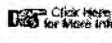




MATERIAL SAFETY DATA SHEET (MSDS)

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EM Science M A T E R I A L S A F E T Y D A T A S H E E T

Section I Product Identification and Use

Manufacturer: EM SCIENCE A Division of EM Industries P.O. Box 70 480 Democrat Road Gibbstown, N.J. 08027	For More Information Call 856-423-6300 Technical Service Monday - Friday; 8:00 AM to 5:00 PM In Case of Emergency Call 800-424-9300 CHEMTREC (USA) 416-201-6383 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week
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Product Name: Polyvinyl Alcohol
Product Code(s): B29791, B30573, XX1322
Chemical Name/Other Name: Polyvinyl Alcohol
Chemical Formula: (-CH₂CHOH-)_n
Chemical Family: Polymer
TDG Shipping Name/UN: Not regulated
TDG Classification/Packing group: Not regulated
Use: Laboratory reagent, industrial processes

Section II Hazardous Ingredients

Chemical name	CAS No.	%
Polyvinyl Alcohol	9002-89-5	100

Section III Physical Data

Physical State: Solid
Appearance and Odour: White powder; odourless
Odour Threshold: Not applicable
Specific Gravity: 1.26
Vapour Pressure: Not applicable
Vapour Density: Not applicable
Evaporation Rate: Not applicable
Boiling Point: Not applicable
Freezing Point: 200°C (decomposes)
pH: Not available
Coefficient of water/oil distribution: Not available

Section IV Fire or Explosion Hazard

Conditions of Flammability: Combustible. Dust can form explosive mixtures with air.
Extinguishing Media: Dry powder, carbon dioxide or vapourizing liquids
Flash point / method: 80°C/cc
UEL: Not available
LEL: Not available
Autoignition Temperature: Not available
Hazardous Combustion Products: CO_x
Explosion data - sensitivity to mechanical impact: No
- sensitivity to static discharge: No

Section V Reactivity Data



Conditions of instability: Normally stable
Incompatibilities: Oxidizers, bases, strong acids
Conditions of reactivity: Normally stable
Hazardous decomposition products: CO_x

Section VI Toxicological Properties / Health Hazard Data

Route of entry:

- skin contact:** May irritate
- skin absorption:** No information available
- eye contact:** Irritates
- inhalation:** May irritate
- ingestion:** No information available

LC₅₀: Not available

LD₅₀: 14.7 g/kg (orl,mus)

Exposure Limits: Not established

Effects of Acute Exposure: Irritation to upper respiratory tract may occur upon inhalation.

Effects of Chronic Exposure: No information available

Irritancy: No experimental information available

Sensitization to Product: No information available

Carcinogenicity: No information available

Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Toxicologically Synergistic Products: None found

Section VII First aid measures

Skin: Flush the contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care not to spread the chemical. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing under running water. Discard or decontaminate clothing before use. Unless contact has been slight, seek medical attention. Seek medical attention if irritation persists.

Eye: Flush the contaminated eye(s) for at least 15 minutes with lukewarm running water, holding the eyelids open. Take care not to rinse contaminated water into the non-affected eye. Always seek medical attention for accidents involving the eyes.

Inhalation: Take proper precautions to ensure your own safety before attempting rescue. Remove source of contamination or move victim to fresh air. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink 200-400 ml of water to dilute. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Section VIII Preventive Measures

Engineering Controls: Engineering control methods to reduce hazardous exposures are preferred. Methods include mechanical ventilation (dilution and local exhaust), process or personnel enclosure, control of process conditions, and process modification. Administrative controls and personal protective equipment may also be required.

Personal protective equipment:

- gloves:** Rubber or plastic
- respiratory protection:** Dust mask as appropriate



-eye protection: Chemical safety goggles

-clothing: Plastic apron, sleeves and boots as appropriate

Storage Requirements: Store in suitable labelled containers. Keep containers tightly closed when not in use and when empty. Protect from damage. Store away from incompatible materials.

Handling Procedures and Equipment: Follow routine safe handling procedures.

Leak or Spill Clean-up: Before dealing with spillages take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. Transfer carefully into container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

Disposal: Follow all federal, provincial and local regulations for disposal. Use only licensed disposal and waste hauling companies. Disposal of small amounts of spilled material may be handled as described under "Leak or Spill Cleanup". Large spills must be dealt with separately and must be handled by qualified disposal companies.

Special Shipping Information: Follow all TDG regulations and see classification in Section I

Section IX Preparation Information

Prepared by: Technical Affairs Department, BDH Inc.,
Toronto, Ontario
(416) 255-8521

For questions contact: Regulatory Affairs Department, EM Science
Gibbstown, NJ
(856) 423-6300

Date: AUG 24, 1988

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JULY 31, 1997; SEPT 23, 1997; Sep 28, 2000

WHMIS Classification: B4, D2B

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November 16, 2000

Manufacturer Name:	EM Science
Older Manufacturer Name:	BDH Inc.

Per BDH internet site, BDH Inc. is now called EM Science, A Division of EM Industries.