



MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Product name:** **BENZOIC ACID**
- **Manufacturer:** Deep South Chemical, Inc.
229 Millstone Road
Broussard, LA 70518 (337) 837-9931
- **For Emergency :** Call **CHEMTREC 1-800-424-9300**
Outside the U.S.A. (703)-527-3887
- **Chemical Family:** ACID
- **Contact Person:** Glenn Ray
- **Formula:** C₆H₅COOH
- **MSDS Revised:** January 1, 2014

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	CAS Number	%	PEL(OSHA)		TLV(ACGIH)		IDLH
			TWA	STEL	TWA	STEL	
Benzoic Acid	68-85-0	>99	N/E	N/E	N/E	N/E	N/E

SECTION 3. HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

Effects of overexposure:

Inhalation: This material is a dust or may produce dust. Prolonged or repeated breathing of this material may result in chronic bronchitis (inflation of the airways of the lungs). Symptoms include coughing and shortness of breath. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable see Section 8).

Eye Contact: Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin Contact: Irritating to skin. Toxic if absorbed through skin.

Ingestion: Irritation of the mouth, throat, and digestive tract.

SECTION 4. FIRST AID MEASURES

Eyes: Move victim away from exposure and into fresh air. If irritation persists, seek medical attention. For direct exposure, flush with clean water for 15 minutes. Hold eyelids apart to ensure flushing of the entire eye surface.

Inhalation: Move victim away from source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing, artificial respiration should be administered.

Skin: Remove contaminated clothes. Cleanse affected area thoroughly with soap and water. If irritation persists, seek medical attention. Wash contaminated clothing.

Ingestion: Drink plenty water. Do not induce vomiting. If victim is drowsy or unconscious, place on left side with head down. Seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Fire fighting measures: Use water spray, powder, foam, or CO₂ to extinguish fire.

Special Fire Fighting Procedures: Water spray to cool drums.

Precautions for fire-fighting: Organic dusts at sufficient concentration can form explosive mixtures in air. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possible endanger any firefighter standing too close to the burning liquid. Use water



spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

Hazardous combustion products: Carbon Dioxide and carbon monoxide, Hydrocarbons

Explosive Properties:

LEL: N/D

UEL: N/D

SECTION 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Use proper personal protective equipment. Stay upwind from spill. For small dry spills, carefully scoop material into suitable containers for later disposal. Vacuuming (with appropriate filter) may minimize dust dispersion. For small solution spills, take up with earth, sand, vermiculite, or other absorbent, noncombustible material. For large spills, dike far ahead of liquid spills for later disposal.

Waste disposal method: Dispose of according to local, state and federal regulations in an approved disposal facility or recycling facility.

SECTION 7. HANDLING AND STORAGE

Storage: Store in a well-ventilated area. Keep container tightly closed when not in use. Store in cool, dry area. Keep away from sources of ignition.

Handling: Use proper personal protective equipment. Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. When handling do not eat, drink, or smoke.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Keep work area well ventilated.

Protective clothing: Impermeable gloves and impervious clothing as appropriate.

Eye protection: Chemical goggles where splashing may occur.

Respiratory Protection: Use appropriate respiratory protection when handling or in case of insufficient ventilation.

Special Protection: Safety shower, eye bath, and washing facilities should be available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity @ 75°F (H₂O = 1): 1.300g/cm³ @ 59° F / 15.00° C

Flash Point: 250°F

Vapor density (Air = 1): 4.2

Solubility: 0.29g/100ml water @ 68°F

Vapor pressure @ 205°F: 1 mm Hg

Evaporation Rate: N/D

Appearance and Odor: White, needle-like crystals with a faint pleasant odor.

Melting Point: 252.3°F / 122.4°C

Boiling Point: 480.6°F / 249.2°C @ 101.32 kPa

Percent Volatile by Volume: 0

pH: Approximately 2.8 in a saturated solution @ 482°F.

Auto-ignition: 1,058 °F / 570° C

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity: Stable in normal conditions.

Incompatibility/Materials: Oxidizing agents, bases, and metals. Water solutions

Hazardous Decomposition Products: Emits toxic vapors and gas including phenol, benzene, and carbon monoxide when heated to decomposition.



Hazardous polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Oral rat LD50: 1700mg/kg
LC50 rat: >26mg/m3; 1h
LD 50 Rabbit; (>) 10 g/kg

SECTION 12. ECOLOGICAL INFORMATION

Environmental Fate: When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to have a half-life between 1 and 10 days. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. When released into water, this material is not expected to evaporate significantly. This material has a log octanol-water partition coefficient of less than 3.0. This material may bioaccumulate to some extent. When released into the air, this material is expected to be moderately removed from the atmosphere by wet deposition. When released to the air, this material is subject to removal from the atmosphere by gravitational settling.

Environmental Toxicity: N/D

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of waste materials: Incinerate or in compliance with local, state, and federal regulations.

Disposal of waste containers: Recycle, clean out residues.

SECTION 14. TRANSPORT INFORMATION

DOT transport information: Non-Regulated

SECTION 15. REGULATORY INFORMATION

Toxic Substances Control Act (TCSA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

CERCLA RQ-40 CFR 302.4(a)

<u>Component</u>	<u>CERCLA RQ (lbs)</u>
Benzoic Acid	5000

SARA 302 Components-40 CFR 355 Appendix A

<u>Component</u>	<u>TPQ(Threshold Planning Quantity) (lbs)</u>
None	

Section 311/312 Hazard Class-40 CFR 370.2

- Immediate (X)
- Delayed ()
- Fire (X)
- Reactive ()
- Sudden Release of Pressure ()

SARA 313-40 CFR 372.65

<u>Component</u>	<u>CAS Number</u>	<u>%</u>
None		

SECTION 16. OTHER INFORMATION

NFPA RATING: Health (2) Fire (1) Reactivity (0)

Disclaimer:



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N/D= No data; N/A = Not available; N/E= Not established