

# MATERIAL SAFETY DATA SHEET

REAGENT, LAB GRADE  
CAROLINA BIOLOGICAL

Revised: 11/23/09  
Replaces: 11/23/09  
Printed: 03/06/10

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## **1. PRODUCT DESCRIPTION**

Product Name: Acetanilide  
Product Code(s): 84-1260, 84-0928  
Size: 250g  
Chemical Name: Acetanilide  
CAS Number: 103-84-4  
Formula: C<sub>8</sub>H<sub>9</sub>NO  
Synonyms: N-Phenylacetamide, Acetylaminobenzene  
Distributor: Carolina Biological Supply Company  
2700 York Road  
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)  
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

Principle Hazardous Components: Acetanilide (CAS#103-84-4) 100%  
TLV and PEL units: None found

## **3. HAZARD IDENTIFICATION**

Emergency Overview: Can be toxic by ingestion or inhalation. Can be harmful to skin and eyes.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

## **4. FIRST AID MEASURES**

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.  
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give some water. Do not induce vomiting unless and until directed by medical personnel. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

## **5. FIREFIGHTING PROCEDURES**

Flash Point(Method Used): 169 °C (OC)

NFPA Rating: Health: 3  
Fire: 1  
Reactivity: 0

Extinguisher Media:

Use dry chemical, CO<sub>2</sub> or appropriate foam.

Flammable Limits in Air % by Volume: No data available

Autoignition Temperature: 530 °C

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved

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self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: No data available

## **6. SPILL OR LEAK PROCEDURES**

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

## **7. SPECIAL PRECAUTIONS**

Precautions to be Taken in Handling or Storing: Keep container tightly closed and at a controlled temperature.

Other Precautions: Do not breathe dust.

## **8. SPECIAL PROTECTION INFORMATION**

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Preferred

Mechanical(General): Accepted

Special: No

Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

## **9. PHYSICAL DATA**

Molecular Weight: 135.16

Melting Point: 114.3 °C

Boiling Point: 305 °C

Vapor Pressure: No data available

Vapor Density(Air=1): 4.65

Specific Gravity(H2O=1): 1.22

Percent Volatile by Volume: No data available

Evaporation Rate(BuAc=1): No data available

Solubility in Water: Slight

Appearance and Odor: White to off-white crystalline powder.

## **10. REACTIVITY DATA**

Stability: Stable

Conditions to Avoid: Extreme heat, dusting

Incompatibility(Materials to Avoid): Oxidizers

Hazardous Decomposition Products: COx, NOx, Aniline

Hazardous Polymerization: Will not occur

## **11. TOXICITY DATA**

Toxicity Data: orl-rat LD50: 800mg/kg; orl-man LDlo: 56mg/kg/Hour

Effects of Overexposure:

Acute: See section 3

Chronic: Not listed as causing cancer by IARC, NTP, or OSHA.

Prolonged exposure can effect the bloods ability to carry oxygen;

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Cyanosis is a sign of this.  
Conditions Aggravated by Overexposure: No data found  
Target Organs: No data found  
Primary Route(s) of Entry: Inhalation, Ingestion, Skin contact

## **12. ECOLOGICAL DATA**

EPA Waste Numbers: No data available

## **13. DISPOSAL INFORMATION**

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.  
Always contact a permitted waste disposer (TSD) to assure compliance.

## **14. TRANSPORT INFORMATION**

Non Regulated

## **15. REGULATORY INFORMATION**

EPA TSCA Status: On TSCA Inventory  
Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name	Chemical List Category		

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Acetanilide	No	No	No	No	No
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## **16. ADDITIONAL INFORMATION**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

DOT.....U.S. Department of Transportation

IARC.....International Agency of Research on Cancer

mppcf.....million particles per cubic foot

N/A.....Not Available

NTP.....National Toxicology Program

OSHA.....Occupational Safety and Health Administration

PEL.....Permissible Exposure Limit

ppm.....parts per million

RCRA.....Resource Conservation and Recovery Act

SARA.....Superfund Amendments and Reauthorization Act

TLV.....Threshold Limit Value

TSCA.....Toxic Substances Control Act