

# 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: EnBrite Quasar MPR-A-1  
GENERAL OR GENERIC ID: Liquid Nickel plating salt  
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
*Nickel Sulfate	7786-81-4	1 mg/m <sup>3</sup>	0.1mg/m <sup>3</sup>	N/A	30-40

\*= 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 green liquid with slight odor  
SPECIFIC GRAVITY: 1.20-1.26  
PERCENT VOLATILE: ND  
EVAPORATION RATE: N/A

## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Non Flammable  
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: Corrosive fumes and vapors may develop if product is exposed to elevated temperature.  
FLAMMABLE LIMITS: N/A

## SECTION 5: REACTIVITY DATA

STABILITY: Stable  
INCOMPATIBILITY: None known  
CONDITIONS TO AVOID: Avoid excessive heat.  
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes and metal oxides may be present during decomposition.  
HAZARDOUS POLYMERIZATION: Will not occur

## SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY /SIGNS AND SYMPTOMS OF EXPOSURE:  
ACUTE: Skin contact may be irritating and cause allergic dermatitis, characterized by itching and skin eruptions.  
INGESTION: Harmful if swallowed. May cause giddiness, nausea and vomiting.  
INHALATION: Inhalation of vapors or mist may cause irritation to tissues of the nose, throat and mucous membranes.  
CHRONIC EFFECTS: None known  
CARCINOGENS: IARC lists Nickel compounds as Group 1. NTP list Nickel compounds as anticipated carcinogen.  
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: 9  
SHIPPING NAME: Environmentally hazardous substances, liquid, n.o.s. (Nickel Sulfate)  
ID NUMBER: UN 3082  
PACKING GROUP: III  
LABELS: 9  
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 below TLV limit.  
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.

THE INFORMATION WAS COMPILED FROM CURRENT, RELIABLE SOURCES AND IS BELIEVED TO BE CORRECT. AS DATA, AND OR REGULATIONS CHANGE, AND CONDITION OF USE AND HANDLING ARE BEYOND OUR CONTROL, NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION. SELLER ASSUMES NO RESPONSIBILITY FOR INJURY TO BUYER OR TO THIRD PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY AND BUYER ASSUMES ALL SUCH RISKS.