

# Safety Data Sheet

## ANILINE

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Aniline

**Catalog Numbers:** G-488-1 & SO-132

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

#### GHS Classifications

##### HEALTH HAZARDS

H302-Acute Oral Toxicity: 3

H311-Acute Dermal Toxicity: 3

H331-Acute Inhalation toxicity: 3

H314-Skin Corrosion/Skin Irritation: 1C

H319-Eye damage/Irritation: 2A

H334-Respiratory Sensitization: 1B

H317-Skin Dermal Sensitization: 1B

H371-Specific Target Organ Toxicity: 2

##### PHYSICAL HAZARDS

H227-Combustible liquid with flash point between 37.8 °C and 93.3

##### ENVIRONMENTAL HAZARDS

H400 Aquatic acute environmental Hazards: 1

Chronic environmental Hazards: Not classified

## Pictograms or Hazard symbols and Hazard statement.



Dange: Toxic if swallowed. Toxic if inhaled. Toxic in contact with skin.



Very toxic to aquatic life.



Danger: Causes severe skin burns and eye damage.



**Chronic**

Prolonged exposure may cause many organs damage.

## Precautionary Statement Prevention

H302

**P264** Wash thoroughly after handling.

**P270** Do not eat, drink, or smoke when using this product.

**P301 + P312** If swallowed, call a physician if you feel unwell.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

**P330** Rinse mouth.

### H311

**P280** Wear protective gloves, clothing, and eye and face protection.

**P302 + P352** If on skin, wash with plenty of soap and water.

**P312** Call a physician if you feel unwell

**P361 + P363** Take off immediately all contaminated clothing and wash it before reuse.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

### H331

**P261** Avoid breathing fumes/mist/vapors.

**P27 P304 + P340** If inhaled, remove person to fresh air and keep comfortable for breathing.

1 Use only outdoors or in a well-ventilated area.

**P312** Call a physician if you feel unwell.

### H314

**P280** Wear protective gloves, clothing, and eye and face protection.

**P302 + P352** If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.

**P332 + P313** If skin irritation occurs, get medical advice/attention.

**P362** Take off contaminated clothing and wash before reuse.

### H319

**P305 + P351 + P338** If in eyes, rinse cautiously with water for several minutes.

**P337 + P313** If eye irritation persists, get medical advice/attention.

**P285** In case of inadequate ventilation, wear respiratory protection.

**P304+P341** IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**P342+P311** if experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

### H317

**P272** Contaminated work clothing should not be allowed out of the work place.

**P333+P313** IF ON SKIN: Wash with plenty of soap and water.

**P363** Wash contaminated clothing before reuse.

### H320

**P264** Wash thoroughly after handling.

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313** If eye irritation persists: Get medical advice/attention.

H371

**P260** Do not breathe fume/gas/mist/vapors.

**P270** Do not eat, drink, or smoke when using this product.

**P309+P311** IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Section 3 - Composition, Information on Ingredients

| CAS#      | Chemical Name  | Percent  |
|-----------|----------------|----------|
| 62-53-5   | Aniline        | 1 w/v    |
| 64-17-5   | Ethyl Alcohol  | 85.5 v/v |
| 67-56-1   | Methyl Alcohol | 4.5 v/v  |
| 7732-18-5 | Water          | 9 v/v    |

Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

**Oral Exposure:** If Swallowing seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

**General Information:** Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or

alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

**Flash Point:** 37.8 to 93.3 deg C

**Autoignition Temperature:** 615 deg. C

**Explosion Limits, Lower:** 1.3 %

**Upper:** 23 %

**NFPA Rating:** (estimated) Health: 3; Flammability: 2 Instability: 0

## Section 6 - Accidental Release Measures

### **Procedure(s) of Personal Precaution(s):**

Wear protective gear. Eliminates all sources of ignition.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

## Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped at room temperature. Keep away from incompatible materials. Protect from heat.

## Section 8 - Exposure Controls, Personal Protection

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## Section 9 - Physical and Chemical Properties

**Physical State:** Clear Solution

**Molecular Weight:** 93.13

**Vapor Pressure:** 0.6 mm of Hg (@ 20 deg. C)

**pH:** 1%

**Vapor Density:** 3.22

**Odor Threshold:** 2.4 ppm

**Evaporation Rate:** N/A

**Viscosity:** N/A

**Boiling Point:** 184.4 deg. C

**Freezing/Melting Point:** N/A

**Decomposition Temperature:** N/A

**Solubility:** Soluble.

**Specific Gravity/Density:** N/A

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat, oxidizers.

**Incompatibilities with Other Materials:** Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.

**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**RTECS#:**

**LD50/LC50:**

CAS# 62-53-5:

Oral, mouse: LD50 = 464 mg/kg.

Oral, rat: LD50 = 250 mg/kg.

Dermal, rat: LD50 = 1400 mg/kg ; < BR.

Dermal, mouse: LD50 = 820 mg/kg ; < BR.

CAS# 64-17-5:

Oral, mouse: LD50 = 3450 mg/kg.

Oral, rat: LD50 = 7060 mg/kg.

Oral, rat: LD50 = 9000 mg/kg ; < BR.

CAS# 67-56-1

Rabbit oral: 5628 mg/kg.

Rabbit skin: 15800 /24 H Moderate

Rabbit inhalation: 64000/ 4 hours.

**Solution Carcinogenicity:**

Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available.

**Teratogenicity:** Classified possible for human. Causes damage to the following organs: eyes. May cause damage to the following organs: blood, kidneys, liver, brain, peripheral nervous system, upper respiratory tract, skin, central nervous system.

**Reproductive Effects:** Not Available

**Neurotoxicity:** No information available.

**Mutagenicity:** Mutagenic for mammalian cells. Mutagenic for bacteria and/or yeast.

**Other Studies:** None

## Section 12 - Ecological Information

**Ecotoxicity:** Toxic to aquatic life.  
**Environmental:** Hazardous Waste  
**Physical:** No information available.  
**Other:** No information available.

## Section 13 - Disposal Considerations

### **Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved waste facility.

## Section 14 – Transport Information

### **DOT**

Proper shipping name: Aniline  
UN1547  
PG II  
Hazard class 6.1

## Section 15 - Regulatory Information

### Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

### **California Prop 65**

WARNING: Ethanol, is a chemical known to the state of California to cause developmental reproductive toxicity.

California No Significant Risk Level: None of the chemicals in this product are listed.

### **European/International Regulations**

#### **European Labeling in Accordance with EC Directives**

#### **Hazard Symbols:**

T: Toxic

#### **Risk Phrases:**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R36/38 Irritating to eyes and skin

**R51** Toxic to aquatic organisms

R61 May cause harm to the unborn child

**Safety Phrases:**

S20/21 When using do not eat, drink or smoke

S2 Keep out of the reach of children

S 16 Keep away from sources of ignition - No smoking.

S 33 Take precautionary measures against static discharges.

S 7 Keep container tightly closed.

S 9 Keep container in a well-ventilated place

|                                     |
|-------------------------------------|
| Section 16 - Additional Information |
|-------------------------------------|

**MSDS Creation Date:** 10/21/12

**Revision #1. 11/25/14 RC**

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