

## **Safety Data Sheet**

# Ammonium Bicarbonate, Reagent

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ammonium Bicarbonate, Reagent

Synonyms/Generic Names: Ammonium hydrogen carbonate

Product Number: CP-A1093D, CP-M1093D, 0405

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: ChemPure Brand Chemicals

39103 Warren Road Westland, MI 48185

For More Information Call: 734-729-1805 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

#### 2. HAZARDS IDENTIFICATION

**OSHA Hazards:** Harmful by ingestion.

Target Organs: None Known

Signal Words: Warning

Pictograms:



#### **GHS Classification:**

Acute toxicity, Oral	Category 4
Acute aquatic toxicity	Category 3

#### **GHS Label Elements, including precautionary statements:**

#### **Hazard Statements:**

H302 Harmful if swallowed.		Harmful if swallowed.	
H402 Harmful to aquatic life.		Harmful to aquatic life.	

#### **Precautionary Statements:**

None	
None	

#### **Potential Health Effects**

Eyes	Causes eye irritation.	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.	
Skin	May be harmful if absorbed through skin. Causes skin irritation.	
Ingestion	May be harmful if swallowed.	

Revised on 08/15/2013 Page 1 of 5

#### **NFPA Ratings**

Health	1
Flammability	0
Reactivity	0
Specific hazard	Not Available

#### **HMIS Ratings**

Health	1
Fire	0
Reactivity	0
Personal	Е

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Ammonium Bicarbonate	100	1066-33-7	213-911-5	NH₄HCO₃	79.06 g/mol

#### 4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention if necessary.		
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not		
	breathing, give artificial respiration. Get medical attention if necessary.		
Skin	Flush with plenty of water for at least 15 minutes while removing contaminated clothing and		
	wash using soap. Get medical attention if necessary.		
Ingestion	<b>Do Not Induce Vomiting!</b> Never give anything by mouth to an unconscious person. If		
	conscious, wash out mouth with water. Get medical attention if necessary.		

## 5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable)	Product is not flammable. Use appropriate media for adjacent fire. Cool	
extinguishing media	containers with water.	
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective	
and precautions for firefighters	clothing, including eye protection and boots.	
Specific hazards arising from	ards arising from Emits carbon oxides and nitrogen oxides under fire conditions. (Carbon	
the chemical	oxides, Nitrogen oxides, Ammonia) (See also Stability and Reactivity	
	section).	

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment
	may be subject to federal/national or local reporting requirements.
Methods and materials for	Sweep up spill without creating dust, then place in a suitable container for
containment and cleaning up	disposal. Clean surfaces thoroughly with water to remove residual
	contamination. Dispose of all waste or cleanup materials in accordance
	with regulations.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

Revised on 08/15/2013 Page 2 of 5

#### Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

Eyes	Wear chemical safety glasses or goggles.	
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an	
	approved respirator.	
Skin	Wear nitrile or rubber gloves, apron or lab coat.	
Other	Not Available	

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	White, crystalline solid
Odor	Ammonia odor
Odor threshold	Not Available
pH	Not Applicable
Melting point/freezing point	1.58
Initial boiling point and boiling range	107.5 ℃
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	(@ 20°C) 67.1 hPa
Vapor density	(air=1) 2.73
Relative density	1.580 g/cm <sup>3</sup>
Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	log Pow: -2.4
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable	
Possibility of Hazardous Reactions	Will not occur.	
Conditions to Avoid	Heat.	
Incompatible Materials	Strong acid, oxidizing agents.	
<b>Hazardous Decomposition Products</b>	ts Carbon oxides, nitrogen oxides, ammonia.	

Revised on 08/15/2013 Page 3 of 5

## 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50- Oral (rat) - 1576 mg/kg

#### Carcinogenicity

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IARC	No components of this product present at levels greater than or equal to 0.1% is identified
	as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified
	as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by OSHA.

#### Signs & Symptoms of Exposure

Skin	Harmful if absorbed through skin. May cause irritation of the upper respiratory tract with
	coughing or breathing difficulty
Eyes	May cause eye irritation.
Respiratory	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	Harmful if swallowed.

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Aquatic Vertebrate	LC50 – Oncorhynchus mykiss (rainbow trout) – 16.8-19.6 mg/l (96 hr)	
Aquatic Invertebrate	Not Available	
Terrestrial	Not Available	

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

## 13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before discharging and disposing of waste material.
Product	Users should review their operations in terms of the applicable federal/national or
Containers	local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product containers.

Revised on 08/15/2013 Page 4 of 5

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

#### 14. TRANSPORTATION INFORMATION

US DOT	Not dangerous goods
TDG	Not dangerous goods
IMDG	Not dangerous goods
Marine Pollutant	No
IATA/ICAO	Not dangerous goods

#### 15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	No SARA Hazards
SARA 312	No SARA Hazards
SARA 313	Not Listed
WHMIS Canada	Not Listed

#### 16. OTHER INFORMATION

Revision	Date
Revision 1	05-24-2012
Revision 2	08/15/2013

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Revised on 08/15/2013 Page 5 of 5