## Section 1. Product and Company Identification

**Product Name** Anisole
**CAS Number** 100-66-3

**Parchem - fine & specialty chemicals**
**415 Huguenot Street**
**New Rochelle, NY 10801**
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

## Section 2. Hazards Identification

**Classification of the substance or mixture**
**Classification of the substance or mixture in accordance with 29CFR 1910.1200**
**Flammable liquids:** Category 3
**Acute aquatic toxicity:** Category 2

**GHS Label Elements**
**Pictograms:**

**Signal word:** WARNING

**Hazard and precautionary statements**
**Hazard Statements:** Flammable liquid and vapor. Toxic to aquatic life.

**Precautionary Statements**
**Prevention:** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/pump equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. Wash skin thoroughly after handling. Avoid release to the environment.

**Response**
**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Wash/Rinse skin with water/shower. Wash contaminated clothing before reuse.
**IN CASE OF FIRE:** Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
**IF EXPOSED OR CONCERNED:** GET MEDICAL ADVICE/ATTENTION.

**Storage:** Store in a well-ventilated place. Keep cool.
**Disposal:** Dispose of contents/container to an approved waste disposal plant.

## Section 3. Composition / Information on Ingredients

**Common Name** Anisole
**Synonym(s)** Methoxybenzene; Benzene, methoxy; Ethyl, methyl phenyl; Methyl phenyl ether; Phenyl methyl ether
**Formula** $C_7H_8O$
**CAS Number** 100-66-3

| COMPONENT | CAS NUMBER | CONCENTRATION |
|---|---|---|
| Anisole | 100-66-3 | 99.8% |

## Section 4. First Aid Measures

**Contact a physician immediately:** Show this safety data sheet to the doctor in attendance.
**Inhalation:** Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek immediate medical attention.
**Skin:** In case of contact, immediately wash with plenty of soap and water for at least 5 minutes.
**Eyes:** Flush with a steady, gentle stream of water.
**Ingestion:** Do not induce vomiting, unless directed to do so by a physician. If victim is conscious and alert, rinse mouth immediately and give 2-3 glasses of water to drink. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

## Section 5. Firefighting Measures

**Suitable extinguishing media:** For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
**Unsuitable extinguishing media:** Full water jet.
**Specific hazards during firefighting:** Product will burn under fire conditions. Oxides of carbon may form. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail. Under fire conditions, toxic, corrosive fumes are emitted. Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
**Special protective equipment for firefighters:** Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.

**Further information:** Use water spray to cool unopened containers.
**Flash Point:** 51°C (124°F).
**Autoignition Temperature:** 475°C (887.00°F)

## Section 6. Accidental Release Measures

**Personal precautions:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
**Containment precautions:** Stop leak if it can be done without risk. Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal. Follow procedure described below under Methods for Cleaning Up.
**Methods for Cleaning Up:** Pump any free liquid into an appropriate closed container. Use non-sparking tools. Recover as much liquid product as possible. Absorb with inert absorbent. Shovel up into an appropriate closed container. Clean up residual material by washing area with water. The material should be properly packaged and disposed of in compliance with applicable regulations.
**Environmental and Regulatory Reporting:** Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies. Dispose of as a hazardous waste.

## Section 7. Handling and Storage

**Precautions for Safe Handling:** If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapor/spray. Wash thoroughly after handling. Do not get in eyes. Avoid direct or prolonged contact with skin. Keep away from sources of ignition-No smoking. Take measures to prevent the build-up of electrostatic charge. Use non-sparking tools and grounded/bonded equipment and containers when transferring.

**Further information on handling**
**ATTENTION:** Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

**Conditions for Safe Storage:** Store in tightly closed containers. Store in an area that is cool, dry, well ventilated, and away from ignition sources. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Certain state and local regulations may limit storage quantities, arrangements and locations. These regulations should be considered for storage and handling of this and any other flammable liquid.

## Section 8. Exposure Controls / Personal Protection

**Introductory Remarks:** These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**Exposure Guidelines:** No occupational exposure limit values were found for this product or any of its ingredients.

**Engineering Controls:** If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapor/spray. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Respiratory Protection:** When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate OSHA, WHMIS or ANSI standard(s): Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against organic vapors, dusts, mists and fumes.

**Eye/Face Protections:** Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.

**Skin Protection:** Skin contact should be minimized through use of gloves and suitable long sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance. Recommended glove material: PVC or nitrile rubber. Consult with PPE supplier for application-specific recommendation.

**Work Practice Controls:** Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

Wash exposed skin promptly to remove accidental splashes or contact with this material.

## Section 9. Physical and Chemical Properties

**Physical state:** Liquid
**Color:** water-white, clear, free of suspended matter
**Odor:** Aromatic
**Odor threshold:** Not available
**pH:** Not available
**Melting point/freezing point:** -37°C (-35°F)
**Initial boiling point/range:** 153 to 155°C (307 to 311°F) @ 760 mm Hg
**Flash point:** 51°C (124°F)
**Evaporation rate:** Not available
**Flammability (solid, gas):** Not available

**Flammability or explosive limits**
**Lower:** 0.3 vol. %
**Upper:** 6.3 vol. %

**Vapor pressure:** 4.679 hPa (3.510 mmHg) at 25O°C (77O°F)
**Vapor density:** 3.72
**Relative density:** 0.993 to 0.996 @ 20/4°C.
**Solubility(ies):** slightly soluble; 0.15 wt/wt% at 25 C (77 F).
**Partition coefficient n-octanol/water log Pow:** 2.62 at 30OC (86OF)
**Auto-ignition temperature:** 475C°(887.00°F)
**Decomposition temperature:** Not available
**Viscosity:** 1.52 mPa-s

## Section 10. Stability and Reactivity

**Reactivity:** Hazardous polymerization will not occur.
**Conditions to Avoid:** Extreme heat, open flame, spark, static electricity, ignition sources.
**Incompatible Materials:** Strong bases, strong acids, strong oxidizing agents.
**Hazardous Decomposition Products:** Oxides of carbon.
**Possibility of hazardous reactions:** Not available

## Section 11. Toxicological Information

**Acute toxicity**
**LD50 Oral:** Rat - 3,700 mg/kg
**Remarks:** Behavioral: Somnolence (general depressed activity).
**Gastrointestinal:** Changes in structure or function of salivary glands. Kidney, Ureter, Bladder Hematuria.

**LC50 Inhalation:** Rat - > 5,000 mg/m3
**Dermal:** Repeated exposure may cause skin dryness or cracking. No data available

**Skin corrosion/irritation**
**Skin:** Rabbit
**Result:** Mild skin irritation (OECD Test Guideline 404)

**Serious eye damage/eye irritation**
**Eyes:** Rabbit
**Result:** No eye irritation (OECD Test Guideline 405)

**Respiratory or skin sensitization:** No data available
**Germ cell mutagenicity:** Laboratory experiments have shown mutagenic effects.

**Carcinogenicity**
**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
**Reproductive toxicity:** No data available
**Specific target organ toxicity - single exposure:** May cause drowsiness or dizziness.
**Specific target organ toxicity - repeated exposure:** Repeated exposure may cause skin dryness or cracking.
**Aspiration hazard:** No data available

**Additional Information**
**RTECS:** Not available. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Ingestion of large amounts may cause bladder effects. Liver injury may occur. Kidney injury may occur. It has a narcotic action and acts as a depressant on the central nervous system.

## Section 12. Ecological Information

**Toxicity**
**Toxicity to fish:** LC50 - Danio rerio (zebra fish) - > 1 mg/l - 96 h
**Toxicity to daphnia and other aquatic invertebrates:** EC50 - Daphnia (water flea) - 11.05 mg/l - 24 h

**Persistence and degradability**
**Biodegradability Result:** Biodegradable. No data available

**Bioaccumulative potential:** Bioaccumulation Gambusia affinis (Mosquito fish) - 24 h - 8.54 µg/l
**Bioconcentration factor (BCF):** 22
**Mobility in soil:** No data available
**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

## Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

## Section 14. Transport Information

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

**US DOT**
**Hazard Class:** 3
**Shipping Name:** ANISOLE
**ID Number:** UN2222
**Packing Group:** III
**Emergency Guide#:** 127

**TDG**
**Hazard Class:** 3
**Shipping Name:** ANISOLE
**ID Number:** UN2222
**Packing Group:** III
**IMO**
**Hazard Class:** 3
**Shipping Name:** ANISOLE
**ID Number:** UN2222
**Packing Group:** III

**IMDG**
**Hazard Class:** 3
**Shipping Name:** ANISOLE
**ID Number:** UN2222
**Packing Group:** III
**EMS-No:** F-E, S-D

**IATA**
**Hazard Class:** 3
**Shipping Name:** ANISOLE
**ID Number:** UN2222
**Packing Group:** III

## Section 15. Regulatory Information

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.
**SARA 311/312 Hazards:** Fire Hazard

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.
**Pennsylvania Right To Know Components:** Anisole, CAS-No. 100-66-3, Revision Date 2007-03-01

**New Jersey Right To Know Components:** Anisole, CAS-No. 100-66-3, Revision Date 2007-03-01
**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**US Federal**
**TSCA:** CAS# 100-66-3 is listed on the TSCA Inventory.

**National Fire Protection Association Hazard Ratings (NEPA)**
**1:** Health Hazard Rating -- Slight
**2:** Flammability Rating -- Moderate
**0:** Instability Rating - Minimal

**National Paint & Coatings Hazardous Materials Identification System (HMIS)**
**1:** Health Hazard Rating -- Slight
**2:** Flammability Rating -- Moderate
**0:** Reactivity Rating - Minimal

## Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 9/27/2017