

MATERIAL SAFETY DATA SHEET

SONAKRETE

Last Updated December 8, 2015



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **SONAKRETE**

CAS Number: Mixture

Product Use: Cellulose Fiber Insulation Treated with Fire Retardants

Manufacturers Name:

International Cellulose Corporation

12315 Robin Boulevard

Houston, TX 77045

+1-713-433-6701

1-800-444-1252 (U.S./Canada Only) Business Phone

1-713-433-6701 7 AM-6 PM (CST) Emergency Phone

www.spray-on.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazard Classification: Eye Irritation Category 2A



Signal Word: Warning

Hazard Statements: Causes serious eye irritation

Precautionary Statements:

Wash hands thoroughly after handling.

Wear eye protection/face protection (see section 8).

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.

Other hazards which do not result in classification: None

3. HAZARDS IDENTIFICATION

Chemical Name	Amount (%)	CAS Number
Mineral Oil, Petroleum Distillates, Hydrotreated light Paraffinic	0.1 – 0.9	64742-55-8
Sodium Borate (sodium tetraborate pentaahydrate)	<5.0	12179-04-3
Boric Acid	<15	10043-35-3
Cellulose Fiber	Balance	65996-61-4

Balance of ingredients are non-hazardous or hazardous in less than 1% in concentration (or 0.1% for carcinogens, reproductive toxicants, or respiratory sensitizers).

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4. FIRST AID MEASURES

INHALATION FIRST AID: If breathing difficulty develops, remove victim to fresh air. Provide oxygen if breathing continues to be difficult. If not breathing, give artificial respiration, preferably mouth to mouth. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT FIRST AID: If contact occurs wash skin with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. GET MEDICAL ATTENTION IF IRRITATION OCCURS.

EYE CONTACT FIRST AID: If contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes lifting upper and lower eyelids occasionally. GET MEDICAL ATTENTION IF IRRITATION OCCURS.

INGESTION FIRST AID: Induce vomiting ONLY as directed by medical personnel. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION IMMEDIATELY.

NOTE TO PHYSICIANS: Treat symptoms.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Not applicable

AUTO IGNITION TEMPERATURE: Not Applicable

FLASH POINT: Not Applicable

FLAMMABLE LIMITS IN AIR, % by Volume: lel: N.E.; uel: N.E.

EXTINGUISHING MEDIA: Use fire extinguishing materials appropriate for surrounding fire including water spray (for cooling), dry extinguishing media, carbon dioxide, foam.

FIRE & EXPLOSION HAZARDS: This product has fire retardants in it to prevent or delay combustion.

SPECIAL INFORMATION:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

SPILL CLEAN-UP PROCEDURES: Evacuate unprotected personnel from the area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in section 8. Contain and recover if possible. Wear rubber gloves, safety glasses, and appropriate body protection. Sweep up spilled material. Avoid generating airborne dusts. Always dispose of wastes in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

RECOMMENDED STORAGE CONDITIONS: Protect against physical damage. Store containers in a cool, dry location, away from direct sunlight, away from incompatible chemicals. Observe all warnings and precautions listed for the product.

HANDLING (PERSONNEL): Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapors, mists, or dust. Do not eat, drink or smoke in work area. Wash thoroughly after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS:

OSHA PEL (TWA)

3.5 mg/m³

NE

NE

15 mg/m³ Total Dust 5mg/m³(Respirable)

10 mg/m³

ACGIH TWA

3.5 mg/m³

NE

2 mg/m³ as aerosol

2 mg/m³ Inhalable fraction

10 mg/m³

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VENTILATION SYSTEM: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

PERSONAL RESPIRATORS (NIOSH APPROVED): If the exposure limit is exceeded and engineering controls are not feasible, a respirator may be required. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

SKIN PROTECTION: Wear protective clothing, gloves, as appropriate.

EYE PROTECTION: Use safety glasses and/or goggles, as appropriate.

Maintain eye wash fountain and quick-drench facilities in work area.

GOOD HYGIENE CONDITIONS: Wash with soap and water before meals and at the end of each work shift. Good manufacturing practices require amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Solid

ODOR: No Odor

SOLUBILITY IN WATER: Slightly soluble in water

MELTING POINT: Not Applicable

AUTO IGNITION TEMPERATURE: Not Applicable

pH: Not Applicable

FLAMMABILITY: Not Applicable

DECOMPOSITION TEMPERATURE: Not Applicable

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:

EXPLOSIVE PROPERTIES: Not explosive: does not contain chemical groups associated with explosive properties

OXIDIZING PROPERTIES: Not oxidizing: does not contain chemical groups associated with oxidizing properties

COLOR: Various Colors

BOILING POINT: Not Applicable

SPECIFIC GRAVITY: 0.86 (Water =1)

EVAPORATION RATE (BuAc=1): Not Applicable

FLASH POINT: Not applicable

VAPOR PRESSURE: Not Applicable

VAPOR DENSITY: Not Applicable

VISCOSITY: Not Applicable

10. STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage.

CONDITIONS TO AVOID: Extreme temperatures, incompatible materials.

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY WITH OTHER MATERIALS: This product is incompatible with Bromine pentafluoride, sodium nitrate, fluorine, strong oxidizers, alkali carbonates, alkali hydroxides, potassium and acetic anhydride.

HAZARDOUS DECOMPOSITION: This product has fire retardants in it to prevent or delay combustion.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern as cellulose insulation is not absorbed through intact skin.

SYMPTOMS RELATED TO THE PHYSICAL, AND CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

These products are not intended for ingestion. Occasional mild irritation of nose and throat may occur from inhalation of dusts at levels greater than 10 mg/m³. Prolonged exposure to dust levels in excess of regulatory limits should always be avoided.

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 inorganic 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.

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ACUTE HEALTH HAZARDS

Cellulose:

Oral LD₅₀ (rat): >5,000 mg/kg of body weight
Dermal LD₅₀ (rabbit): >2,000 mg/kg of body weight
Inhalation LC₅₀ (rat): >5.8 mg/L
Dermal irritation/corrosivity: Nonirritating, nonsensitizing.
Eye irritation: No information found.

Boric acid:

Oral LD₅₀ (rat): 2,550 mg/kg of body weight
Dermal LD₅₀ (rabbit): >2,000 mg/kg of body weight
Inhalation LC₅₀ (rat): >2.01 mg/L
Dermal irritation/corrosivity: Nonirritating, nonsensitizing.
Eye irritation: Nonirritating

Sodium tetraborate pentahydrate:

Oral LD₅₀ (rat): 3,305 mg/kg of body weight
Dermal LD₅₀ (rabbit): >2,000 mg/kg of body weight
Inhalation LC₅₀ (rat): >2.0 mg/L
Dermal irritation/corrosivity: Nonirritating, nonsensitizing.
Eye irritation (rabbit): Irritating, but reversible within 14 days.

Hydrotreated paraffinic distillate oil:

Oral LD₅₀ (rat): >5,000 mg/kg of body weight
Dermal LD₅₀ (rabbit): >5,000 mg/kg of body weight
Inhalation LC₅₀ (rat): No information found.
Dermal irritation/corrosivity: Mildly irritating.
Eye irritation: Mildly irritating.

CHRONIC HEALTH HAZARDS: No chronic effects from cellulose, boric acid, sodium borate, or mineral oil have been reported in the literature. Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to inorganic borates and sodium borate dust.

REPRODUCTIVE TOXICITY: Borate-treated cellulose insulation consists of cellulose fiber treated with boric acid (H₃BO₃), sodium tetraborate pentahydrate (Na₂B₄O₇·5H₂O), sodium tetraborate decahydrate (Na₂B₄O₇·10H₂O), or a combination thereof.

Borate-treated cellulose insulation was tested for purposes of hazard classification under the Occupational Safety and Health Administration's 2012 Hazard Communication Standard. In a study conducted under OECD Guideline 414, there were no developmental effects in rats exposed to up to 270 mg/m³ (the highest exposure tested). In workers chronically exposed to high levels of borates for several years by way of inhalation, food, and drinking water, there was a clear absence of any reproductive effects.

For boric acid and substantially similar mixtures (specifically, sodium tetraborate pentahydrate and sodium tetraborate decahydrate), the reproductive toxicity is substantially equivalent; therefore, the same hazard category (i.e., no classification for reproductive toxicity) may be applied.

Classification: No classification.

CARCINOGENICITY: Cellulose, boric acid, sodium borate, or mineral oil are not listed as a known or suspected carcinogen by OSHA, ACGIH, NTP, or IARC.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

These products have not been tested for mobility in soil.

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ENVIRONMENTAL TOXICITY:

These products have not been tested for persistence or biodegradability. The components may slowly degrade in the environment and form a variety of organic and inorganic materials; however, no specific information is known.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Recover, reclaim or recycle when practical.

Dispose of material in accordance with federal, state and local requirements. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

14. TRANSPORTATION INFORMATION

Domestic (Land, D.O.T.), International (Water, I.M.O.), International (Air, I.C.A.O.)

This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101. Non-Regulated.

15. REGULATORY INFORMATION

FEDERAL REGULATORY STATUS

Chemical Inventory Status - Part 1

Ingredient	<u>TSCA</u>	<u>EC</u>	<u>Japan</u>	<u>Australia</u>
All Ingredients	YES	YES	YES	YES

Chemical Inventory Status - Part 2

Ingredient	<u>Korea</u>	<u>DSL</u>	<u>CANADA</u>	<u>Phil.</u>
All Ingredients	YES	YES	<u>NDSL</u>	YES
			NO	

Federal, State & International Regulations - Part 1

Ingredient	<u>-SARA 302-</u>	<u>List</u>	<u>-SARA 313-</u>
All Ingredients	<u>RQ</u>	<u>TPQ</u>	<u>Chemical Catalog</u>
	NO	NO	NO

Ingredient	<u>CERCLA</u>	<u>RCRA 261.33</u>	<u>TSCA 8(d)</u>
All Ingredients	None	NO	NO

CALIFORNIA PROP 65: This product does not contain an ingredient(s), above the safe harbor limits, which are known to the state of California to cause cancer, birth defects, or other reproductive harm.

HAZARDS DISCLOSURE: This product does contain known hazardous materials in reportable levels as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains known hazardous materials.

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity: No (Pure / Liquid)

STATE REGULATIONS:

PROP 65 - WARNING:

THIS PRODUCT DOES NOT CONTAIN A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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RCRA 40 CFR: None.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: The components of this product are on the DSL Inventory, or are exempted from listing.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Classification is the same as noted in Section 2 Classification under OSHA HCS 2012.

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: Korea (TCCL), Australia (AICS), China (Draft), PICCS (Philippines-RA6969), Japan (ENCS METI/MOL).

16. OTHER INFORMATION

Label Requirements:

WARNING! THIS PRODUCT MAY CHEMICALLY AND MECHANICALLY IRRITATE CONTAMINATED SKIN TISSUE AND RESPIRATORY TRACT. THIS PRODUCT MAY BE HARMFUL IN EVENT OF INHALATION OVER THE RECOMMENDED EXPOSURE LEVELS.

Hazardous Material Information System (HMIS):	Health	1
	Flammability	0
	Reactivity	0
	Personal Protection	B

National Fire Protection Association (NFPA) 1-Health, 0-Flammability, 0-Reactivity

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

Date: December 8, 2015

Supersedes Date: June 1, 2015

ADDITIONAL INFORMATION:

Although the information set forth herein is presented in good faith and believed to be correct as of the date of issuance, it has been furnished by our suppliers; consequently, International Cellulose Corporation makes no representations or warranties, express or implied, with respect to information herein presented. The information set forth herein is supplied upon the condition that the persons receiving same will make their own determination as to suitability for their purposes prior to use and relates only to the specific product described and not to such product in combination with any other product. In no event will International Cellulose Corporation be responsible for damages of any nature resulting from the use of or reliance upon this information.