, observe local, state and federal regulations.

SECTION 8: TRANSPORTATION AND LABELING

REGULATORY INFORMATION:
DOT HAZARD CLASS: Not regulated
SHIPPING NAME: None
ID NUMBER: Not regulated
PACKING GROUP: Not regulated
LABELS: None
TSCA: All components included in the inventory.

SECTION 9: HANDLING AND STORAGE

HANDLING AND STORING: Keep container closed when not in use.
OTHER PRECAUTIONS: Keep out of reach of children. Store in proper chemical storage area.
If water pollution occurs, notify the proper authorities.

SECTION 10: CONTROL MEASURES

RESPIRATORY PROTECTION: Use NIOSH approved respiratory equipment for dust and mist.
VENTILATION: Local exhaust to maintain air contamination.
GLOVES: Rubber gloves, neoprene, or synthetic rubber required.
EYE PROTECTION: Safety glasses or goggles required.
OTHER PROTECTIVE EQUIPMENT: As needed to prevent prolonged or repeated skin contact. Eye wash fountain and safety shower in work area.
WORK /HYGIENIC PRACTICES: Launder contaminated clothing before reuse.

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