



Revision date: Initial version Date of issue: 06.06.2016

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Product name: P	PQ-8 Canadian
1. Identification	
Product identifier:	
Trade Name:	PQ-8 Canadian.
Other means of identifica	ation:
Synonyms:	PQ-8 Liquid Antimicrobial Concentrate.
SDS number:	ISK091
Recommended use and re	estrictions on use:
Recommended use:	For control of sapstain and mould in freshly cut lumber and
Lecommented uper	timber.
Recommended restriction	<b>ns:</b> Not intended for human consumption.
Initial supplier identifier	:
Company Name:	ISK Biocides, Inc.
Company Address:	416 East Brooks Road,
	Memphis.
	TN 38109.
<b>Company Telephone:</b>	
	7:00 - 4:30 pm (Central time).
	(901) 344-5350 or (800) 248-7961
Company Contact Na	
Company Contact En	

**Emergency telephone number and any restrictions on the use of that number, if applicable:** Chemtrec (800) 424-9300 (24 hours).

# 2. Hazard identification

**Classification of the chemical in accordance with Hazardous Products Regulations (WHMIS 2015):** 

# **WHMIS Classification**

B3	Flammable and combustible material	Combustible Liquids: Flashpoint of 37.8°C–93.3°C
		(100°F–200°F)
D1A	Very Toxic Material at $\geq 1\%$	Inhalation Toxicity
		Gas $LC_{50} \le 2500 \text{ ppm}$
		Vapour $LC_{50} \le 1500 \text{ ppm}$
		Dust, mist, fumes $LC_{50} \le 500 \text{ mg/m3}$

E Corrosive Material at  $\geq 1\%$ 

Causes irreversible damage/necrosis of skin tissue

*GHS Physical hazards* Flammable liquid, Category 3.

# GHS Health hazards

Acute toxicity (oral), Category 4. Acute toxicity (inhalation-vapour), Category 1. Skin corrosion, Category 1B. Serious eye damage, Category 1.

#### **Environmental hazards**

Not adopted under WHMIS 2015

**GHS Signal word:** 

#### DANGER.

**GHS Hazard statement(s):** 

H226 - Flammable liquid and vapour.H302 - Harmful if swallowed.H314 - Causes severe skin burns and eye damage.H330 - Fatal if inhaled

**GHS Hazard symbol(s):** 



# **GHS Precautionary statement**(s):

#### **Prevention:**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground and bond container and receiving equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 [In case of inadequate ventilation] wear respiratory protection.

#### ٠

## **Response:**

- P301+P310 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P320 Specific treatment is urgent (see sections 4 to 8 on this SDS and any supplementary information on the label).
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use alcohol foam, carbon dioxide or dry chemical to extinguish.

# Storage:

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.

# **Disposal:**

• P501 - Dispose of contents/container to a suitable treatment site in accordance with local/regional/international regulations.

# Physical hazards not otherwise classified (PNOC):

None known.

# Health hazard(s) not otherwise classified (HNOC):

Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Can cause nasal and respiratory irritation, dizziness, nausea, vomiting, headache, and weakness. Excessive breathing of vapours may result in unconsciousness, and possibly death. Prolonged or repeated contact may result in severe skin irritation and possible burning. Prolonged exposure may result in material being absorbed in harmful amounts.

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

Not applicable.

# 3. Composition/Information on ingredients

#### Mixture:

Chemical name	Concentration (weight %)	CAS#
Copper 8-Quinolinolate	5.4	10380-28-6
Ethanol	9.6 - 10.2	64-17-5
Methanol	0.6 - 2.2	67-56-1

Isopropanol	0 – 1.8	67-63-0
C10-16-alkylbenzene sulfonic acid	34	68584-22-5
Benzene, C10-16-Alkyl derivatives.	0.35	68648-87-3
Phosphoric acid	1.57 – 3.62	7664-38-2

Note: The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Hazardous Products Regulations (WHMIS 2015).

#### 4. First-aid measures

Description of necessary first-aid measures, subdivided according to the different routes of exposure (inhalation, ingestion, skin and eye contact):

**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.

**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.

**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 centre or doctor for treatment advice.

#### Most important symptoms and effects, whether acute or delayed:

Causes irreversible eye damage. Can cause severe irritation and damage to mucosal surfaces. Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Can cause nasal and respiratory irritation, dizziness, nausea, vomiting, headache, and weakness. Excessive breathing of vapours may result in unconsciousness, and possibly death. Prolonged or repeated contact may result in severe skin irritation and possible burning. Prolonged exposure may result in material being absorbed in harmful amounts. Non-sensitizer.

**Indication of immediate medical attention and special treatment needed, if necessary:** If any symptoms are observed, contact a physician and give them this SDS sheet. Treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media:** Alcohol foam, carbon dioxide, dry chemical. **Unsuitable extinguishing media:** High volume water jet.

#### Specific hazards arising from the hazardous product:

Fumes and vapours may contain sulfur dioxide. Vapours are heavier than air and may travel along the ground or may be moved by ventilation and ignited by ignition sources at locations distant from the material handling point.

Hazardous combustion products may include: Carbon monoxide, Carbon dioxide, Sulfur compounds.

#### Special protective equipment and precautions for firefighters:

Wear special chemical protective clothing and positive pressure self-contained breathing apparatus. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Decontaminate or discard any clothing that may contain chemical residue.

#### 6. Accidental release measures

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

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8).

See Sections 2 and 7 for additional information on hazards and precautionary measures.

#### **Environmental precautions:**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

#### Methods and materials for containment and cleaning:

Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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. Persons performing this work should wear adequate personal protective equipment and clothing. Prohibit contamination of streams, lakes, or other bodies of water.

### 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).

## 8. Exposure controls/Personal protection

Control parameters, including occupational exposure limit values or biological limit values and the source of those values:

Canada. Alberta, Occupational Health and Safety Code		
Substance	TWA	STEL
Copper 8-Quinolinolate	None known	None known
Ethanol	1000 ppm 1880 mg/m <sup>3</sup> □	
Methanol	200 ppm 262 mg/m <sup>3</sup> □	250 ppm 328 mg/m <sup>3</sup> □
Isopropanol	200 ppm 492 mg/m <sup>3</sup> □	400 ppm 984 mg/m <sup>3</sup> □
C10-16-alkylbenzene sulfonic acid	None known	None known
Benzene, C10-16-Alkyl derivatives.	None known	None known
Phosphoric acid	$1 \text{ mg/m}^3$	$3 \text{ mg/m}^3$

Canada. British Columbia OELs		
Substance	TWA	STEL
Copper 8-Quinolinolate	None known	None known
Ethanol	1000 ppm 1880 mg/m <sup>3</sup> □	1000 ppm
Methanol	200 ppm	250 ppm
Isopropanol	200 ppm	400 ppm

C10-16-alkylbenzene sulfonic acid	None known	None known
Benzene, C10-16-Alkyl derivatives.	None known	None known
Phosphoric acid	$1 \text{ mg/m}^3$	$3 \text{ mg/m}^3$

Ontario Occupational Exposure Limits		
Substance	TWAEV	STEV
Copper 8-Quinolinolate	None known	None known
Ethanol	1000 ppm 1900 mg/m <sup>3</sup>	None known
Methanol	200 ppm 262 mg/m <sup>3</sup> □	250 ppm 328 mg/m <sup>3</sup> □
Isopropanol	200 ppm	400 ppm
C10-16-alkylbenzene sulfonic acid	None known	None known
Benzene, C10-16-Alkyl derivatives.	None known	None known
Phosphoric acid	$1 \text{ mg/m}^3$	$3 \text{ mg/m}^3$

Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants		
Substance	TWAEV	STEV
Copper 8-Quinolinolate	None known	None known
Ethanol	1000 ppm 1880 mg/m <sup>3</sup> □	
Methanol	200 ppm	250 ppm
Isopropanol	400 ppm 983 mg/m <sup>3</sup> □	500 ppm 1230 mg/m <sup>3</sup> □
C10-16-alkylbenzene sulfonic acid	None known	None known
Benzene, C10-16-Alkyl derivatives.	None known	None known
Phosphoric acid	$1 \text{ mg/m}^3$	3 mg/m <sup>3</sup>

USA. ACGIH Threshold Limit Values (TLV)		
Substance TWA STEL		STEL

Copper 8-Quinolinolate	None known	None known
Ethanol	1000 ppm	1000 ppm
Methanol	200 ppm	250 ppm
Isopropanol	400 ppm	500 ppm
C10-16-alkylbenzene sulfonic acid	None known	None known
Benzene, C10-16-Alkyl derivatives.	None known	None known
Phosphoric acid	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>

**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). Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory protection:** If TLV for product or any component is exceeded, use a MSHA/NIOSH-approved respirator.

#### Other:

Impervious boots (nitrile rubber/neoprene/PVC), aprons, hats, or chemical suits should be worn when necessary to prevent skin contact. 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 established.

#### 9. Physical and chemical properties

Appearance (such as physical state and colour):		
Physical state:	Liquid	
Colour:	Clear orange.	
Odour:	Alcoholic.	
Odour threshold:	Not established	

pH:	0.5 - 1.5		
Melting point/freezing point:	Not known		
Initial Boiling Point and	Not known		
boiling range:			
Flash point:	101 °F PMCC		
Evaporation rate:	> 1 (nBuAC=1)		
Flammability (in the case of solids			
and gases):	Not applicable		
Upper and lower flammability or exp	**		
Flammability limit – lower %):	Not determined.		
Flammability limit – upper (%):	Not determined.		
Explosive limit – lower (%):	Not determined.		
Explosive limit – upper (%):	Not determined. Not determined.		
Vapour pressure:			
Vapour density (air=1):	> 1 (air = 1).		
Relative density (water = 1):	1.06		
Solubility:	Soluble.		
Partition coefficient	Soluble.		
n-octanol/water:	Not available		
Auto-ignition temperature:	Not available		
Decomposition temperature:	Not known Not established		
Viscosity:			
Č.	70 - 120 cPs Brookfield #1 @ 20 rpm at 70°F.		
Other information:	8 72 0 22 lbs per gel (weight per geller gun)		
Bulk density:	8.72-9.22 lbs per gal (weight per gallon cup).		
VOC (Weight %):	Not available.		

# **10. Stability and reactivity**

Reactivity: Chemical stability:	Stable. 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, including static discharge, shock or vibration: Incompatible materials: Hazardous decomposition products:	Heat, flames, ignition sources and incompatibles. Avoid alkalines, strong oxidants. May form carbon monoxide, carbon dioxide, sulphur compounds.

# 11. Toxicological information

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):		
Inhalation: An expected route of entry.		
Ingestion:	An expected route of entry.	

Skin:	An expected route of entry.
Eye contact:	An expected route of entry.
Target Organ(s):	Eyes, Heart, Lungs, Respiratory system, Liver, Kidneys, Central nervous system.

#### Symptoms related to the physical, chemical, and toxicological characteristics:

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

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

Skin: Non-sensitizer.

Eye: Corrosive. Causes irreversible eye damage.

#### Delayed and immediate effects and chronic effects from short or long-term exposure:

Excessive breathing of vapours may result in unconsciousness, and possibly death. Prolonged or repeated contact may result in severe skin irritation and possible burning. Prolonged exposure may result in material being absorbed in harmful amounts.

#### Numerical measures of toxicity including ATEs:

#### Acute toxicity estimates:

# **Ingredient Information:**

Substance	Test Type (species)	Value
Conner 9 LD <sub>50</sub> Oral (Rat)		9930 mg/kg
Copper 8- Quinolinolate	LD <sub>50</sub> Dermal (Rabbit)	> 2000 mg/kg
Quinoinioiate	LC <sub>50</sub> Inhalation (Rat)	820 mg/m3
	LD <sub>50</sub> Oral (Rat)	7060 mg/kg
Ethanol	LD <sub>50</sub> Dermal (Rabbit)	Not available
LC <sub>50</sub> Inhalation, Vapour (Rat) 10h		20000 ppm
	LD <sub>50</sub> Oral (Rat)	1187 - 2769 mg/kg
Methanol	LD <sub>50</sub> Dermal (Rabbit)	17100 mg/kg
LC <sub>50</sub> Inhalation, Vapour (Rat)		4 h - 128.2 mg/l 6 h - 87.6 mg/l
	LD <sub>50</sub> Oral (Rat)	5045 mg/kg
Isopropanol	LD <sub>50</sub> Dermal (Rabbit)	12800 mg/kg
	LC <sub>50</sub> Inhalation, Vapour (Rat)	16000 ppm
C10-16-	LD50 Oral (Rat)	> 2000 mg/kg
alkylbenzene	LD50 Dermal (Rabbit)	> 2000 mg/kg

sulfonic acid	LC50 Inhalation, (Rat)	Not available
	LD50 Oral (Rat)	>15800 mg/kg
Benzene, C10-16- Alkyl derivatives.	LD50 Dermal (Rabbit)	5010 mg/kg
	LC50 Inhalation, (Rat)	Not available
	LD <sub>50</sub> Oral (Rat)	1250 mg/m3
Phosphoric acid	LD <sub>50</sub> Dermal (Rabbit)	Not available
L	LC <sub>50</sub> Inhalation (Rat)	25.5 mg/m3

# **Product Acute Toxicity Estimates:**

Oral: Rat -  $LD_{50}$  – 1330 mg/kg. Dermal: Rat -  $LD_{50}$  - > 2020 mg/kg. Inhalation (4h): Rat -  $LC_{50}$  – 0.11 mg/l.

Skin corrosion/irritation:	Primary eye irritation rabbit: Corrosive. Causes irreversible eye damage.	
Serious eye damage/eye irritation:	Primary skin irritation rabbit: Corrosive. Can cause severe irritation and possible burning.	
Respiratory sensitization:	Based upon information available on the known components, the product is not anticipated to cause respiratory sensitization.	
Skin sensitization:	Dermal Sensitization: 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:	No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or on the ACGIH Carcinogens List.	
<b>Reproductive toxicity:</b>	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 may 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, other than symptoms produced by single exposure.
Aspiration hazard:	Based upon information available on the known components, the product is not anticipated to be an aspiration hazard.

# **12. Ecological information**

# Ecotoxicity (aquatic and terrestrial, if available):

# **Ingredient Information:**

Substance	Test Type	Species	Value
Copper 8-	LC <sub>50</sub> Oncorhynchus mykiss (rainbow trout)	Fish	140ug/L – 48h
Quinolinolate	EC <sub>50</sub> Daphnia magna (Water flea)	Invertebrate	163 ppb – 48h
	LC <sub>50</sub>	Algae	Not available
	LC <sub>50</sub>	Fish	Not available
Ethanol	EC <sub>50</sub>	Invertebrate	Not available
	LC <sub>50</sub>	Algae	Not available
	LC <sub>50</sub> Lepomis macrochirus (Bluegill)	Fish	15400 mg/l - 96 h
Methanol	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
	LC <sub>50</sub> Pimephales promelas (fathead minnow)	Fish	9640 mg/l - 96 h
Isopropanol	EC <sub>50</sub> Daphnia magna (Water flea)	Invertebrate	5102 mg/l - 24 h
	LC <sub>50</sub> Desmodesmus	Algae	> 2000 mg/l - 72 h

	subspicatus (green algae)		
C10.1C	LC <sub>50</sub>	Fish	Not available
C10-16- alkylbenzene sulfonic acid	EC <sub>50</sub> Ceriodaphnia dubia (Water flea)	Invertebrate	5.65 mg/l - 48h
	LC <sub>50</sub>	Algae	Not available
Dangana C10 16	LC <sub>50</sub>	Fish	Not available
Benzene, C10-16- Alkyl derivatives.	EC <sub>50</sub>	Invertebrate	Not available
Alkyl dellvauves.	LC <sub>50</sub>	Algae	Not available
	LC <sub>50</sub>	Fish	Not available
Phosphoric acid	EC <sub>50</sub>	Invertebrate	Not available
	LC <sub>50</sub>	Algae	Not available

Persistence and degradability: Bioaccumulative potential: Mobility in soil: Mobility in general: Other adverse effects: Not available. Not available. Not available. Not available. This material is expected to be toxic to aquatic life.

#### **13.** Disposal considerations

# Information on safe handling for disposal and methods of disposal, including any contaminated packaging:

**Product** - PESTICIDE DISPOSAL METHODS: Pesticide wastes are toxic. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**Contaminated packaging** - Triple or pressure rinse the empty container. Add the rinsings to the treatment site. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements.

# **14. Transport Information**

UN number:	UN 2924
United Nations proper shipping name as provided for in the United Nations Model Regulations:	Flammable liquid, corrosive, n.o.s. (Ethyl alcohol, Dodecylbenzenesulfonic acid)
Transport hazard class as	3, 8

> provided in the United Nations Model Regulations:

Packing group as provided in II the United Nations Model **Regulations:** 

#### ERG# ERG #132 FLAMMABLE LIQUIDS - CORROSIVE.

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

Environmental hazards according to the International Maritime Dangerous Goods Code and the United Nations Model Regulations: Marine pollutant: No.

Transport in bulk (according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78) and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)):

No further relevant information available.

Special precautions in connection with transport or conveyance either within or outside the premises. None.

# **15. Regulatory Information**

## Safety, health and environmental regulations, made within or outside Canada, specific to the product in question.

#### **CANADA:**

Canada Domestic Substances List (DSL): All of the components are either listed on or exempted from the Domestic Substances List.

#### **Canada National Pollutant Release Inventory (NPRI):**

Component	NPRI Part # (Threshold Category)	Mass Threshold**	Concentration Threshold**
Copper 8-Quinolinolate	n/a	n/a	n/a
Ethanol	5	1 tonne of 10-tonne total VOC air release	n/a
Methanol	5	1 tonne of 10-tonne total VOC air	n/a

		release	
Isopropanol	1A	10 tonnes MPO	1%
C10-16-alkylbenzene sulfonic acid	n/a		
Benzene, C10-16-Alkyl derivatives.	n/a	n/a	n/a
Phosphoric acid	n/a		

# Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS

Component	Classification code
Copper 8-Quinolinolate	D1B
Ethanol	B2, D2B
Methanol	B2, D1B
Isopropanol	B2, D2B
C10-16-alkylbenzene sulfonic acid	Е
Benzene, C10-16-Alkyl derivatives.	Е
Phosphoric acid	Е
PRODUCT	B3, D1A, E

# 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.

Flammable. Harmful if swallowed. May be fatal if inhaled. Corrosive. Causes skin burns. Corrosive. Causes irreversible eye damage. This pesticide is extremely 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
Copper 8- Quinolinolate	10380-28-6	5.4	Fire Hazard.
Ethanol	64-17-5	9.6 - 10.2	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
Methanol	67-56-1	0.6 - 2.2	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
Isopropanol	67-63-0	0-1.8	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
C10-16- alkylbenzene sulfonic acid	68584-22-5	34%	Not listed.
Benzene, C10-16- Alkyl derivatives.	68648-87-3	0.35	Not listed.
Phosphoric acid	7664-38-2	1.57 – 3.62	Acute Health Hazard, Chronic Health Hazard.

Section 313 – List of Toxic Chemicals (40CFC 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.

#### **16.** Other information

Date of the latest revision of the safety data sheet: June 06, 2016

#### DISCLAIMER:

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

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