

SAFETY DATA SHEET

ISK BIOCIDES, INC.

SECTION 1: Identification

Product identifier: Premier®.
Other means of identification: None.
SDS number: ISK015
Recommended use: Sapstain & Mold Control for fresh cut lumber and wood products.
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:

Serious eye irritation Category 2A.
Skin sensitization Category 1.

Environmental hazards:

Aquatic acute Category 1.
Aquatic chronic Category 1.

Signal word:

WARNING

Hazard statement(s):

Causes serious eye irritation.
May cause an allergic skin reaction.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Hazard symbol(s):



Precautionary statement(s):

Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear eye protection/face protection.
Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see instructions on this label).
If skin irritation or a rash occurs: Get medical advice/attention.
If eye irritation persists get medical advice/attention.
Wash contaminated clothing before reuse.
Collect spillage.

Storage:

None.

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:

32% of the mixture consists of ingredients of unknown acute toxicity (oral).
32% of the mixture consists of ingredients of unknown acute toxicity (dermal).
35% of the mixture consists of ingredients of unknown acute toxicity (inhalation).

SECTION 3: Composition/information on ingredients

Mixture:

Chemical name	Concentration (weight %)	CAS#
D-Limonene Technical Grade	5%	94266-47-4
3-Iodo-2-propynyl butyl carbamate	4.5 – 7.5%	55406-53-6
Solvent naphtha, petroleum, light aromatic	1.5 – 4.5%	64742-95-6
1,2,4-Trimethylbenzene	< 1.2%	95-63-6
Dimethyl sulfoxide	1.5 – 3%	67-68-5
Proprietary Component	0 – 10%	Proprietary
Propiconazole	3%	60207-90-1

The specific chemical identity and/or exact percentage (concentrate) of composition has been withheld under trade secret rights.

SECTION 4: First-aid Measures

Inhalation: If symptoms of overexposure are experienced, move person to fresh air. If symptoms persist, call a poison control center or seek medical attention.

Skin contact: Skin contact may cause irritation or sensitization (allergic reaction). Take off contaminated clothing and rinse skin for at least 15 – 20 minutes. If irritation persists, call a poison control center or seek medical attention.

Eye contact: May cause irritation. Irrigate eye with water for at least 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation persists, call a poison control center or seek medical attention.

Ingestion: Immediately call a poison control center or seek medical advice. 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: May cause redness, swelling and tearing of the eyes. Swallowing large amounts may be harmful and may result in nausea, vomiting, diarrhea, and include central nervous system effects such as dizziness, drowsiness, weakness, fatigue, headache, and possible unconsciousness. May cause sensitization in humans.

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: Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire exposed containers. Water or foam may cause some foam and frothing.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: Thermal decomposition may produce toxic fumes

Hazardous combustion products may include: Carbon monoxide, Carbon dioxide, Nitrogen, Sulfur, and possibly Iodine, Formaldehyde and Methyl mercaptan.

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:

Wear respiratory protection. 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 personal protective equipment (see Section 8). Remove ignition sources and recover free liquid. Absorb remainder with sand or clay and place in a waste receptacle. Surfaces may be slippery.

LARGE SPILL: Wear appropriate personal protective equipment (see Section 8). Restrict access to contaminated area. Remove ignition sources, stop spill at source. Dike to prevent spreading, and pump liquid to a recovery vessel. 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: Do not store in metal containers. Storing the concentrate in metal containers at elevated temperatures (>122°F) will cause significant corrosion to mild steel within four months. Store in a secure, well-ventilated area protected from extreme temperatures. Do not transfer to an unmarked container. Keep container closed when not in use. (See Section 10 for incompatibles).

SECTION 8: Exposure controls/personal protection

Control Parameters:
Occupational exposure limits:

US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits		
Substance	PEL-TWA (8 hour)	PEL-STEL (15 min)
D-Limonene	Not available	Not available
3-Iodo-2-propynyl butyl carbamate	Not available	Not available
Solvent naphtha, petroleum, light aromatic	Not available	Not available
1,2,4-Trimethylbenzene	Not available	Not available
Dimethyl sulfoxide	Not available	Not available
Proprietary Component	Not available	Not available
Propiconazole	Not available	Not available

ACGIH Threshold Limit Values		
Substance	TLV-TWA (8 hour)	TLV-STEL (15 min)
D-Limonene	Not available	Not available
3-Iodo-2-propynyl butyl carbamate	Not available	Not available
Solvent naphtha, petroleum, light aromatic	Not available	Not available
1,2,4-Trimethylbenzene	Not available	Not available
Dimethyl sulfoxide	Not available	Not available
Proprietary Component	Not available	Not available
Propiconazole	Not available	Not available

Other Exposure Limits: D-Limonene: 8hr TWA 30 ppm (AIHA Standard).

1,2,4-trimethylbenzene NIOSH TWA 25 ppm (125 mg/m³).
(US NIOSH Recommended Exposure Limits (RELs)).

Dimethyl Sulfoxide WEEL TWA 250 ppm.
(USA Workplace Environmental Exposure Levels (WEEL))

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: If there is a potential for contact with the eyes, chemical worker's goggles or face shield should be used.

Skin and Hand protection: Wear impervious gloves, such as Nitrile, and Neoprene to prevent repeated or prolonged skin contact. Special precautions should be taken to ensure that material cannot get inside gloves.

Respiratory protection: Not normally needed in well-ventilated areas. If TLV for product or any component is exceeded, use a MSHA/NIOSH-approved respirator.

Other: Impervious boots (such as Nitrile, Neoprene), aprons, hats, or chemical suits should be worn when necessary to prevent prolonged skin contact. Good personal hygiene practices should be used. Wash after any contact, before eating and at the end of the work period. Safety showers and eyewash stations should be provided in all areas in which this product is stored and/or handled.

Thermal hazards: None known.

SECTION 9: Physical and chemical properties

Appearance:

Physical state: Liquid.
Form: Clear translucent amber.
Color: Translucent amber.

Odor: Mild citrus.
Odor threshold: Not available.
pH: 6.0 – 7.0
Melting point/freezing point: Not known.
Initial Boiling point/Boiling Range: Not known.
Flash point: > 200°F PMCC.
Evaporation rate: < 1 (nBuAC=1)
Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits

Flammability limit – lower:	Not determined.
Flammability limit – upper:	Not determined.
Explosive limit – lower:	Not determined.
Explosive limit – upper:	Not determined.
Vapor pressure:	Unknown.
Vapor density:	> 1 (air = 1).
Relative density (Specific gravity):	1.01
Solubilities (water, other):	Soluble.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not known.
Decomposition temperature:	Not available.
Viscosity:	275 - 350 cPs Brookfield #2 @ 20 rpm at 70°F.
Other information:	
Bulk density:	8.4 lbs per gal (weight per gallon cup).
VOC:	201 g/L – 1.67 lbs/gal – 19.1 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: None known.

Hazardous decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen, Sulfur, and possibly Iodine, Formaldehyde and Methyl mercaptan.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: May cause irritation to nose, throat, respiratory tract, and may cause central nervous system effects, such as dizziness, drowsiness, weakness, fatigue, headache, and possible unconsciousness.

Ingestion: Swallowing large amounts may be harmful and may result in nausea, vomiting, diarrhea, and include central nervous system effects as described under inhalation hazards.

Skin: Slight to mild irritation. May cause erythema (redness), edema (swelling), and cracking of skin on prolonged or repeated contact. May cause sensitization in humans.

Eye: No corneal or iridal effects. May cause redness, swelling and tearing of the eyes.

Symptoms related to the physical, chemical, and toxicological characteristics: Persons with pre-existing respiratory, eye, or skin disorders, liver or kidney impairments, may be more susceptible.

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

Acute toxicity:

Ingredient Information:

Substance	Test Type (species)	Value
D-Limonene	LD ₅₀ Oral (Rabbit)	> 5000 mg/kg
	LD ₅₀ Dermal (Rabbit)	> 5000 mg/kg
	RD ₅₀ Inhalation (Mouse)	> 1000 mg/kg
3-Iodo-2-propynyl butyl carbamate	LD ₅₀ Oral (Rat)	Not available
	LD ₅₀ Dermal (Rabbit)	Not available
	LC ₅₀ Inhalation, (Rat)	Not available
Solvent naphtha, petroleum, light aromatic	LD ₅₀ Oral (Rat)	>14000 mg/kg
	LD ₅₀ Dermal (Rabbit)	>2000 mg/kg
	LC ₅₀ Inhalation, (Rat)	6000 - 10000 mg/m ³ (4h)
1,2,4-Trimethylbenzene	LD ₅₀ Oral (Rat)	5,000 mg/kg
	LD ₅₀ Dermal (Rabbit)	18,000 mg/m ³ (4h)
	LC ₅₀ Inhalation, (Rat)	Not available
Dimethyl sulfoxide	LD ₅₀ Oral (Rat)	14500 mg/kg
	LD ₅₀ Dermal (Rabbit)	> 5000 mg/kg
	LC ₅₀ Inhalation, (Rat)	40250 ppm (4h)
Proprietary Component	LD ₅₀ Oral (Rat)	Not available
	LD ₅₀ Dermal (Rabbit)	Not available
	LC ₅₀ Inhalation, (Rat)	Not available
Propiconazole	LD ₅₀ Oral (Rat)	1517 mg/kg
	LD ₅₀ Dermal (Rabbit)	> 4000 mg/kg
	LC ₅₀ Inhalation (Rat)	1264 mg/m ³ (4h)

Product Acute Toxicity Estimates:

Oral: Rat - LD₅₀ - > 5000 mg/kg.

Dermal: Rat - LD₅₀ - > 5000 mg/kg.

Inhalation (4h): Rat - LC₅₀ - > 2.4 mg/l.

Skin corrosion/irritation:

Primary Skin Irritation (Rabbits): Slight to mild irritation.

Serious eye damage/eye irritation:	Primary Eye Irritation (rabbit): No corneal or iridal effects.
Respiratory sensitization:	Based upon information available on the known components, the product is not anticipated to cause respiratory sensitization.
Skin sensitization:	Dermal Sensitizer (guinea pig): 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 a carcinogen.
Reproductive toxicity:	Based upon information available on the known components, the product is not anticipated to have reproductive toxicity.
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 to the respiratory system 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, is not expected 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
D-Limonene	LC ₅₀	Fish	No data available
	EC ₅₀	Invertebrate	No data available
	LC ₅₀	Algae	No data available
3-Iodo-2-propynyl butyl carbamate	LC ₅₀ Oncorhynchus mykiss (rainbow trout)	Fish	0.067 mg/l - 96h
	EC ₅₀ Daphnia magna (Water flea)	Invertebrate	0.04 mg/l - 48h
	LC ₅₀	Algae	No data available
Solvent naphtha, petroleum, light aromatic	LC ₅₀ Oncorhynchus mykiss (rainbow trout)	Fish	9.2 mg/l – 96h
	EC ₅₀ Daphnia magna (Water flea)	Invertebrate	100 mg/l – 48h
	LC ₅₀	Algae	No data available
1,2,4-trimethylbenzene	LC ₅₀ Pimephales promelas (fathead minnow)	Fish	7.72 mg/l - 96h
	EC ₅₀ Daphnia magna (Water flea)	Invertebrate	3.6 mg/l - 48h
	LC ₅₀	Algae	No data available
Dimethyl sulfoxide	LC ₅₀ Pimephales promelas (fathead minnow)	Fish	34000 mg/l - 96 h
	EC ₅₀ Daphnia pulex (Water flea)	Invertebrate	27500 mg/l
	LC ₅₀	Algae	No data available
Proprietary Component	LC ₅₀ Pimephales promelas (fathead minnow)	Fish	34000 mg/l - 96 h
	EC ₅₀ Daphnia pulex (Water flea)	Invertebrate	27500 mg/l
	LC ₅₀	Algae	No data available

Propiconazole	LC ₅₀ Oncorhynchus mykiss (rainbow trout)	Fish	0.9 - 1.2 mg/l - 96 h
	EC ₅₀ Daphnia magna (Water flea)	Invertebrate	4.8 mg/l - 48 h
	LC ₅₀ Pseudokirchneriella subcapitata (green algae)	Algae	5 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: Not regulated.
IATA: Not regulated.
IMDG: Not regulated.

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:

CAUTION

Causes moderate eye irritation.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

This pesticide is toxic to fish and shrimp.

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:

Section 302 – None of the chemicals are EPCRA hazards.

CERCLA/Superfund, 40 CFR 117, 302: Not listed.

CHEMICAL	C.A.S. Number	Weight %	Section 311/312
D-Limonene	94266-47-4	5%	Fire Hazard, Acute Health Hazard
3-Iodo-2-propynyl butyl carbamate	55406-53-6	4.5 – 7.5%	Not listed
Solvent naphtha, petroleum, light aromatic	64742-95-6	1.5 – 4.5%	Fire Hazard, Acute Health Hazard
1,2,4-Trimethylbenzene	95-63-6	< 1.2%	Fire Hazard
Dimethyl sulfoxide	67-68-5	1.5 – 3%	Fire Hazard, Chronic Health Hazard
Proprietary Component	Proprietary	0 – 10%	Acute Health Hazard
Propiconazole	60207-90-1	3%	Acute 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. 3-Iodo-2-propynyl butylcarbamate, 1,2,4-Trimethylbenzene, Propiconazole.

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

Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15 (formerly section 307) 40 CFR 116 (formerly section 311): This product does not contain listed chemicals.

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: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

New Jersey Right to Know: The following components are listed on the New Jersey Right to Know list: 3-Iodo-2-propynyl butylcarbamate, 1,2,4-Trimethylbenzene, Dimethyl sulfoxide, Propiconazole.

Pennsylvania Right to Know: The following components are listed on the Pennsylvania Right to Know list: 3-Iodo-2-propynyl butylcarbamate, 1,2,4-Trimethylbenzene, Dimethyl sulfoxide, Propiconazole.

Massachusetts Right to Know: The following components are listed on the Massachusetts Right to Know list: 1,2,4-Trimethylbenzene.

INTERNATIONAL REGULATIONS:

Canadian Regulations Class D2B: Toxic material at $\geq 1\%$

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: September 9, 2014.

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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