

# Material Safety Data Sheet



**KERR-MCGEE CHEMICAL CORPORATION**  
KERR-MCGEE CENTER ■ OKLAHOMA CITY, OKLAHOMA 73125

**Tronacarb<sup>TM</sup>**  
**sodium**  
**bicarbonate**

For more detailed information on the hazards of this product, contact Regulations Compliance Department or Medical Services Department at the address above. Technical Information Bulletin is also available. For emergency information, telephone (405) 270-1313 any time.

## PRODUCT IDENTIFICATION

Brand Name ..... TRONACARB  
sodium bicarbonate  
Chemical Name ..... Sodium bicarbonate  
Common Name ..... Sodium bicarbonate  
Formula ..... NaHCO<sub>3</sub>  
DOT Proper  
Shipping Name ..... Not applicable  
DOT Hazard  
Class ..... Not applicable  
DOT I.D. Number ..... Not applicable  
Reportable Quantity (RQ) ... Not applicable  
CAS Number ..... 144-55-8

## PHYSICAL AND CHEMICAL PROPERTIES

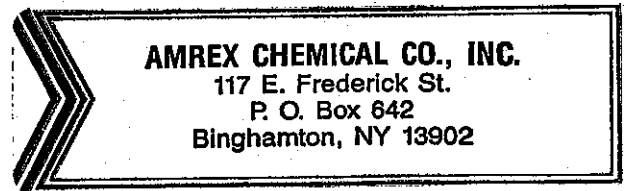
State ..... Granular solid  
Melting Point C ..... Loses CO<sub>2</sub> at 270  
Boiling Point C ..... Decomposes  
Color ..... White  
Odor ..... None  
Bulk Density, lb/cu. ft ..... 60  
Weight Per Gallon ..... Not applicable  
Specific Gravity @ 20C ..... 2.16  
Water Solubility, % By Wt. @ 20C 8.8  
Flash Point And Method ..... Not applicable  
pH ..... Not applicable

## HAZARDOUS INGREDIENTS

Chemical Name	Common Name	CAS Number	Hazard
Sodium bicarbonate	Sodium bicarbonate	144-55-8	Mild irritant to eyes, and skin.
Sodium carbonate	Soda ash	497-19-8	Irritant to eyes, skin and mucous membranes.

## PHYSICAL HAZARD INFORMATION

Explosive: No      Upper Explosive Limit: Not applicable      Lower Explosive Limit: Not applicable  
Pyrophoric: No  
Flammable: No      Flammability Class: Not applicable  
Combustible: No      Organic Peroxide: No  
Oxidizer: No      Compressed Gas: No



Reactivity: Normally stable in dry air. In moist air forms sodium carbonate, an irritant.

Incompatibilities: Acids, monoammonium phosphate, aluminum and phosphorus pentoxide.

Hazardous Decomposition: Decomposes when exposed to high heat, releasing carbon dioxide (CO<sub>2</sub>). Carbon dioxide is an asphyxiant and may affect respiration rate or interfere with breathing.

Conditions To Avoid: Exposure to incompatible materials and heat.

---

## HEALTH INFORMATION

Precautionary Information: **CAUTION!** This product is a mild irritant to the eyes and skin.

Symptoms Of Exposure: Irritation or redness of the eyes or skin.

Restrictive Medical Conditions: Eye or skin diseases and breathing or respiratory disorders will be aggravated by exposure to this chemical.

---

## PRIMARY ROUTE(S) OF ENTRY

Inhalation (breathing), and ingestion (swallowing).

---

## TOXICITY INFORMATION

Oral - infant LDLo 1260 mg/kg  
Oral - rat LD<sub>50</sub> 4220 mg/kg  
Irritant skin - rabbit 30 mg/3 days - mild

---

## EXPOSURE LIMITS

OSHA: Not established  
ACGIH: Not established  
Other: ACGIH-TLV-TWA for a nuisance dust is 10 mg/m<sup>3</sup> total dust or 5 mg/m<sup>3</sup> respirable dust

---

Reported As A Potential Carcinogen  
Or Carcinogen

Not Applicable  
 OSHA

National Toxicology Program  
 International Agency For Research On Cancer

---

### PRECAUTIONS FOR SAFE HANDLING AND USE

Avoid contact with eyes, skin and clothing.  
Avoid breathing dust.  
Avoid contact with acids.  
Store in a cool, dry area.  
Wash thoroughly after handling.

---

### SPILL AND LEAK PROCEDURES

Soil Release: Shovel or sweep up and place in container for disposal. Dispose of as an industrial waste in accordance with federal, state and local regulations.

Water Spill: Disperse with water jets, propellers or similar devices.

Air Spill: Keep upwind. Treat impact site as for Soil Release or Water Spill.

Occupational Spill: Shovel or sweep up and place in container for disposal or wash to an industrial sewer as permitted by federal, state and local regulations.

RCRA Waste Number: Not applicable.

---

### ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation: Use general dilution and local exhaust techniques to meet nuisance dust exposure limit.

Respirator: NIOSH/MSHA approved dust type.

Eye Protection: Safety glasses or safety goggles.

Gloves: Rubber, neoprene or similar materials that will not allow alkaline solutions to penetrate.

Clothing: Easily washable clothing. Change daily. Wash clothing before reuse.

---

---

## EMERGENCY PROCEDURES

**Fire:** This product is not flammable and does not support combustion.

**Spill or Leak:** Shovel or sweep up and place in container for later disposal.

---

## FIRST AID PROCEDURES

**Ingestion:** If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

**Inhalation:** Remove to fresh air.

**Skin Contact:** Flush skin with water and then wash thoroughly.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**Note To Physician:** Chemical of exposure is sodium bicarbonate.

---

**DATE OF ISSUE:** July, 1985

**DATE REVISED:** July 17, 1985

**REPLACES:** B-5010/6-85