

MATERIAL SAFETY DATA SHEET

MSDS Date: 05/15/2006

Reagent A

Emergency Telephone #

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I. PRODUCT IDENTIFICATION

CATALOG NO: 01-REAGENT-A
PRODUCT NAME: Reagent A
CAS NO: 7789-78-8
CHEMICAL NAME: Calcium Hydride
CHEMICAL FAMILY: Hydrides
FORMULAS: CaH₂
UN Number UN1404

II. INGREDIENTS

Calcium Hydride
PCL: 100 CAS NO: 7789-78-8
TLV: Not established SARA: Not Listed
PEL: Not established RCRA: D003
HAZARD: Causes burns to wet tissue;
flammable

III. PHYSICAL DATA

STATE: Solid APPEARANCE: Gray Powder
ODOR: None ACID: Decomposes
SOLUBILITY IN: Water: Decomposes
OTHER: Not Determined BOILING POINT: NA
MELTING POINT: 675C decomposes
SPEC GRAVITY: 1.7 pH: Not Available
VAPOR PRESSURE: Not Applicable
VAPOR DENSITY: NA
EVAPORATION RATE: NA
METAL CORROSIVITY - ALUMINUM: ND
STEEL: ND STABILITY: Stable
STORAGE PRECAUTIONS: Store in a cool, dry place away
from oxidizers.

IV. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH POINT: Not Applicable
SUSCEPTIBILITY TO SPONTANEOUS HEATING:
In contact with moisture or water.
EXTINGUISHING MEDIA: Dry chemical/dolomite
(powdered limestone)
FIRE/EXPLOSION HAZARDS: Evolves flammable
hydrogen gas; violent reaction with oxidizers;
fires may reignite when extinguished.
HAZARDOUS DECOMPOSITION PRODUCTS:
flammable hydrogen gas in fire or in contact with
water or acids.
OXIDIZER: No
NFPA CODES: Health: 3 Flammability: 2 Reactivity: 2
CONDITIONS TO AVOID: Heat, flames: contact with
moisture, acids, halogens, lower alcohols, or
oxidizers.

V. HEALTH HAZARD DATA

THIS PRODUCT MAY BE: Corrosive to eyes, wet skin
and respiratory tract.
ACUTE TOXICITY: TOXIC DUE TO CORROSIVITY
ROUTES OF EXPOSURE: Ingestion, inhalation,
contact.
TARGET ORGANS: All body tissues.
OVEREXPOSURE: Causes burns to moist tissue, due to
caustic calcium hydroxide.

VI. PRECAUTIONARY MEASURES

Protect from moisture. Keep away from oxidizers. Wash
thoroughly after handling. Avoid contact with eyes, skin, and
clothing. Do not breath chemicals

Protective Equipment: Lab grade goggles, lab coat, rubber
gloves, fume hood.

VII. FIRST AID

Eye and Skin Contact: Immediately flush eyes with water for
15 minutes. Call physician. Wash skin with soap and plenty
of water.

Ingestion: Do not induce vomiting. Give large quantities of
water. Give at least 1 ounce of vinegar in an equal amount
of water. Never give anything by mouth to an unconscious
person. Call physician.

Inhalation: Remove to fresh air. Give artificial respiration if
necessary. Call physician.

VIII. SPILL AND DISPOSAL PROCEDURES

In Case of Spill or Release: Mix with dry sand to avoid or
stop fire. Scoop into bucket and remove to open area.
Slowly spray with dry butyl alcohol. Later add water by
fogging until last of hydride is destroyed. Scoop the solid
into a large container and neutralize with 3M HCl if
necessary. Let settle. Decant and flush to the sewer with
excess water. Send sand residue to a landfill.

IX. TRANSPORTATION DATA

Proper Shipping Name: Calcium Hydride
Hazard Class: 4.3 Dangerous When Wet
Group: I
Number: UN1404