

SECTION 1 – PRODUCT AND COMPANY INFORMATION

PRODUCT IDENTIFIER: OrkinThermPro® Pest Control Insulation, Loose Fill

PRODUCT NAME: OrkinThermPro® Pest Control Insulation

MANUFACTURER: Pest Control Insulation, LLC
 5285 Mountain Center Plaza, Lula, GA 30554, USA
Emergency Telephone Number: 770.766.6050 (9am - 5pm ET Mon-Fri)

SECTION 2 – HAZARD IDENTIFICATION

HAZARD OVERVIEW: OrkinThermPro® Pest Control Insulation is a gray (or beige), odorless cellulosic fiber insulation material treated with boric acid imparting flame retardant properties. The product is not combustible, flammable, or explosive, and it presents no unusual hazard if involved in a fire. OrkinThermPro® Pest Control Insulation has relatively low acute toxicology via oral, dermal and inhalation routes of exposure (see “Toxicological Information” section for more information). Care should be taken to minimize the amount of this product released to the environment to avoid ecological effects.

OSHA HAZARD CLASSIFICATION: Reproductive Toxicity Category 2

SYMBOL:



SIGNAL WORD: WARNING

HAZARD STATEMENT: H361: Suspected of damaging fertility or the unborn child.

PRECAUTIONARY STATEMENTS:

- 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.
- P501: Dispose of contents/container in accordance with local regulations.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION: None.

SECTION 3 – COMPOSITION & INGREDIENT INFORMATION

COMPONENT	CAS #	% BY WEIGHT	SARA 313 Reportable
Cellulose Fiber	65996-61-4	Not less than 85%	No
Boric Acid H ₃ BO ₃	10043-35-3	Not more than 15%	No
Distillate Mineral Oil	8042-47-5	Not more than 2%	No

Refer to Sections 4 and 11 for details on hazards.

SECTION 4 – FIRST AID MEASURES

EMERGENCY OVERVIEW

OrkinThermPro® Pest Control Insulation is a finely divided, gray/light beige material with no perceptible odor. It presents no unusual hazard if involved in a fire.

Treatment:

Eyes: For dust exposure, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Skin: If skin is exposed, wash with soap and water. If irritation persists, seek medical attention.

Inhalation: If irritation or difficulty in breathing occurs, remove to fresh air. Seek medical attention if condition persists.

Ingestion: Symptoms may include diarrhea, nausea, and vomiting. Seek medical attention if material was ingested and symptoms occur.

Most important symptoms and effects both acute and delayed:

Acute: Minor respiratory and eye irritant. Not a skin irritant unless skin is broken.

Chronic: None known.

Indication of any immediate medical attention and special treatment needed:

Physicians: Exposure to dust may aggravate symptoms of persons with pre-existing respiratory tract conditions and may cause skin and gastrointestinal symptoms.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media	Water, dry chemical and other agents rated for a wood fire (Type A fire). Use Type A rated extinguisher.
Unsuitable Extinguishing Media	None known.
Combustible	Not applicable.
Flammable Limits	LEL: Not applicable UEL: Not applicable
Autoignition Temperature	Not determined.
Explosion Hazard	None expected for product based on particle size. Note: Airborne concentrations of combustible dust, when combined with an ignition source, can create an explosion hazard if the dust concentration exceeds 15 mg/m ³ .
Fire Fighting Instructions	Evacuate the area and notify the fire department. Fire-fighters should wear normal protective equipment (full bunker gear) and positive-pressure, self-contained breathing apparatus. If possible, isolate the fire by moving other combustible materials. If the fire is small, use a hose-line or extinguisher rated for a Type A fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

General: Contains water-soluble, inorganic minerals which may damage trees or vegetation exposed to large quantities.

Land: Vacuum, shovel or sweep up and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal.

Water: Will cause localized contamination of surrounding waters depending on the quantity dissolved in these waters. At high concentrations some damage to local vegetation, fish and other aquatic life may be expected.

SECTION 7 – HANDLING AND STORAGE

General	No special handling is required. Storage of sealed bags in a dry, indoor location is recommended. To maintain product integrity, handle on a “first-in-first-out” basis. Use good housekeeping and engineering controls so that dust levels are minimized. Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.
Storage Temperature	Ambient
Storage Pressure	Atmospheric
Special Sensitivity	None

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection	NIOSH-approved N95 dust mask
Eye Protection	ANSI-approved dust goggles
Hand Protection	Chemical resistant gloves
Other Protective Clothing	Long pants, long sleeved shirt, socks/shoes
Ventilation	Normal and adequate ventilation
Work/Hygienic Practices	Standard hygienic practices
Occupational Exposure Limits	Particulate Not Otherwise Specified. OSHA: PEL** 15 mg/m ³ total dust and 5 mg/m ³ respirable dust ACGIH: TLV** 10 mg/m ³ total dust

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Characteristics	
Appearance	Gray/ light beige fiber
Odor/Odor Threshold	None/ None
Boiling Point (F)	Not applicable
Vapor Pressure (mm Hg)	Not applicable
Vapor Density	Not applicable
Solubility in Water	Insoluble; dispersible
Specific Gravity (H₂O=1)	Not applicable
Reactivity in Water	None
Melting/Freezing Points	Not applicable
pH	<8.2 (2.0% suspension @ 25° C)

SECTION 10 – STABILITY AND REACTIVITY

Stability	OrkinThermPro® Pest Control Insulation is a stable product.
Reactivity:	None known
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Not applicable
Other:	Reaction with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas which could create an explosive hazard. Keep away from strong oxidizers, such as concentrated nitric acid, hydrogen peroxide and chlorine.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicological information: No toxicological data is available for the product. Toxicological information for components of this product is listed below.

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):

RECYCLED PAPER/NEWSPRINT (Cellulose Fiber):

Eye Irritation: None Reported
Skin Irritation: None Reported
Acute Oral Toxicity: None Reported
Acute Inhalation Toxicity: LC50, rat, =5,800 mg/m³/4 hours
Sub chronic: None Reported
Chronic: None Reported
Teratology: None Reported
Reproduction: None Reported
Germ Cell Mutagenicity: None Reported
Carcinogenicity: None Reported

BORIC ACID:

Eye Irritation: Not irritating, corneal involvement or irritation clearing in 7 days. Classification: Based on mean scores < 1, and the effects were fully reversible within 7 days, the classification criteria are not met. Many years of occupational exposure indicate no adverse effects on human eye.
Skin Irritation: No skin irritation. Mean Primary Irritation Score: 0.1. Based on the available data, the classification criteria are not met.
Acute Oral Toxicity: Low acute oral toxicity. The oral LD50 value in male rats is 3,450 mg/kg bw, and in female rats is 4080 mg/kg bw.
Acute Inhalation Toxicity: Low acute inhalation toxicity; LC50 in rats is > 2.0 mg/l (or g/m³). Based on the available data, the classification criteria are not met.
Acute Dermal Toxicity: Low acute dermal toxicity; LD50 in rabbits is > 2,000 mg/kg of body weight. Poorly absorbed through intact skin. Based on the available data, the classification criteria are not met.
Reproduction: NOAEL in rats for developmental effects on the fetus including fetal weight loss and minor skeletal variations is 55 mg boric acid/kg bw or 9.6 mg B/kg. Classification: Reproductive Toxicity Category 2 (Hazard statement: H361: Suspected of damaging fertility or the unborn child.)
Germ Cell Mutagenicity: Not mutagenic. Based on the available data, the classification criteria are not met.
Carcinogenicity: No evidence of carcinogenicity. Based on the available data, the classification criteria are not met.

DISTILLATE MINERAL OIL:

Eye Irritation: None reported
Skin Irritation: LD50, Dermal, rabbit, >2000mg/kg, conclusion/summary – not available
Acute Oral Toxicity: LD50, Oral, rat >5000mg/kg, conclusion/summary – not available
Acute Inhalation Toxicity: LC50 Inhalation dusts/mists, rat, >5280mg/m³, conclusion/summary – not available
Sub chronic: None available
Chronic: None available
Teratology: None available
Reproduction: None available
Germ Cell Mutagenicity: None available
Carcinogenicity: None available

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

Products are not intended for ingestion. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects. Symptoms of accidental over-exposure to high doses of inorganic borate salts have been

associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhea with delayed effects of skin redness and peeling.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid and sodium borate dust. Human epidemiological studies indicate no effect on fertility in occupational populations with chronic exposures to borate dust and indicate no effect to a general population with high exposures to borates in the environment.

Numerical measures of toxicity (such as acute toxicity):

None. This product is a mixture.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:

NEWSPRINT (Cellulose Fiber)

Ecotoxicity: Biodegrades slowly in water (half-life range 1 month – 1 yr in freshwater and coastal seawater).

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Mobility in soil: Not available

Other adverse effects (such as hazardous to the ozone layer): None Known

BORIC ACID

Ecotoxicity: Based on the acute data for freshwater species, boric acid is not classified as hazardous to the environment.

Persistence and degradability: Biodegradation is not an applicable endpoint since boric acid is an inorganic substance.

Bioaccumulative potential: This product will undergo hydrolysis in water to form undissociated boric acid. Boric acid will not biomagnify through the food chain. Octanol/Water partition coefficient: Log Pow = -0.7570 @ 25°C

Mobility in soil: Boric acid is soluble in water and is leachable through normal soil. Absorption to soils or sediments is insignificant.

Other adverse effects (such as hazardous to the ozone layer): None known

DISTILLATE MINERAL OIL

Ecotoxicity: NOEC 0.098 mg/l, fish, 14 days.

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Mobility in soil: Not available

Other adverse effects (such as hazardous to the ozone layer): None known

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Small quantities of OrkinThermPro® Pest Control Insulation can usually be disposed of at municipal landfill sites, but refer to applicable regulations for site-specific requirements. Very large quantities of product are not recommended to be sent to landfills and should be re-used for an appropriate application. Product packaging should be recycled. Avoid spillage into water and cover drains.

RCRA HAZARD CLASSIFICATION: The product is not listed under any section of the Federal Resource Conservation and Recovery Act (RCRA).

SECTION 14 – TRANSPORT INFORMATION

The product is not a U.S. Department of Transportation (DOT) Hazardous Material or Hazardous Substance.

SECTION 15 – REGULATORY INFORMATION

FIFRA: OrkinThermPro® Pest Control Insulation is registered with the EPA, in accordance with Section 3 of FIFRA, as a pesticide product. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information including directions for use. EPA Pesticide Registration Number: 77787-1-70106

Caution

Harmful if swallowed.

Avoid breathing dust and, during installation, wear a NIOSH N95 protective respirator.

To avoid eye and skin irritation, wear protective goggles and chemical resistant gloves, long sleeved shirt, long pants, shoes & socks

Superfund: CERCLA/SARA. This product is not listed under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) or its 1986 amendments, the Superfund Amendments and Reauthorization Act (SARA), including substances listed under Section 313 of SARA, Toxic Chemicals, 42 USC 11023, 40 CFR 372.65; Section 302 of SARA Extremely Hazardous Substances, 42 USC 11002, 40 CFR 355, or the CERCLA Hazardous Substances list, 42 USC 9604, 40 CFR 302.

RCRA: This product is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act or regulations (40 CFR 261 et seq.).

Safe Drinking Water Act: This product is not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 et seq. Consult state and local regulations for possible water quality advisories regarding boron and ammonia.

California Proposition 65: This product is not listed on any Proposition 65 lists of carcinogens or reproductive toxicants.

OSHA Carcinogen: Not listed.

Clean Water Act (Federal Water Pollution Control Act): 33 USC 1251 et seq.: This product is not itself a discharge covered by any water quality criteria of Section 304 of the CWA, 33 USC 1314. This product is not on the Section 307 List of Priority Pollutants, 33 USC 1317, 40 CFR 116. This product is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.

TSCA No.: This product does not appear on the EPA TSCA inventory list. Boric acid appears on the EPA TSCA inventory list under the CAS No. 10043-35-3.

OSHA/Cal/OSHA: This SDS document meets the requirements of both OSHA and Cal/OSHA hazard communication standards. Refer to Section 8 for regulatory exposure limits.

IARC: The International Agency for Research on Cancer (of the World Health Organization) does not list or categorize this product as a carcinogen.

NTP Annual Report on Carcinogens: Not listed.

SECTION 16 – OTHER INFORMATION

INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED DEPENDABLE AND IS ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE AND BELIEF, BUT IT IS NOT GUARANTEED TO BE SO. NOTHING HEREIN IS TO BE CONSTRUED AS RECOMMENDING ANY PRACTICE OR ANY PRODUCT IN VIOLATION OF ANY PATENT OR IN VIOLATION OF ANY LAW OR REGULATION. THE USER IS RESPONSIBLE TO DETERMINE THE SUITABILITY OF ANY MATERIAL FOR A SPECIFIC PURPOSE AND ADOPT NECESSARY SAFETY PRECAUTIONS. WE MAKE NO WARRANTY AS TO RESULTS TO BE OBTAINED IN USING ANY MATERIAL AND, SINCE CONDITIONS OR USE ARE NOT UNDER OUR CONTROL, WE MUST NECESSARILY DISCLAIM ALL LIABILITY WITH RESPECT TO USE OF ANY MATERIAL SUPPLIED BY US.

HMIS Rating		National Fire Protection Association (NFPA)	
Health	1	Red (Flammability)	1
Flammability	1	Yellow (Reactivity)	0
Reactivity	0	Blue (Acute Health)	1*
Personal Protection	E	*Chronic Effects	

ABBREVIATIONS

CAS	Chemical Abstract Services (identifies specific chemical)	OSHA	Occupational Safety and Health Administration
mg/m ³	Milligrams per cubic meter	PNOR	Particulates Not Otherwise Regulated
LCLo	Lethal concentration low	PNOS	Particulates Not Otherwise Specified
LDLo	Lethal dose low	PEL	OSHA Permissible Exposure Limit
LC50	Lethal concentration 50%	ppm	Parts per million
LD50	Lethal dose 50%	RfD	Reference Dose
LOAEL	Lowest Observed Adverse Effect Level	RTECS	Registry of Toxic Effects of Chemical Substances
mg/l/H	Milligrams per liter per hour	TDL_o	Toxic dose low
mg/kg	Milligrams per kilogram	TLV	ACGIH Threshold Limit Value
mg/m ³	Milligrams per cubic meter	TWA	8 hour Time Weighted Average exposure