

# SAFETY DATA SHEET

ISK BIOCIDES, INC.

## SECTION 1: Identification

**Product identifier:** PQ-80®.  
**Other means of identification:** PQ-80 Antimicrobial - Preservative.  
**SDS number:** ISK017  
**Recommended use:** Controls decay, stain, mold, rot, mildew and termites on wood.  
**Recommended restrictions:** None known.  
**Manufacturer/Importer/Supplier/Distributor information:**  
**Company name:** ISK Biocides, Inc.  
**Address:** 416 East Brooks Road,  
Memphis.  
TN 38109.  
**Telephone:** Office hours (Mon – Fri)  
7:00 – 4:30pm (Central time).  
(901) 344-5350 or (800) 248-7961.  
**Contact Person:** Anthony Accampo or Gail Watson  
**E-mail:** SDSInquiry@iskbiocides.com  
**Emergency phone number:** Chemtrec (800) 424-9300 (24 hours).

## SECTION 2: Hazard(s) identification

**Classification of the chemical in accordance with paragraph (d) of §1910.1200:**

***Physical hazards:***

None.

***Health hazards:***

Acute toxicity (oral), Category 4.  
Serious eye damage, Category 2A.  
Acute toxicity (inhalation - vapor), Category 2.

***Environmental hazards:***

Acute aquatic toxicity, Category 1.  
Chronic aquatic toxicity, Category 1.

**Signal word:** DANGER

**Hazard statement(s):** Harmful if swallowed.  
Causes serious eye irritation.  
Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

**Hazard symbol(s):**



**Precautionary statement(s):**

**Prevention:**

Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear eye protection/face protection.

**Response:**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
If eye irritation persists get medical advice/attention.  
Immediately call a POISON CENTER or doctor/physician.  
Specific treatment is urgent (see instructions on this label).  
Rinse mouth.  
Collect spillage.

**Storage:**

Store in a well ventilated place. Keep container tightly closed.

**Disposal:**

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

**Hazard(s) not otherwise Classified (HNOC):**

None known.

**Percentage of ingredient(s) of unknown acute toxicity:**

72% of the mixture consists of ingredients of unknown acute toxicity (oral/dermal/inhalation).

### SECTION 3: Composition/information on ingredients

**Mixture:**

Chemical name	Concentration (weight %)	CAS#
C10-16-alkylbenzene sulfonic acid	59	68584-22-5
Benzene, C10-16-Alkyl derivatives.	0.6	68648-87-3
Copper 8-Quinolinolate	10	10380-28-6
Ethanol	1.6 – 1.7	64-17-5
Methanol	0.35	67-56-1
Isopropanol	0.3	67-63-0

### SECTION 4: First-aid Measures

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.

**Eye contact:** Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Ingestion:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**Most important symptoms/effects, acute and delayed:** Corrosive. Causes irreversible eye damage. Can cause severe irritation and damage to mucosal surfaces. Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause severe irritation to upper respiratory tract. Prolonged or repeated contact may result in severe skin irritation and possible burning. Prolonged or repeated contact may result in itching, defatting, and dermatitis.

**Indication of immediate medical attention and special treatment needed:** If any symptoms described above are noted, contact a physician and give them this SDS sheet.

## SECTION 5: Fire-fighting measures

**Suitable extinguishing media:** Alcohol foam, carbon dioxide, dry chemical.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** Fumes and vapors may contain sulfur dioxide.  
*Hazardous combustion products may include:* Carbon monoxide, Carbon dioxide, Sulfur compounds.

**Special protective equipment and precautions for fire-fighters:** Wear special chemical protective clothing and positive pressure self-contained breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Decontaminate or discard any clothing that may contain chemical residue.

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Methods and materials for containment and cleaning up:**

**SMALL SPILL:** Wear appropriate protective clothing (see Section 8). Recover free liquid. Absorb remainder with sand or clay and place in a waste receptacle. Neutralize carefully with lime, sodium carbonate, or sodium bicarbonate.

**LARGE SPILL:** Wear appropriate protective clothing (see Section 8). Eliminate all ignition sources. Restrict access to contaminated area. Stop spill at source. Dike to prevent spreading. Pump liquid to a recovery vessel. Neutralize carefully with lime, sodium carbonate, or sodium bicarbonate. Absorb remainder of material with sand or clay and place in a properly labeled waste receptacle. Follow all local, state, and federal regulations for disposal. Do not contaminate water while cleaning equipment or disposing of wastes. Prohibit contamination of streams, lakes, or other bodies of water.

## SECTION 7: Handling and Storage

**Precautions for safe handling:** Observe good personal hygiene practices. Change protective gloves/clothing when signs of contamination appear. Keep out of reach of children. Avoid getting this material into contact with your skin and eyes. Use this product with adequate ventilation. Read and follow the directions on the product label; they are the best guide to using this product in the most effective way, and give the necessary safety precautions to protect your health.

**Conditions for safe storage, including any incompatibles:** Store away from food or feed in a secure, well ventilated area protect from extreme temperatures. Do not transfer to an unmarked container. Keep container closed when not in use. Do not store or use in vicinity of sparks, open flame, or other ignition sources. (See Section 10 for incompatibles). This product is toxic

to fish. DO NOT apply directly to water. DO NOT contaminate water by cleaning of equipment or disposal of wastes.

**SECTION 8: Exposure controls/personal protection**

**Control Parameters:**  
**Occupational exposure limits:**

<b>US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits</b>		
<b>Substance</b>	<b>PEL-TWA (8 hour)</b>	<b>PEL-STEL (15 min)</b>
C10-16-alkylbenzene sulfonic acid	None available	None available
Benzene, C10-16-Alkyl derivatives.	None available	None available
Copper 8-Quinolinolate	0.1 mg/m <sup>3</sup> (as Cu fume) 1 mg/m <sup>3</sup> (as Cu dust)	None available
Ethanol	1000 ppm (1900 mg/m <sup>3</sup> )	None available
Methanol	200 ppm (260 mg/m <sup>3</sup> )	250 ppm (325 mg/m <sup>3</sup> )
Isopropanol	400 ppm (980 mg/m <sup>3</sup> )	500 ppm (1225 mg/m <sup>3</sup> )

<b>ACGIH Threshold Limit Values</b>		
<b>Substance</b>	<b>TLV-TWA (8 hour)</b>	<b>TLV-STEL (15 min)</b>
C10-16-alkylbenzene sulfonic acid	None available	None available
Benzene, C10-16-Alkyl derivatives.	None available	None available
Copper 8-Quinolinolate	None available	None available
Ethanol	1000 ppm (1900 mg/m <sup>3</sup> )	None available
Methanol	200 ppm (260 mg/m <sup>3</sup> )	250 ppm (325 mg/m <sup>3</sup> )
Isopropanol	400 ppm (980 mg/m <sup>3</sup> )	500 ppm (1225 mg/m <sup>3</sup> )

**Other Exposure Limits:** Ethanol NIOSH TWA – 1000ppm (1900mg/m<sup>3</sup>)  
 (National Institute for Occupational Safety and Health).

Methanol NIOSH TWA – 200ppm (260mg/m<sup>3</sup>) STEL 250 ppm (325 mg/m<sup>3</sup>), (National Institute for Occupational Safety and Health).

Isopropanol NIOSH TWA – 400ppm (980mg/m<sup>3</sup>) STEL 500 ppm (1225 mg/m<sup>3</sup>), (National Institute for Occupational Safety and Health).

**Appropriate engineering controls:** Ventilate via mechanical methods (general or local exhaust) to maintain exposure below TLV(s), if applicable. Good industrial hygiene practice dictates that indoor work areas should be isolated and provided with adequate local exhaust ventilation.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Wear chemical splash goggles and/or face shield during mixing and when exposed to mist.

**Skin and Hand protection:** Wear impervious gloves, such as: Nitrile Rubber, Neoprene, PVA, PVC, or NBR(Buna-N). Special precautions should be taken to ensure that material cannot get inside gloves.

**Respiratory protection:** None normally required if good ventilation is maintained. If mist is generated during application process, an acid mist respirator is recommended.

**Other:** None normally required. Use as necessary to prevent exposure. Safety showers and eyewash stations should be provided in all areas in which this product is stored and/or handled. Persons exposed routinely to this material should shower prior to leaving work each day. Work clothing should be changed daily.

**Thermal hazards:** None known.

**SECTION 9: Physical and chemical properties**

**Appearance:**

**Physical state:** Liquid.  
**Form:** Viscous dark orange / brown liquid.  
**Color:** Dark orange / brown.

**Odor:** Petroleum distillate.

**Odor threshold:** Not known.

**pH:** 2.0 – 2.5

**Melting point/freezing point:** Not known.

**Initial Boiling point/Boiling Range:** 212°F.

**Flash point:** > 113 °C PMCC.

**Evaporation rate:** > 1 (nBuAC=1)

**Flammability (solid, gas):** Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit – lower:** Not Established.  
**Flammability limit – upper:** Not Established.  
**Explosive limit – lower:** Not Established.  
**Explosive limit – upper:** Not Established.

**Vapor pressure:** Unknown.  
**Vapor density:** > 1 (air = 1).  
**Relative density (Specific gravity):** 1.13  
**Solubilities (water, other):** Soluble.  
**Partition coefficient (n-octanol/water):** Not available.  
**Auto-ignition temperature:** Not known.  
**Decomposition temperature:** Not available.  
**Viscosity:** 175 - 500 cPs Brookfield #2 @ 20 rpm at 70°F.  
**Other information:**  
**Bulk density:** 9.0 - 9.5 lbs per gal (weight per gallon cup).  
**VOC:** 228 g/L – 1.90 lbs/gal – 21.1 weight %

**SECTION 10: Stability and Reactivity**

**Reactivity:** Stable.

**Chemical stability:** This material is stable under normal handling and storage conditions.

**Possibility of hazardous reactions:** Thermal decomposition may produce toxic fumes.

Material is not known to polymerize.

**Conditions to avoid:** None known.

**Incompatible materials:** Alkalines, Strong oxidants.

**Hazardous decomposition Products:** Carbon monoxide, Carbon dioxide, Sulfur compounds.

**SECTION 11: Toxicological information**

**Information on likely routes of exposure:**

**Inhalation:** Can cause severe irritation and damage to mucosal surfaces. Can cause nasal and respiratory irritation, dizziness, nausea, vomiting, headache, and weakness. May cause severe irritation to upper respiratory tract.

**Ingestion:** Can cause severe irritation and damage to mucosal surfaces. Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Skin:** Prolonged or repeated contact may result in severe skin irritation and possible burning. Prolonged or repeated contact may result in itching, defatting, and dermatitis.

**Eye:** Corrosive. Causes irreversible eye damage.

**Symptoms related to the physical, chemical, and toxicological characteristics:** None known.

**Delayed and immediate effects and chronic effects from short or long-term exposure:** None known.

**Acute toxicity:**  
**Ingredient Information:**

Substance	Test Type (species)	Value
C10-16-alkylbenzene sulfonic acid	LD50 Oral (Rat)	> 2000 mg/kg
	LD50 Dermal (Rabbit)	> 2000 mg/kg
	LC50 Inhalation, (Rat)	Not available
Benzene, C10-16-Alkyl derivatives.	LD50 Oral (Rat)	>15800 mg/kg
	LD50 Dermal (Rabbit)	5010 mg/kg
	LC50 Inhalation, (Rat)	Not available
Copper 8-Quinolinolate	LD50 Oral (Rat)	9930 mg/kg
	LD50 Dermal (Rabbit)	> 2000 mg/kg
	LC50 Inhalation (Rat)	820 mg/m3
Ethanol	LD50 Oral (Rat)	7060 mg/kg
	LD50 Dermal (Rabbit)	Not available
	LC50 Inhalation, Vapor (Rat) 10h	20000 ppm
Methanol	LD50 Oral (Rat)	1187 - 2769 mg/kg
	LD50 Dermal (Rabbit)	17100 mg/kg
	LC50 Inhalation, Vapor (Rat)	4 h - 128.2 mg/l 6 h - 87.6 mg/l
Isopropanol	LD50 Oral (Rat)	5045 mg/kg
	LD50 Dermal (Rabbit)	12800 mg/kg
	LC50 Inhalation, Vapor (Rat)	16000 ppm

**Product Acute Toxicity Estimates:**

Oral: Rat - LD50 – 1030 mg/kg.  
Dermal: Rat - LD50 - > 2000 mg/kg.  
Inhalation (4h): Rat - LC50 – 0.53 – 2.03 mg/l.

**Skin corrosion/irritation:** Primary Dermal Irritation (rabbit): corrosive.

**Serious eye damage/eye irritation:** Primary Eye Irritation (rabbit): not conducted, assumed corrosive based on skin irritation results.

**Respiratory sensitization:** Based upon information available on the known components, the product is not anticipated to cause respiratory sensitization.



**Skin sensitization:** Dermal Sensitization: Negative - not a sensitizer.

**Germ cell mutagenicity:** Based upon information available on the known components, the product is not anticipated to cause germ cell mutagenicity.

**Carcinogenicity:** Based upon information available on the known components, the product is not anticipated to be carcinogenic.

**Reproductive toxicity:** Based upon information available on the known components, the product contains a component known to cause birth defects or other reproductive harm (Methanol).

**Specific target organ toxicity-  
Single exposure:** Based upon information available on the known components, the product is not anticipated to cause specific target organ toxicity after a single exposure.

**Specific target organ toxicity-  
Repeat exposure:** Based upon information available on the known components, the product is not anticipated to cause specific target organ toxicity after repeated or prolonged exposure.

**Aspiration hazard:** Based upon information available on the known components, the product is not anticipated to be an aspiration hazard.

**Further information:** Not available.

**SECTION 12: Ecological information**

**Ecotoxicity**

**Product data:** No data available.

**Ingredient Information:**

Substance	Test Type	Species	Value
C10-16-alkylbenzene sulfonic acid	LC <sub>50</sub>	Fish	Not available
	EC <sub>50</sub> Ceriodaphnia dubia (Water flea)	Invertebrate	5.65 mg/l – 48h

	LC <sub>50</sub>	Algae	Not available
Benzene, C10-16-Alkyl derivatives.	LC <sub>50</sub>	Fish	Not available
	EC <sub>50</sub>	Invertebrate	Not available
	LC <sub>50</sub>	Algae	Not available
Copper 8-Quinolinolate	LC <sub>50</sub> Oncorhynchus mykiss (rainbow trout)	Fish	140ug/L – 48h
	EC <sub>50</sub> Daphnia magna (Water flea)	Invertebrate	163 ppb – 48h
	LC <sub>50</sub>	Algae	Not available
Ethanol	LC <sub>50</sub>	Fish	Not available
	EC <sub>50</sub>	Invertebrate	Not available
	LC <sub>50</sub>	Algae	Not available
Methanol	LC <sub>50</sub> Lepomis macrochirus (Bluegill)	Fish	15400 mg/l - 96 h
	EC <sub>50</sub> Daphnia magna (Water flea)	Invertebrate	> 10000 mg/l - 48 h
	LC <sub>50</sub> Scenedesmus capricornutum (fresh water algae)	Algae	22000 mg/l - 96 h
Isopropanol	LC <sub>50</sub> Pimephales promelas (fathead minnow)	Fish	9640 mg/l - 96 h
	EC <sub>50</sub> Daphnia magna (Water flea)	Invertebrate	5102 mg/l - 24 h
	LC <sub>50</sub> Desmodesmus subspicatus (green algae)	Algae	> 2000 mg/l - 72 h

**Persistence and degradability:** Not available.  
**Bioaccumulative potential:** Not available.  
**Mobility in soil:** Not available.  
**Mobility in general:** Not available.  
**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**SECTION 13: Disposal considerations**

**Disposal instructions:**  
 If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the

nearest EPA Regional Office for guidance. Open dumping is prohibited. Pesticide wastes are acutely hazardous. Do not reuse empty container. Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**SECTION 14: Transport Information**

**DOT:** UN 3082, Environmentally hazardous substance, Liquid, n.o.s. (dodecylbenzenesulfonic acid), 9, PG III.

**IATA:** UN 3082, Environmentally hazardous substance, Liquid, n.o.s. (dodecylbenzenesulfonic acid), 9, PG III.

**IMDG:** UN 3082, Environmentally hazardous substance, Liquid, n.o.s. (dodecylbenzenesulfonic acid), 9, PG III.

**Special precautions during transport:** Not available.

**Bill of lading classification** = Preservatives, wood, n.o.i NMFC 161490, sub 2.

**SECTION 15: Regulatory Information**

**USA:**

**FIFRA:** Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

DANGER.

Harmful if swallowed.

Corrosive. Causes irreversible eye damage.

This pesticide is toxic to fish.

**United States Federal Regulations:** SDS complies with the OSHA, 29 CFR 1910.1200.

**SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:**

The following components are subject to reporting levels established by SARA Title III, Section 302: None.

CHEMICAL	C.A.S. Number	Weight %	Section 311/312
C10-16-alkylbenzene	68584-22-5	59	Not listed.

sulfonic acid			
Benzene, C10-16-Alkyl derivatives.	68648-87-3	0.6	Not listed.
Copper 8-Quinolinolate	10380-28-6	10	Fire Hazard.
Ethanol	64-17-5	1.6 – 1.7	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
Methanol	67-56-1	0.35	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
Isopropanol	67-63-0	0.3	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.

**Section 313 – List of Toxic Chemicals (40CFR 372):** This product contains the following components (at level of 1% or greater) found on the 313 list of Toxic Chemicals. Copper 8-Quinolinolate (listed under copper compounds), Methanol, Isopropanol.

**Toxic Substance Control Act (TSCA):** All substances are TSCA listed.

**STATE REGULATIONS:**

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**California Proposition 65:** WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Methanol.

**New Jersey Right to Know:** The following components are listed on the New Jersey Right to Know list: Copper 8-Quinolinolate (listed under copper compounds), Ethanol, Methanol, Isopropanol, Benzene, C10-16-Alkyl derivatives (as Petroleum oil).

**Pennsylvania Right to Know:** The following components are listed on the Pennsylvania Right to Know list: Ethanol, Methanol, Isopropanol, C10-16-Alkyl derivatives (as Mineral oil mist).

**Massachusetts Right to Know:** The following components are listed on the Massachusetts Right to Know list: Copper 8-Quinolinolate (listed under copper compounds), Ethanol, Methanol, Isopropanol.

## **INTERNATIONAL REGULATIONS:**

**Canadian Regulations** Class D1A: Very toxic material causing immediate and serious toxic effects.

**Canadian Controlled Products Regulations (WHMIS):** This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*.

## **SECTION 16: Other Information**

Revision Date: July 15, 2016.

The information in this Safety Data Sheet is provided in good faith and is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance and is not to be considered a warranty or quality specification. User is responsible to evaluate all available information when using product for any particular use, including, if necessary, conducting any tests needed to determine the suitability of the product for a particular use. User is also responsible for compliance with all Federal, State, Provincial and Local laws and regulations. ISK Biocides, Inc. assumes no responsibility for injury, damage or loss resulting from the use of the material. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, INCLUDING THAT THE INFORMATION OR PRODUCT MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS, ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

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