



MATERIAL SAFETY DATA SHEET

5100 W. Henrietta Rd.
West Henrietta, NY 14586
TEL: (866) 260-0501

MSDS No. 9402106
Effective Date: December 5, 2002

Sci. Kits

Lab. 5

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Ammonium Bicarbonate	416-984-3000
Chemical Synonyms	N/A	NFPA
Formula	NH ₄ HCO ₃	HAZARD RATING
CAS No.	1066-33-7	LEAST 0 SLIGHT 1 MODERATE 2 HIGH 3 EXTREME 4

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Ammonium bicarbonate	100%	N/A
CAUTION!		

SECTION III PHYSICAL DATA

Melting Point (°C)	Decomposes at 36-60°C (86-140°F)	Specific Gravity (H ₂ O = 1)	1.573
Boiling Point (°C)	Sublimes on heating.	Percent Volatile by Volume (%)	Negligible.
Vapor Pressure (mm Hg)	60 mm @ 25°C.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	17.4% in water at 20°C. 12% at 0°C.		
Appearance & Odor	Fine white crystals; slight ammonia odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	Use dry chemical, CO ₂ , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.				

Flammability and Explosion Hazards	May react with heat. Fire or excessive heat may produce hazardous decomposition products to be produced as dust or fume.
------------------------------------	--

TDG	Not controlled under TDG (Canada).
-----	------------------------------------

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Printed on recycled paper.

SECTION V REACTIVITY DATA AA0221

Chemical Stability	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If no, under what conditions?
Incompatible with Other products	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Acids and alkalis.
Hazardous Decomposition Products	Ammonia and carbon dioxide gas.	
Reactive under what conditions	Heating above 60°C causes decomposition.	

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion. Inhalation.
TLV	N/A
Toxicity for animals	N/A
Chronic effects on humans	Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce skin destruction or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Target organs: None known.
Acute effects on humans	May be harmful if inhaled, swallowed. May cause eye irritation, skin irritation.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep container dry. Keep in a cool place. Keep container tightly closed. Keep away from acids, alkalis, heat, moisture.
Precautions	Keep away from heat, sources of ignition. Avoid contact with skin and eyes. Do not ingest. Do not breathe dust.
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Protective Clothing	Safety glasses, lab coat, dust respirator, gloves.

SECTION VIII FIRST AID MEASURES

Specific first aid measures	Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.
-----------------------------	--

SECTION IX PREPARATION OF THE MSDS

Rev. No.	3	Date	December 5, 2002	Approved	Michael Raszeja
----------	---	------	------------------	----------	-----------------