

BEST Inc

MATERIAL SAFETY DATA SHEET Cerium Oxide

SECTION I - NAME & PRODUCT

ADDRESS: BEST Inc CONTACT: info@solder.net

3603 Edison Place

Rolling Meadows IL 60008

TRADE NAME, COMMON NAME OR SPECIFICATION: Cerium Oxide

EMERGENCY TELEPHONE: 847-797-9250

CHEMICAL FAMILY OR PRODUCT TYPE: Optical Polishing Compound - Cerium Type

APPROVED BY: Bob Wettermann February 8, 2012

SECTION II - COMPOSITION

CHEMICAL NAME: Bastnasite 100%

Common Name " Bastanite

Regular: YES

CAS # 68909-13-7

OSHA PERMISSIBLE EXPOSURE LIMIT Not established

ACGIH TLV Not established

CARCINOGEN* No

This material contains low levels of naturally occurring radioactive material (NORM) because of rare earth compounds As Thorium - OSHA PEL: 0.25 mg/m³ . CERCLA reportable: No; SARA TITLE III: Section 302 extremely-No, Section 311/312 -Yes-Kaolin, Section 313 Toxic -No; RCRA Status-No; California Proposition 65-NA

As Thorium-OSHA PEL: 0.25mg/m³. CERCLA reportable: No

SARA TITLE III: Section 302 extremely: No

Section 311/12-Yes-Kaolin, Section 313 Toxic:No

RCRA Status-No

California Proposition 65-NA

*REGULATED AS PER LISTS: OSHA 29 CFR 1910, SUBPART Z: ACGIH, HHS/N TP, & IAPC

SECTION III - PHYSICAL AND CHEMICAL DATA

BOILING POINT: NA MELTING POINT: NA SPECIFIC GRAVITY (BULK): 5.4 gms/cm³

VAPOR PRESSURE: NA PERCENT VOLATILE BY VOL.: NA VAPOR DENSITY: NA

EVAPORATION RATE: NA SOLUBILITY IN WATER: Insoluble SOLUBILITY IN ALCOHOL:

SOLUBILITY IN OTHER SOLVENTS: NA APPEARANCE & ODOR: Buff color, orderless

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: NA METHOD USED: FLAMMABLE LIMITS:

EXTINGUISHING MEDIA: Not flammable, use a dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Use sufficient local exhaust to reduce the dust. Use self-contained breathing apparatus, NIOSH approved, to avoid dust or fumes generated during fire fighting efforts.

SECTION V - HEALTH HAZARD DATA

A> PRIMARY ROUTE(S) OF ENTRY:

INHALATION: Breathing dust may result in irritation to the throat & nose.

INGESTION: All accidental ingestion of dust or slurry may cause irritation of the digestive tract.

SKIN: Not absorbed through the skin. Contact with broken skin may result in redness, burning, swelling & skin damage.

EYE: Dust may irritate eyes. Contact with dust or slurry may be abrasive & irritating causing tearing & redness.

B> EFFECTS OF OVEREXPOSURE (EO) OR FIRST AID (FA):

INHALATION: Handle with adequate ventilation with nuisance dust see OSHA 29 CFR 1910.94 (ventilation) & CFR1910.1000 (air normal clean-up procedures).

If airborne concentrations exceed established exposure limits, an approved NIOSH filter type respirator should be worn.

Remove to fresh air, obtain medical assistance.

INGESTION: Obtain first aid or medical assistance if needed,

Drink large amounts of water if patient is conscious

SKIN: Remove contaminated clothing & flush affected area with large amounts of water if patient is conscious.

Gloves recommended

EYE: Wash with large amounts of water, obtain medical assistance. Avoid rubbing eye, it may cause scratching of the eye.

Safety glasses with protective shields recommended

SECTION VI - SPILL, LEAK & DISPOSAL

1. Chemical Stability: Stable

2. Hazardous decomposition will not occur.

3. Spill Procedures: Use non-dust methods - vacuum and place into a container that can be closed for disposal, or flush with water. Do not dry sweep. Flush spilled material into suitable retaining areas or containers with water to avoid airborne particulate. Keep upwind. Wear proper protective equipment.

SECTION VII - SPECIAL PROTECTION INFORMATION

Wear proper personal protective equipment.

Protective gloves: Optional

Eye Protection: Protect from dust particles. Use safety glasses with side shields.

Respiratory protection: Use NIOSH approved dust mask respirator under appropriate OSHA standards & regulations.

Parental guidance required in the handling & use of this material.

SECTION VIII - SPECIAL PRECAUTIONS & COMMENTS

Keep out of reach of children.

Use a disposable damp rag to wipe up slurry and dry powder.

Use good personal hygiene when working with the compound - wash hands, etc.

Parental supervision is required in the proper use of this material and in providing personal hygiene instructions.

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