

# MATERIAL SAFETY DATA SHEET

STANDARD SCIENTIFIC EMERGENCY PHONE (905) 890-1091

MANUFACTURER: STANDARD SCIENTIFIC INC.  
225 TRADERS BLVD. EAST, UNIT 3  
MISSISSAUGA, ONTARIO  
L4Z 3L8  
PHONE NO: 905 890-1091 FAX 905 890-1744

## PRODUCT IDENTIFICATION

TRADE NAME: REAGENT SPEEDY MOISTURE TESTER  
PRODUCT NO. H 4966

Prepared by: Safety Department  
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Replace Sheet Dated: January 1st, 2011

## SECTION 2: HAZARDOUS INGREDIENTS IDENTITY

Hazardous Component(s):	OSHA PEL	ACGIH TLV	OTHER LIMITS	CAS NO	% BY WT.
Calcium Carbide	None Established		75-20-7		65-85
Calcium Oxide	5mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	1305-78-8		10-30

NOTE; NO EXPOSURE LEVELS EXIST FOR CALCIUM CARBIDE. EXPOSURE LEVELS MAY BE APPLICABLE TO CONSTITUENT ELEMENTS.

## SECTION 3: PHYSICAL AND CHEMICAL CHARACTERISTICS

- 1) Boiling Point: N/A
- 2) Specific Gravity: 2.2
- 3) Solubility in Water: Decomposes in water to form acetylene gas.
- 4) Reactivity with Water: Calcium Carbide reacts with water to form acetylene extremely flammable acetylene gas. Calcium oxide reacts with water forming Ca (OH), and liberating heat.
- 5) Appearance and Odor: Gray to bluish black. Odor on exposure to air resembles garlic.
- 6) Melting Point: 1925 degrees C.



5) Chemicals Listed as Carcinogen or Potential Carcinogen:

National Toxicology Program: Yes ( ) No (X)  
I.A.R.C. MONOGRAPHS: Yes ( ) No (X) OSHA: Yes ( ) No (X)

## SECTION 7: EMERGENCY AND FIRST AID PROCEDURES

IF SYMPTOMS OF OVEREXPOSURE DEVELOP, ALWAYS SEEK IMMEDIATE MEDICAL ATTENTION.

### ROUTES OF ENTRY:

- 1) Inhalation (Breathing): Remove from dusty area to fresh air. Support breathing as required.
- 2) Eye Contact: Flush with water to ensure that no material remains in the eye.
- 3) Skin Contact: Wash with soap and water. Treat irritant as you would a burn.
- 4) Ingestion (Swallowing): Seek immediate medical attention. DO NOT INDUCE VOMITING.

## SECTION 8: SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES:

- 1) Precautions to be taken in Handling and Storage:  $\text{CaC}_2$  can be stored outdoors under cover, in full, unopened, well sealed metal containers. Adequate ventilation should be provided to storage building and bins where exposed material is stored. This prevents the accumulation of acetylene. Frequent periodic examination of drums should be made to check for excessive rusting.

LABELING: Flammable Solid and Dangerous When Wet.

- 2) Other Precautions: Keep sources of high heat, sparks, or open flames away from open containers.
- 3) Steps to be Taken in Case Material is Released or Spilled: Eliminate all heat and ignition sources from the spill area. Cleanup personnel should wear appropriate respiratory protective equipment, and protect against skin and eye contact. Avoid the use of compressed air to maneuver spills or leaks of fine material. Cover spilled material with an inert, noncombustible material such as dry sand. Avoid contact with water. Scoop up material using a non-sparking tool, and place into a dry container. Cover container but do not tightly seal to prevent pressure buildup.

Store container under cover away from personnel and buildings.  
Compliance is required with OSHA regulation 29 CFR 1910.120.

- 4) Waste Disposal Methods (Always Consult Federal, State, Regional, and Local Regulations Pertaining to This Material Before Using Any Method Suggested Here).  $\text{CaC}_2$  Fines - Handle as you would a spill or leak.  $\text{CaC}_2$  is an EPA Hazardous Waste:  
Dispose of according to applicable federal, state or local rules.
- 5) Consult Local Waste Disposal Professionals.

## SECTION 9: SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

General: Always Use Protective Equipment / Clothing as Necessary to Keep Exposure to This Material Below Applicable Exposure Limits.

- 1) Respiratory Protection (Specify Type):  
In dusty areas, use NIOSH- approved Schedule 21C respirator.  
In oxygen-deficient areas, use SCBA. Compliance is required with OSHA respirator regulations, 29 CFR 1910.134 (USA) and CSA Standard E94-4-M1982 (Canada).
- 2) Ventilation: Recommended.
- 3) Local Exhaust: For dusty areas.
- 4) Mechanical (General). N/A.
- 5) Protective Gloves: Cotton, Vinyl.
- 6) Eye Protection: Safety goggles are recommended.
- 7) Other Protective Clothing or Equipment:  
Gloves should be used when handling lump material. Avoid contamination of clothing with  $\text{CaC}_2$ . Button work clothes at wrist and neck. The use of a scarf around the neck in hot weather helps avoid chafing from the collar. Barrier creams may also be useful in preventing skin irritation.
- 8) Work / Hygienic Practices: Wash skin and clothing with soap and water after use.