

XYLENE / ANILINE 1:1

Section 1 - Chemical Product and Company Identification

SDS Name: Xylene/Aniline 1:1

Catalog Numbers: SO-468

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 Category

HEALTH HAZARDS

H301-Acute Oral Toxicity: 3

H311-Acute Dermal Toxicity: 5

H332-Acute Inhalation toxicity: 4

H315-Skin Corrosion/Skin Irritation: 2

H319-Eye Damage/Irritation: 2A

H340-Germ Cell Mutagenicity: 1A

H350-Carcinogenicity: 1A

H373-Specific Target Organ Toxicity: 2

PHYSICAL HAZARDS Category

H225-Flammable Liquids: 2

ENVIRONMENTAL HAZARD

Acute environmental Hazards: Not classified

Chronic environmental Hazards: Not classified

Pictogram or Hazard Symbols



DANGER: Toxic if swallowed.
Toxic in contact with skin.



WARNING: Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.



Danger: May cause genetic defects.
May cause cancer.
May cause damage to organs: blood, kidneys, liver, mucuous membranes, bone marrow, central nervous system (CNS)



DANGER: Highly flammable liquid and vapour.

Precautionary Statement.

H301

P264 Wash thoroughly after handling.

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

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P330 Rinse Mouth.

P405 Store locked up.

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

H311

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.

P312 Call a physician if you feel unwell

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

P405 Store locked up.

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

H332

P261 Avoid breathing fumes/mist/vapors.

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.

H315

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.

H340

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

P308 + P313 If exposed or concerned: Get medical advice/attention.

P405 Store Locked up

P501 Dispose of contents/container to... in accordance with local/regional/national/international regulations (to be specified)

H350

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understand.

P281 Use personal protective equipment as required.
P308 + P313 If exposed or concerned: Get medical advice/attention.
P405 Store locked up

H373

P260 Do not breathe fume/gas/mist/vapors.
P314 Get medical advice/attention if you feel unwell.
H272
P210 Keep away from heat, flames, and hot surfaces. No smoking.
P220 Store away from combustible materials. Incompatible with: reducing agents, easily oxidized materials, organic materials and metal powders.
P221 Take any precaution to avoid mixing with combustibles.
P370 + P378 In case of fire (see section 5)

H224, H225, or H226:

P210 Keep away from heat, flames, and hot surfaces. No smoking.
P233 Keep container tightly closed.
P241 Use explosive-proof equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves, clothing, and eye and face protection.
P303 + P361 + P353 If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
62-53-3	Xylene	50 v/v
1330-20-7	Aniline	50 v/v

Section 4 - First Aid Measures

Eye Exposure: Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage or blindness. Seek medical attention.

Dermal Exposure: Obtain medical attention: Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing, get medical attention. May cause deep, penetrating burns.

Oral Exposure: Will cause severe burns to the mouth and severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately. Do not induce vomiting; give large quantities of water.

Inhalation Exposure: If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of vapors may cause coughing choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.

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: CLOSED CUP: 25° C (77° F) OPEN CUP: 28.9°C (84°F)

Flammable Limits: LOWER: 1.1% UPPER: 7%

Auto ignition Temperature: 527 deg C (980 deg F)

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

Methods for Cleaning up: Ventilate area of leak or spill. Stop leak if possible to do so without risk. Clean-up personnel should wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite. Neutralize with alkaline material such as soda ash or lime. Do not use combustibles. Do not flush to sewer.

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. Vapors heavier than air, may travel considerable distance and ignite or explode.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

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: Liquid

Appearance: Colorless

Odor: N/A

pH: N/A

Melting point: 12°C

Vapor Pressure: 9 mm of Hg @ 20° C

Vapor Density (Air=1): 3.7 (Air=1)

Boiling Point: 138°C (280.4°F)

Specific Gravity/Density: 0.86 (water=1)

Solubility in/Miscibility: Completely miscible with methanol, diethyl ether. Insoluble in cold water, hot water.

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to avoid: Excess heat, sunlight, confined spaces.

Incompatibilities with other materials: Reactive with oxidizing agents

Section 11 - Toxicological Information

LD50/LC50:

CAS# 62-53-3:

Oral rat LD50: 250 mg/kg.

Oral mouse LD50: 464 mg/kg.

Skin: rabbit LD50: 820 mg/kg

Skin: rat LD50: 1400 mg/kg

Carcinogenicity:

CAS# 62-53-3: Classified possible for animals. Not classifiable for humans by ARC.

Mutagenicity: Mutagenic for bacteria and yeast.

LD50/LC50:

CAS# 1330-20-7:

Oral rat LD50: 4300 mg/kg.

Oral mouse LD50: 2119 mg/kg.

Skin: rabbit LD50: 1700 mg/kg

Carcinogenicity:

CAS#1330-20-7 Not classifiable for humans by ARC.

Mutagenicity: Not Available

Special Remarks on other Toxic Effects on Humans:

LDL [Human] Oral 50mg/kg man, oral: dose: 10000 ppm/6H

Section 12 - Ecological Information

Bioaccumulation: Ehen released into the soil, this material is not expected to biodegrade. When released into the soil, this material may leach into groundwater.

Environmental Toxicity: This material is expected to be toxic to aquatic life.

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 wasted facility.

Section 14 – Transport Information

DOT

Class 6.1, 3

Toxic Liquids, Flammable, Organic, N.O.S. (Aniline & Xylene)

UN2929

PG II

Section 15 - Regulatory Information

Symbol: T Toxic
F Flammable.

Risk and Safety phrases**Risk Phrases:**

R11 Highly flammable.

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: May 11, 2012

Revision # 1 YM 4/30/14 MH 6/23/14

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