

ISK Biocides, Inc.

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Trade name:	Sta Brite R Light Gray 362
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SECTION 1: Identification

Product identifier:	Sta Brite R Light Gray 362
Other means of identification:	Sta Brite R Light Gray
SDS number:	ISK100
Recommended use:	Roof Protector for cedar shakes and shingles.
Restrictions on use:	None known.
Canadian supplier identifier:	
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:	Gail Watson
E-mail:	SDSInquiry@iskbiocides.com
Emergency phone number:	Chemtrec (800) 424-9300 (24hours)

SECTION 2: Hazard identification

WHMIS Classification:
CLASS D2A - Very Toxic Material Causing Other Toxic Effects. Chronic toxicity Carcinogen
CLASS D2B - Very Toxic Material Causing Other Toxic Effects

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

Physical hazards

No physical hazards for this product.

Health hazards

Serious eye damage/irritation Category 2A
Carcinogenicity Category 2.

Environmental hazards

No environmental hazards for this product.

Hazard symbol(s):



Signal word:

WARNING.

Hazard statement(s):

Causes serious eye irritation.
Suspected of causing cancer.

Precautionary statement(s):

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash hands thoroughly after handling.
Wear eye protection/face protection.

Response:

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.
IF exposed or concerned: Get medical advice/attention.

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:

15.6% of the mixture consists of ingredients of unknown acute toxicity (oral/dermal).
15.3% of the mixture consists of ingredients of unknown acute toxicity (inhalation).

SECTION 3: Composition/information on ingredients

Mixture:

Chemical name	Concentration (weight %)	CAS#
Titanium Dioxide	13.7.0 – 14.6	13463-67-7
Carbon Black	0.9 –0.12	1333-86-4

SECTION 4: First-aid Measures

First-aid measures by route of exposure:

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 and effects (acute or delayed): Contains components that are suspected of causing cancer when present as a respirable dust. Can cause severe eye irritation, redness, tearing, blurred vision.

Immediate medical attention and special treatment, if necessary: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Non-Combustible. Use suitable extinguishing media for surrounding fire.

Unsuitable extinguishing media: None known.

Specific hazards arising from the hazardous product: Thermal decomposition may produce toxic fumes.

Hazardous combustion products may include: Oxides of Carbon and Nitrogen, plus small amounts of Ammonia.

Special protective equipment and precautions for fire-fighters:

Wear MSHA/NIOSH-approved, self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

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.

LARGE SPILL: Wear appropriate protective clothing (see Section 8). Large spills are not likely to occur. Restrict access to contaminated area. Stop spill at source. Dike to prevent spreading. 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.

Conditions for safe storage (including incompatible materials): Store away from food or feed in a secure, well-ventilated area protected from extreme temperatures. Do not transfer to an unmarked container. Keep container closed when not in use. Do not allow to freeze.

SECTION 8: Exposure controls/personal protection

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

Canada - Alberta Occupational Exposure Limits		
Substance	PEL-TWA (8 hour)	PEL-STEL (15 min)
Titanium Dioxide	10 mg/m ³	No data available
Carbon Black	3.5 mg/m ³	No data available

Canada - British Columbia Occupational Exposure Limits		
Substance	TLV-TWA	TLV-STEL
Titanium Dioxide	10 mg/m ³	No data available
Carbon Black	3.5 mg/m ³	No data available

CANADA – Northwest Territories Occupational Exposure Limits		
Substance	TLV-TWA	TLV-STEL
Titanium Dioxide	10 mg/m ³	No data available
Carbon Black	3.5 mg/m ³	No data available

CANADA – Nova Scotia Occupational Exposure Limits		
Substance	TLV-TWA	TLV-STEL
Titanium Dioxide	10 mg/m ³	No data available
Carbon Black	3.5 mg/m ³	No data available

Canada - Ontario Occupational Exposure Limits		
Substance	TWA	STEL
Titanium Dioxide	10 mg/m ³	No data available
Carbon Black	3.5 mg/m ³	No data available

Canada - Prince Edward Island Occupational Exposure Limits		
Substance	TWA	STEL
Titanium Dioxide	10 mg/m ³	No data available

Carbon Black	3.5 mg/m ³	No data available
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Canada - Quebec Permissible Exposure Values for Airborne Contaminants		
Substance	TWAEV	STEL
Titanium Dioxide	10 mg/m ³	No data available
Carbon Black	3.5 mg/m ³	No data available

Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits		
Substance	8-hour average Contamination Limit	15-minute average Contamination Limit
Titanium Dioxide	10 mg/m ³	No data available
Carbon Black	3.5 mg/m ³	No data available

Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances		
Substance	8-hour Limit	15-minute Limit
Titanium Dioxide	10 mg/m ³	No data available
Carbon Black	3.5 mg/m ³	No data available

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 (e.g. 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 rubber gloves when handling, using, or applying this product. Special precautions should be taken to ensure that material cannot get inside gloves.

Respiratory protection: None normally required if good ventilation is maintained. If TLV for product or any component is exceeded, use a MSHA/NIOSH-approved respirator.

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. Contaminated clothing should be removed and washed thoroughly before re-using.

Thermal hazards: None known.

SECTION 9: Physical and chemical properties

Appearance:

Physical state: Dispersion.
Form: Slightly viscous grayish dispersion.
Colour: Light Gray.

Odour: Faint amine.

Odour threshold: Not available.

pH: 9.4 – 10.4

Melting point/freezing point: Not known

Initial Boiling point/boiling range: 212°F

Flash point: > 200 °F.

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

Vapour pressure: Not known.

Vapour density: > 1 (Air = 1).

Relative density: 1.33

Solubility: Disperses.

Partition coefficient - n-octanol/water: Not available.

Auto-ignition temperature: Not known.

Decomposition temperature: Not available.

Viscosity: 2700 - 3950 cPs Brookfield #3 @ 20 rpm at 70°F

Other information

Bulk density: 11.1 lbs per gal (weight per gallon cup).

VOC (Weight %): 40 grams/liter.

SECTION 10: Stability and Reactivity

Reactivity: Stable.

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

Possibility of hazardous reactions: Material is not known to polymerize.

Conditions to avoid (e.g., static discharge, shock, or vibration): Temperatures below freezing, 32F/0C.

Incompatible materials: Acid, Strong oxidants.

Hazardous decomposition Products: Oxides of Carbon and Nitrogen, plus small amounts of Ammonia.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: Expected to be a likely route of exposure.

Ingestion: Expected to be a likely route of exposure.

Skin: Expected to be a likely route of exposure.

Eye: Expected to be a likely route of exposure.

Symptoms related to the physical, chemical, and toxicological characteristics: Can cause nasal and respiratory irritation, dizziness, nausea, vomiting, headache, and weakness. Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Can cause severe irritation, redness, tearing, blurred vision.

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

May cause skin irritation or rash on prolonged or repeated contact. Can cause irreversible eye damage on prolonged contact. Some of the components are suspected of causing cancer when present as a respirable dust.

Acute toxicity, Product Acute Toxicity Estimates:

Oral: Rat - LD₅₀ - > 5000 mg/kg.

Dermal: Rabbit - LD₅₀ - > 2000 mg/kg but < 20000 mg/kg.

Inhalation: Rat - LC₅₀ - > 20.0 mg/L.

Skin corrosion/irritation:	Based upon information available on the known components, the product may cause skin irritation or rash on prolonged or repeated contact.
Serious eye damage/eye irritation:	Based upon information available on the known components, the product can cause severe irritation, redness, tearing and blurred vision.
Respiratory sensitization:	Based upon information available on the known components, the product is not anticipated to cause respiratory sensitization.
Skin sensitization:	Based upon information available on the known components, the product is not anticipated to cause skin sensitization.
Germ cell mutagenicity:	Based upon information available on the known components, the product is not anticipated to be a mutagen.

Carcinogenicity: Titanium Dioxide and Carbon black are all suspected to be a human carcinogen when present as airborne, unbound particles of respirable size.

Reproductive toxicity: Based upon information available on the known components, the product is not anticipated to cause 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 after 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.

**Numerical measures of toxicity
 Ingredient Information:**

Substance	Test Type (species)	Value
Titanium Dioxide	LD ₅₀ Oral	> 10000 mg/kg
	LD ₅₀ Dermal	> 10000 mg/kg
	LC ₅₀ Inhalation	No data available
Carbon Black	LD ₅₀ Oral (Rat)	> 8000 mg/kg
	LD ₅₀ Dermal (Rabbit)	> 3000 mg/kg
	LC ₅₀ Inhalation, (Rat)	No data available

SECTION 12: Ecological information

Ecotoxicity

Product data: Not available.

Ingredient Information:

Substance	Test Type	Species	Value

Titanium dioxide	LC ₅₀ other fish	Fish	> 1000 mg/l – 96h
	EC ₅₀ Daphnia magna (Water flea)	Invertebrate	> 1000 mg/l – 48h
	LC ₅₀	Algae	No data available
Carbon black	LC ₅₀ Danio rerio (zebra fish)	Fish	> 1000 mg/l - 96 h
	EC ₅₀ Daphnia magna (Water flea)	Invertebrate	> 5600 mg/l – 24h
	LC ₅₀ Desmodesmus subspicatus (green algae)	Algae	> 10000 mg/l – 72h

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

SECTION 13: Disposal considerations

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

Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility in accordance with all Federal, State, and local regulations.

SECTION 14: Transport Information

Land transport DOT

UN number Not regulated under DOT.
 UN proper shipping name -
 Transport hazard class(es) -
 Packing group, if necessary -
 Other information -

Maritime transport IMDG

UN number Not regulated under IMDG.
 UN proper shipping name -
 Transport hazard class(es) -
 Packing group, if necessary -
 IMDG Code -

Air transport ICAO-TI and IATA-DGR

UN number Not regulated under DOT.
 UN proper shipping name -
 Transport hazard class(es) -
 Packing group, if necessary -

Environmental hazards

Marine pollutant: No.

Transport in bulk, if applicable

No further relevant information available.

Special precautions.

Not available.

Bill of lading classification: Paint and related material - NMFC 149980, sub 6.

SECTION 15: Regulatory Information

Canadian Regulations

CLASS D2A - Very Toxic Material Causing Other Toxic Effects.

CLASS D2B - Very Toxic Material Causing Other 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*.

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.

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

Section 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

CHEMICAL	C.A.S. Number	Weight %	Section 311/312
Titanium Dioxide (nanoparticles range in size from 1 to 150 nm).	13463-67-7	13.7 – 14.6	Chronic Health Hazard
Carbon Black	1333-86-4	0.09 – 0.12	Chronic Health Hazard

Section 313 – List of Toxic Chemicals (40CFR 372): This product does not contain the chemicals (at level of 1% or greater) found on the 313 list of Toxic Chemicals.

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: WARNING! This product contains a chemical known to the State of California to cause cancer: Titanium dioxide, nanoparticles range in size from 1 to 150 nm, Carbon black (airborne, unbound particles of respirable size) is effective February 21. 2003.

New Jersey Right to Know: The following components are listed on the New Jersey Right to Know list: Titanium dioxide, nanoparticles range in size from 1 to 150 nm, Carbon black.

Pennsylvania Right to Know: The following components are listed on the Pennsylvania Right to Know list: Titanium dioxide, nanoparticles range in size from 1 to 150 nm, Carbon black.

Massachusetts Right to Know: The following components are listed on the Massachusetts Right to Know list: Titanium dioxide, nanoparticles range in size from 1 to 150 nm, Carbon black.

SECTION 16: Other Information

Revision Date: July 19, 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.