



EM SCIENCE

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Sodium Borohydride ✓

MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar to Form OSHA-20")

GE

SECTION 1		NAME & PRODUCT	
Chemical Name:	Sodium Borohydride		Catalog Number:
			SX 0380
Trade Name & Synonyms:	CA #16940-66-2		Chemical Family:
			Inorganic - Reducing Agent
Formula:	NaBH ₄		Formula Weight:
			37.8
SECTION 2		PHYSICAL DATA	
Boiling Point, 760 mm Hg (°C)		Specific Gravity (H ₂ O = 1)	1.074
Melting Point (°C)	> 400°	Solubility in H ₂ O, % by wt. at 20°C	55%
Vapor Pressure at 20°C	nil	Appearance and Odor	white crystalline
Vapor Density (air = 1)	---		powder
Percent Volatiles by Volume	---	Evaporation Rate (Butyl Acetate = 1)	
SECTION 3		FIRE AND EXPLOSION HAZARD DATA	
Flash Point (test method)	Flammable Limits	LeI	Uel
Extinguishing Media	dry chemical; do not use CO ₂ , halocarbons or wet chemical		
Special Hazards and Procedures	use protective breathing apparatus		
Unusual Fire and Explosion Hazards	reacts with water, acids or metals to produce H ₂		
SECTION 4		REACTIVITY DATA	
Stable X	Conditions to Avoid		
Unstable	Decomposes to form H ₂ at 500°C		
Materials to Avoid			
(X) Water	() Acids	() Bases	() Corrosives (X) Oxidizers
(X) Other (specify) H ₂ SO ₄ , rathenium salts and palladium			
Hazardous Decomposition Products H ₂			
SECTION 5		SPILL OR LEAK PROCEDURES AND DISPOSAL	
Steps to be Taken in Case Material is Released or Spilled Sweep up and containerize			
Waste Disposal Method	To be performed in compliance with all current local, state and federal regulations		

We believe the data contained herein is factual. however, it is offered solely for your consideration, investigation, and verification.
Do not take as a warranty.

SECTION 6**HEALTH HAZARD DATA****Threshold Limit Value**

None established

TXDS: orl-hmn LD 50 50-100 mg/kg

Effects of Overexposure

Can irritate and burn skin. Corrosive to eyes.

Can irritate mucous membrane and upper respiratory tract.

First Aid Procedures

Eyes: wash with water; get medical assistance.

Skin: wash with soap/water; get medical assistance.

Ingestion: get medical attention.

Inhalation: remove to fresh air, get medical assistance.

SECTION 7**SPECIAL PROTECTION INFORMATION**

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection

Provide adequate explosion-proof exhaust ventilation.

Protect eyes and skin with safety goggles and gloves.

DOT - Flammable Solid

SECTION 8**SPECIAL HANDLING AND STORING PRECAUTIONS**

Store in a cool, dry, well-ventilated area away from acids and oxidizing material.

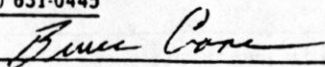
SECTION 9**HAZARDOUS INGREDIENTS**

(refer to section 3 through 8)

SECTION 10**OTHER INFORMATION**

EMERGENCY PHONE NUMBER (513) 631-0445

AUTHORIZED SIGNATURE



DATE ISSUED:

4/82

DATE REVISED: