

Submittal Cover Sheet

Date: _____ No. of Copies: _____

Paper
 Electronic

Project Name: _____
Project Address: _____

Specification Section Number: _____
Specification Section Name: _____
Material: _____

Color: _____
Thickness: _____
R-Value: _____
Noise Reduction Coefficient: _____

Architect/Contractor Stamp:

SonaSpray[®] "fc"

Acoustical treatment

- ATTRACTIVE TEXTURED FINISH
- HIGH NRC RATING: .65 @ 1/2"
- LIGHT REFLECTIVE FINISH
- IDEAL FOR NEW CONSTRUCTION & RENOVATION

PRODUCT DESCRIPTION

SonaSpray "fc" is a spray applied acoustical texture designed for a wide range of project types. SonaSpray "fc" provides an attractive, high performance solution to acoustical and lighting design objectives in both new construction and renovation projects. Typical installations include: schools, churches, passenger terminals, libraries, cafeterias, offices, hotels and condominiums.

SonaSpray "fc" is available in White and Arctic White. Specially matched colors are also a design option.

ACOUSTICAL PERFORMANCE

SonaSpray "fc" as tested by a NVLAP accredited acoustical laboratory per ASTM C-423, provides an exceptionally high noise reduction coefficient (NRC). A typical installation of 1/2" thick on solid backing has an unequaled NRC of .65. At its maximum recommended thickness of 1", the NRC is .90. Please refer to the table on the reverse page for complete values.



DURABILITY AND MAINTENANCE

The adhesive used to apply SonaSpray "fc" provides a strong, durable and resilient bond. This unique combination

of properties provides remarkable durability. SonaSpray "fc" will resist impact and abrasion without cracking or spalling, typical to many cementitious or plaster based materials. In areas where even high abrasion resistance may be desirable, SonaSpray "fc" Dura-K may be specified. This provides ever greater bond and compressive strength without reducing the acoustical performance. SonaSpray "fc" can be painted with water based latex or acrylic paint if desired, without appreciably reducing the NRC value.

SUBSTRATE COMPATIBILITY

SonaSpray "fc" is spray applied and will conform to any surface configuration such as barrel vaults, concrete "T", corrugated decks, pan construction and other complex surfaces. The high performance adhesive will bond to virtually all common construction materials including sheetrock, plaster, wood, metal and concrete. Some surfaces (such as water stained ceilings, wood and oxidized metal) will require sealing to prevent migratory staining of the SonaSpray "fc".



Additional information, design assistance, Material Safety Data Sheets, other product literature or a list of prominent installations are available on request. SonaSpray "fc" is installed by contractors licensed and trained by International Cellulose Corporation.

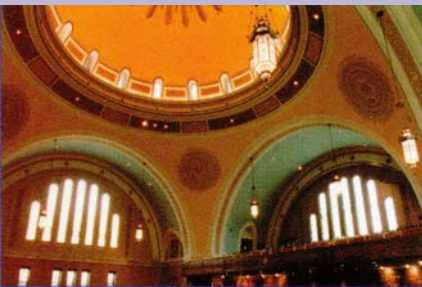
PARTIAL LIST OF SIMILAR PROJECTS



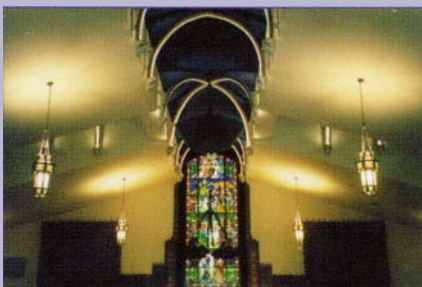
DOANE COLLEGE
CRETE, NE



MAPLE LANE JUVENILE CENTER
CENTRALIA, WA



TEMPLE OHABEI SHALOM
BROOKLINE, MA



ST. JOAN OF ARC
PHOENIX, AZ

Section 09212 SonaSpray "fc" Spray On Acoustical Treatment Specification Guide

PART 1 - GENERAL

1.01 Section Includes

EDIT ACOUSTICAL WHERE NEEDED

- A. Sprayed cellulose insulation finish system.

1.02 Related Items

- A. Clips, hangers, supports, sleeves and other attachments to spray bases are to be placed by other trades prior to the application of sprayed insulation.
- B. Ducts, piping, conduit or other suspended equipment shall not be positioned until after the application of sprayed insulation.

1.03 Submittals

- A. Copy of manufacturer's ISO 9002 Certification.
- B. Submit 2 copies of test reports indicating compliance with the following:

Light reflectivity minimum 81 + Arctic White
73 + White

NRC VALUES per ASTM C-423 conducted by a NVLAP certified testing laboratory:

	125	250	500	1000	2000	4000	NRC
0.50 ⁻¹	.08	.16	.46	.87	1.07	1.12	.65
0.75 ⁻²	.25	.36	.74	.98	.99	.99	.75
0.75 ⁻³	.17	.58	.91	.89	.87	.84	.80
1.00 ⁻¹	.12	.38	.88	1.15	1.15	1.15	.90

¹ on solid backing ² on lathe/plaster ³ on ribbed metal deck

Flame Spread Index 5 ASTM E-84/UL 723
Smoke Developed 5 ASTM E-84/UL 723

Bond Strength
SonaSpray "fc" >600 psf ASTM E-736
SonaSpray "fc" Dura-K >900 psf ASTM E-736

Compression Strength
SonaSpray "fc" >400 psf ASTM E-761
SonaSpray "fc" Dura-K >600 psf ASTM E-761

- C. Manufacturer's written certification that product contains no asbestos, fiberglass or other man made mineral fibers.

1.04 Quality Assurance

- A. Manufacturer must be ISO 9002 Certified
- B. Applicator: Licensed by manufacturer.
- C. Manufacturer must subscribe to independent laboratory follow-up inspection services of Underwriter Laboratories. Each bag shall be labeled accordingly.
- D. Mock-up: Apply a 100 square foot representative sample to be reviewed by the Architects and/or owner prior to proceeding.

1.05 Quality Assurance

- A. Materials shall be delivered in original unopened containers bearing name of manufacturer, product identification and reference to U.L. testing.
- B. Store materials dry, off ground and under cover.
- C. Protect liquid adhesive from freezing.

PART 2 - PRODUCTS

2.01 Acceptable Manufacturers

- A. International Cellulose Corporation
12315 Robin Boulevard
Houston, Texas 77045
(713) 433-6701 or (800) 444-1252
FAX: (713) 433-2029

2.02 Materials: (Specify desired product)

- A. SonaSpray "fc" Acoustical Finish
- B. SonaSpray "fc" Dura-K
**Color selection will affect price
- C. Color shall be as indicated in Schedule 3.05

PART 3 - EXECUTION

3.01 Examination

- A. Examine surfaces and report unsatisfactory conditions in writing. Do not proceed until unsatisfactory conditions are corrected.
- B. Verify surfaces to receive spray insulation to determine if priming/sealing is required to ensure bonding and/or to prevent discoloration caused by migratory stains.

3.02 Preparation

- A. Provide masking, drop cloths or other satisfactory coverings for materials/surfaces that are not to receive insulation to prevent damage from overspray
- B. Coordinate installation of the sprayed cellulose fiber with work of other trades
- C. Prime surfaces as required by manufacturer's instructions or as determined by examination.

3.03 Installation

- A. Average thickness to achieve NRC value of 0.65 or greater.
- B. Install spray applied insulation according to manufacturer's recommendations
- C. Cure insulation with continuous natural or mechanical ventilation.
- D. Remove and dispose of over-spray.

3.04 Protection

- A. Protect finished surface under provisions of Division 1.

3.05 Schedule

- A. Provide a schedule when insulation requires listing by color, insulation value, NRC values and other attributes.



P.O. Box 450006
12315 ROBIN BLVD.
HOUSTON, TX 77245
800/444-1252
713/433-6701
713/433-2029 (FAX)
icc@spray-on.com (E-mail)

(c) 2000 ICC ALL RIGHTS RESERVED. SonaSpray^(R) "fc" ICC, PRINTED IN USA 10M, 3/99



LEED™ Contribution Points
Product: SonaSpray “fc”
02/2011

MR Credit 4.1: Recycled Content: 10%

1 Point

Intent:

Increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

SonaSpray “fc”: 80% Post-Consumer

MR Credit 4.2: Recycled Content: 20%

1 Point in Addition to MR Credit 4.1

EQ Credit 4.1: Low- Emitting Materials: Adhesives & Sealants

1 Point

Intent:

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

SonaSpray’s adhesive VOC Content is < 19.40 gm/l



EQ Credit 4.2: Low- Emitting Materials: Paints & Coatings

1 Point

Intent:

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

SonaSpray's VOC Content is < 19.40 gm/l

EQ Credit 4.4: Low- Emitting Materials: Composite Wood & Agrifiber Products

1 Point

Intent:

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

SonaSpray does not contain any added urea-formaldehyde resins

MATERIAL SAFETY DATA SHEET

SONASPRAY FC, K-13

Last Updated December 8, 2015



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **SONASPRAY FC, K-13**

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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SONASPRAY FC, K-13

Last Updated December 8, 2015

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.

MATERIAL SAFETY DATA SHEET

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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.

MATERIAL SAFETY DATA SHEET

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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.



SAFETY DATA SHEET

SK-2000/SK-2000 FC Adhesive

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

1. PRODUCT IDENTIFICATION

1.1 TRADE NAME (AS LABELED):

SK-2000/SK-2000 FC Adhesive

SYNONYMS:

Copolymer Adhesive

CAS#:

Not Applicable

1.2 PRODUCT USE:

Insulation Coating

1.3 MANUFACTURER'S NAME (North America):

International Cellulose Corporation

ADDRESS:

12315 Robin Boulevard, Houston, TX 77045

BUSINESS PHONE#:

1-713-433-6701

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

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

EMERGENCY PHONE#:

www.spray-on.com

WEBSITE:

icc@spray-on.com

EMAIL:

1.4 PREPARATION INFORMATION:

DATE OF CURRENT REVISION:

May 11, 2015

DATE OF LAST REVISION:

April 27, 2010

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

Product Description: This product is a white liquid, with a sweet odor.

Health Hazards: This product may cause mild irritation of contaminated tissues and may cause sensitization by skin contact in susceptible individuals.

Flammability Hazards: If heated to high temperatures for prolonged period, the water in this product can evaporate off and the residue may ignite. When involved in a fire, this material may decompose and produce irritating vapors and toxic gases (e.g., carbon oxides and sodium oxides).

Reactivity Hazards: May hydrolyze in the presence of alkalis.

Environmental Hazards: Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

US DOT SYMBOLS
Non-Regulated Material

CANADA (WHMIS) SYMBOLS
Complies with WHMIS 2015

EUROPEAN and (GHS) Hazard Symbols
None
Signal Word: None

2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product does not meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 AND the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

Classification of the substance or mixture according to Regulation (EC) No1272/2008 Annex VI

CAS# 9002-89-5 This substance is not classified in the Annex VI of Directive 67/548/EEC

Substances not listed either individually or in group entries must be self classified.

Component(s) Contributing to Classification(s)

All Components

2.2 LABEL ELEMENTS:

GHS Hazard Classification(s):

None known

Hazard Statement(s):

None known

Precautionary Statement(s):

None known



SAFETY DATA SHEET

SK-2000/SK-2000 FC Adhesive

2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: Not expected to cause adverse health effects from exposure to this product.

ACUTE:

INHALATION: None known

CONTACT WITH SKIN: None known

EYE CONTACT: None known

INGESTION: Not expected to be a route of entry based on size and configuration.

CHRONIC: None known

TARGET ORGANS: Acute: None known

Chronic: None Known

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	Hazard Classification
Polyvinyl Alcohol Polymers and Copolymers	7 – 13%	9002-89-5	209-183-3	Not Classified
Vinyl Acetate/Ethylene Copolymers	10 – 20%	Proprietary	Proprietary	Not Classified
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).				

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT: If this product enters the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual should seek medical aid to ensure proper treatment.

SKIN CONTACT: If this product contaminates the skin, promptly wash with soap and water. Also wash after use or before eating or smoking. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual should seek medical attention if any adverse effect occurs.

INHALATION: If breathing becomes difficult remove contaminated individual to fresh air. Seek medical attention if breathing difficulties continues.

INGESTION: Routine use of this product is not expected to cause any situation which could lead to ingestion. If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION.

If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin and respiratory disorders, as well as conditions involving the "Target Organs" (see Section 3, Hazard Identification) may be aggravated by prolonged overexposures to this product.

4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Exposure to this product is not expected to cause adverse health effects.

4.3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Yes Carbon Dioxide: Yes

Foam: Yes Dry Chemical: Yes

Halon: Yes Other: Any "C" Class

5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No



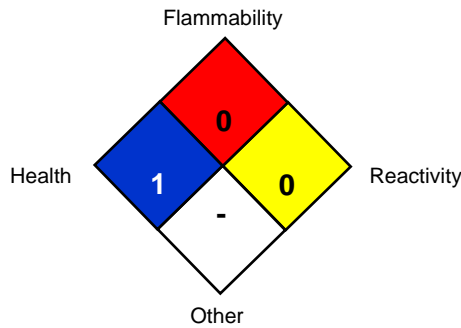
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5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)	1		
FLAMMABILITY HAZARD (RED)	0		
PHYSICAL HAZARD (YELLOW)	0		
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See section 8.2 for Exposure Controls.

6.2 ENVIRONMENTAL PRECAUTIONS:

None known

6.3 SPILL AND LEAK RESPONSE:

Proper protective equipment should be used. Personnel should be trained for spill response operations.

Small Spills: Wear rubber gloves, safety glasses, and appropriate body protection. Wipe or absorb spill with inert material. Pick up and place in suitable containers and keep for proper disposal.

Large Spills: Trained personnel following pre-planned procedures should handle non-incident releases. Minimum Personal Protective Equipment should be gloves, boots, and safety glasses. Contain and transfer into suitable containers and keep for recovery and use or disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations). For spills on water, contain, minimize dispersion and collect. Dispose of recovered material and report spill per regulatory requirements.

7. HANDLING and STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Read instructions before use.

7.2 STORAGE AND HANDLING PRACTICES:

All employees who handle this material should be trained to handle it safely. Avoid contact with eyes, skin and clothing. Store at 33°F to 120°F (1°C to 49°C). Avoid contamination. Keep from freezing.

7.3 SPECIFIC USES:

Insulation Coating

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Polyvinyl Alcohol Polymers and Copolymers	9002-89-5	Not Listed	Not Listed
Vinyl Acetate/Ethylene Copolymers	Proprietary	Not Listed	Not Listed



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8.2 EXPOSURE CONTROLS:

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation, and process enclosure if necessary, to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

RESPIRATORY PROTECTION: Respiratory protection is generally not needed for normal handling. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under U.S. Federal OSHA's Respiratory Protection Standard (1910.134-1998) or the regulations of various U.S. States, Canada, EU Member States, or those of Japan. Air-purifying respirators with dust/mist/fume filters are recommended if operations may produce mists or sprays from this product.

EYE PROTECTION: Safety glasses and/or face shield or splash goggles, as handling or use conditions require. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Liquid proof gloves such as Neoprene gloves. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: As needed to minimize contact. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: This product is a clear to white liquid.

ODOR: Sweet odor

ODOR THRESHOLD: Not Applicable

pH: Not established

MELTING/FREEZING POINT: Not Applicable

BOILING POINT: Not Applicable

FLASH POINT: Not Applicable

EVAPORATION RATE (n-BuAc=1): Not established

FLAMMABILITY (SOLID, GAS): Not Applicable

UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: Not Applicable

VAPOR PRESSURE (mm Hg @ 20°C (68°F): 17.0 mm Hg

VAPOR DENSITY: Not established

RELATIVE DENSITY: Not Applicable

DENSITY: Not Applicable

SPECIFIC GRAVITY: NE

SOLUBILITY IN WATER: Soluble

WEIGHT PER GALLON: Not Applicable

PARTITION COEFFICIENT (n-octanol/water): Not Applicable

AUTO-IGNITION TEMPERATURE: Not Applicable

DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: Not Applicable

VOC g/l / Lb/gal: Not Applicable

9.2 OTHER INFORMATION:

No additional information available.

10. STABILITY and REACTIVITY

10.1 REACTIVITY:

This product is not reactive.



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10.2 STABILITY:

Stable under conditions of normal storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur

10.4 CONDITIONS TO AVOID:

Avoid exposure to or contact with extreme temperatures and incompatible chemicals.

10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Mineral acids, bases, alkalis.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion: Carbon oxides and sodium oxides. Hydrolysis: None known

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

TOXICITY DATA:

Polyvinyl Alcohol Polymers and Copolymers Acute oral toxicity: LD 50 oral rat: >20 g/kg, LD50 oral, mouse: 14700 mg/kg

SUSPECTED CANCER AGENT: The components of these products are listed by agencies tracking the carcinogenic potential of chemical compounds as follows: Polyvinyl Alcohol: IARC-3 (Not Classifiable as to Carcinogenicity to Humans) Balance of components are not listed and therefore are neither considered to be nor suspected to be cancer causing agents.

IRRITANCY OF PRODUCT: Mists and sprays of this product can cause eye irritation. Prolonged or repeated skin contact may cause dermatitis.

SENSITIZATION TO THE PRODUCT: This product is not considered a sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans.

Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans.

Teratogenicity: The components of this product are not reported to produce teratogenicity effects in humans.

Reproductive Toxicity: The components of this product are not reported to produce reproductive effects in humans.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: None known

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: None known

ASPIRATION HAZARD: None

12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

No toxicity data available.

12.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

12.4 MOBILITY IN SOIL:

No specific data available on this product.

12.5 RESULTS OF PBT ANDvPvB ASSESSMENT:

No specific data available on this product.

12.6 OTHER ADVERSE EFFECTS:

No specific data available on this product.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.7 WATER ENDANGERMENT CLASS:

Water endangering in accordance with EU Guideline 91/155-EWG. Not determined

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.



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13.2 EU Waste Code:

Not determined

14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

14.1 PROPER SHIPPING NAME: Non-Regulated Material

14.2 HAZARD CLASS NUMBER and DESCRIPTION: None

14.3 UN IDENTIFICATION NUMBER: None

14.4 PACKING GROUP: None

14.5 DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

RQ QUANTITY: None

14.6 MARINE POLLUTANT: None of the components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.7 SPECIAL PRECAUTIONS FOR USER:

None known

14.8 INTERNATIONAL TRANSPORTION:

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

14.9 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND IBC CODE:

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATION

15.1 UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this article are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

OTHER U.S. FEDERAL REGULATIONS: None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): The Acetaldehyde, Formaldehyde components present in this product in trace amounts and are on the California Proposition 65 list. Warning! This product contains chemicals known to the State of California to cause cancer.

15.2 CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The raw materials used in this article are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Complies with WHMIS 2015

15.3 EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does not meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

See Section 2 for full Details.

15.4 AUSTRALIAN INFORMATION FOR PRODUCT:

The raw materials used in this article are listed on the International Chemical Inventory list.



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15.5 JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:

The components of this article are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

JAPANESE ENCS INVENTORY:

The raw materials used in this article are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:

No component of this article is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

15.6 INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the raw materials used in producing this article on individual country Chemical Inventories is as follows:

Asia-Pac: Listed

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftliste List of Toxic Substances: Listed

U.S. TSCA: Listed

16. OTHER INFORMATION

PREPARED BY: Paul Eigbrett – (**GHS MSDS Compliance PLUS**)

DATE OF PRINTING: May 11, 2015

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END OF SDS SHEET