

MATERIAL SAFETY DATA SHEET Preparation Date: AUG 20, '90 Date Sent to Customer...: MAR 12, '91 Information Phone Number: (609) 354-9200 EM_SCIENCE A Division of EM Industries P.O. Box 70 480 Democrat Rd. Gibbstown, N.J. 08027 Chemtrec Emergency Number: 1-800-424-9300 JOYCE KILBY/RISK MGMT OF UNIV OF WISCONSIN-WHITEWATER 800 W. MAIN ST-LIBRARY RM 2008 WHITEWATER, WI NFPA HAZARD RATINGS Health ...: 2 Reactivity : 2 Flammability ...: 1 Special Hazards.: W 53190 SECTION I SX0380 GENERAL INFORMATION Catalog Number(s): 6371 Markus Chemical Name...: Sodium Borohydride
Trade Name...: Sodium Tetrahydroborate (1-)
C.A.S. Number...: 16940-66-2
Chemical Family..: Inorganic Salt
Formula...: NaBH4 Molecular Weight.: 37.83
DOT Shipping Name: Water Reactive Solid, n.o.s. (Sodium Borohydride)
DOT Number....: UN2813 SECTION II - HAZARDOUS INGREDIENTS None other than specified product. SECTION III- PHYSICAL DATA SECTION IV - FIRE & EXPLOSION HAZARD DATA Flash Point (F°)...... None
Flammable Limits LEL %.: N/A
Flammable Limits UEL %.: N/A
Extinguishing Media...: Use dry chemical; do not use CO₂,
halocarbons, wet chemical or water.
Fire Fighting Proc....:
Wear self-contained breathing apparatus and protective equipment.
Fire f Fynl Hazards... Fire & Expl. Hazards...:

Reacts with water, acids or transition metal salts to produce highly flammable hydrogen gas. SECTION V - HEALTH HAZARD DATA (ACUTE AND CHRONIC)

ACGIH TLV/OSHA PEL (TWA)....: None established

Toxicity Data..... orl-rat LDLo: 160 mg/kg

Symptoms of Exposure:

Causes burns on contact.

Harmful if inhaled or swallowed.

SECTION VI - REACTIVITY DATA



Decomposes to form H2 at 500C.

Materials to Avoid....: (X) Water (X) Acids () Bases () Corrosives (X) Oxidizers (X) Other: Transition metal salts and their solutions

Hazardous Polymerization .: Does not occur Hazardous Decomposition ..: H2

SECTION VII - ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response: Take up and containerize for proper disposal.

Waste Disposal: To be performed in compliance with all current local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION
Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce exposure.

Material must be be handled or transferred in an approved fume hood or with equivalent ventilation.

Protective gloves must be worn to prevent skin contact (Neoprene or equivalent).

Safety glasses with side shields must be worn at all times.

Impervious protective clothing should be worn to prevent skin contact.

SECTION IX - SPECIAL PRECAUTIONS
Handling & Storage ...: Medling & Storage:
Keep container tightly closed.
Store in a cool, dry area away from acids and oxidizers.
Do not breathe dust.
Do not get in eyes, on skin or on clothing.

Work/Hygienic Practices: Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

SECTION X - OTHER INFORMATION
..... None Comments. Revision History.....: 6/1/82, 12/5/86, 10/27/87, 9/28/88 N/A = Not available: