07 21 29/ICC
BuyLine 3462

ISO 9001:2000
Certified by IQ Net
AIB-Vincotte Registrars

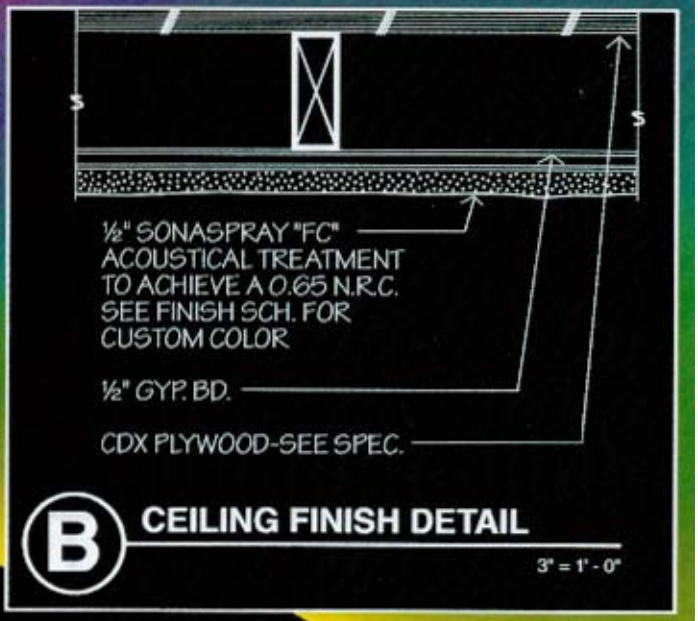
K-13
spray-on systems®

Thermal & Acoustic Insulation

A INSUL. AT MTL. DECK
3" = 1' - 0"

SonaSpray® "fc"
Acoustical treatment

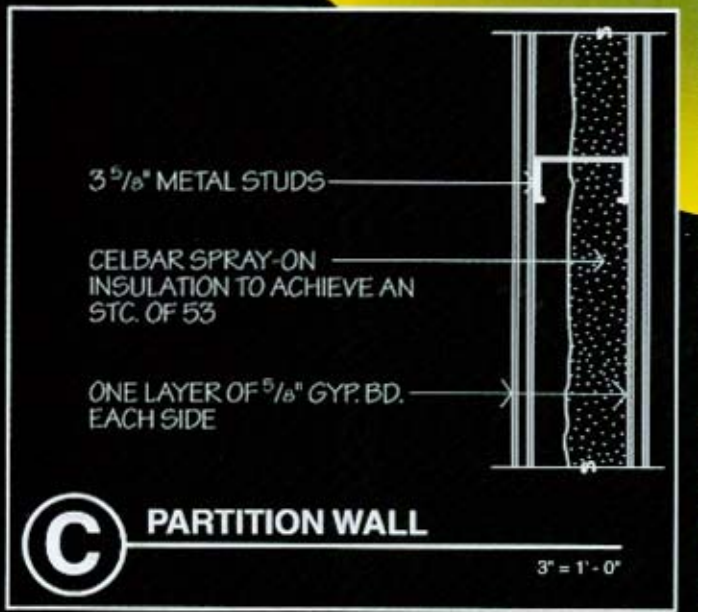
Spray-On Acoustical Treatment



B CEILING FINISH DETAIL
3" = 1' - 0"

celbar
spray-on systems

Sound Transmission Control



C PARTITION WALL
3" = 1' - 0"

International Cellulose® Corporation

Compatible, versatile and economical multifunction insulation system

CSI 07218 **(800) 444-1252**

The Custom Spray System

K-13 is the spray-applied insulation tailored to your specific project requirements for insulation (R value), noise reduction (NRC), color, durability, condensation control, texture, and aesthetics. In addition, it usually provides these features at lower installed prices than many common systems such as rigid board and batt insulations, sprayed plasters, and acoustical ceilings.

It is applied to virtually any properly prepared surface configuration of wood, steel, concrete, glass and other common construction surfaces. K-13 can be sprayed up to five inches thick overhead in one application without mechanical support. Additionally, K-13 serves as the exposed finish requiring no additional materials.

A Total System: Fiber, Binder, Application

K-13 is a total system of recycled natural fibers, chemical treatment, binding system and application method. The K-13 system begins with specially prepared cellulose fibers which are chemically treated to add resistance to fire, mold and mildew. K-13 is produced in a strict, quality controlled manufacturing process.

K-13 is applied by an international network of licensed applicators through approved fiber machines and nozzles for control of the fiber/binder ratio. During application, the K-13 fibers are combined with a patented adhesive. The finished product is a strong, durable monolithic coating of a predetermined thickness. Some surfaces will require priming prior to being sprayed.

Naturally Tough - Naturally Attractive

With its texture and wide variety of colors, K-13 is especially attractive as a surface finish in new construction as well as renovation projects. Available in six standard colors, K-13 can also be specified in specially matched custom colors.

BLACK	GRAY	LT. GRAY	WHITE	BEIGE	TAN

Color selection will affect the final price

Thermal Performance

K-13 insulates by creating dead air spaces between and within its hollow fibers. Because K-13 fibers are sprayed-in-place, they fill cracks, seams and voids, forming a monolithic coating over the substrate which reduces air infiltration. Unlike prefabricated insulations, K-13 has no voids or compressed areas to reduce thermal efficiency. The result is a more effective in-place product with exceptionally low heat transfer characteristics.

The patented adhesive utilized in the installation of K-13 adheres to virtually all common construction materials including: metal, wood, concrete, urethane, styrofoam and glass. Some surfaces may require pretreatment prior to installing K-13. This unique adhesive provides unequaled strength allowing applications of 3/4 inch to over 5 inches without mechanical support. This capability provides R-values from 3 to over 19.

Condensation Control

For areas such as indoor pools and ice arenas, K-13 aids in condensation control. The proper combination of K-13 and ventilation prevents condensation on metal, concrete and other surfaces. K-13 actually reduces ventilation equipment investment and operating costs.

This manufacturing facility utilized K-13 for acoustical control and much needed thermal control

The appealing textures and colors of K-13 provide renovation projects with attractive exposed ceilings.

By reducing ambient noise and reverberation, K-13 creates a more accommodating facility.

Acoustical Performance

The resilient fibers of K-13 absorb sound energy instead of reflecting it, reducing reverberation time and making speech and music more intelligible. Excessive noise is eliminated with the application of K-13 while greatly improving ambient sound quality in a wide variety of building projects including auditoriums, sports facilities, detention facilities, television and sound studios, convention centers and parking garages.

K-13 Sprayed Thermal and Acoustical Insulation ASTM C-423 on Solid Backing*

Inches	125HZ	250HZ	500HZ	1000HZ	2000HZ	4000HZ	NRC
0.63	0.05	0.16	0.44	0.79	0.90	0.91	.55
1.00	0.08	0.29	0.75	0.98	0.93	0.96	.75
1.00**	0.47	0.90	1.10	1.03	1.05	1.03	1.00
1.50	0.15	0.51	0.95	1.06	0.99	0.98	.90
2.00	0.26	0.68	1.05	1.10	1.03	0.98	.95
2.50	0.41	0.84	1.05	1.07	1.02	0.99	1.00
3.00	0.57	0.99	1.04	1.03	1.00	1.00	1.00

K-13 Sprayed Thermal and Acoustical Insulation Applied as 1.5" Ribbed Metal Deck*

Inches	125HZ	250HZ	500HZ	1000HZ	2000HZ	4000HZ	NRC
1.50	0.36	0.89	1.26	1.07	1.01	1.00	1.05
2.00	0.56	0.94	1.22	1.04	0.99	0.99	1.05
2.50	0.77	0.99	1.17	1.02	0.97	0.99	1.05
3.00	0.97	1.04	1.13	0.99	0.95	0.98	1.05

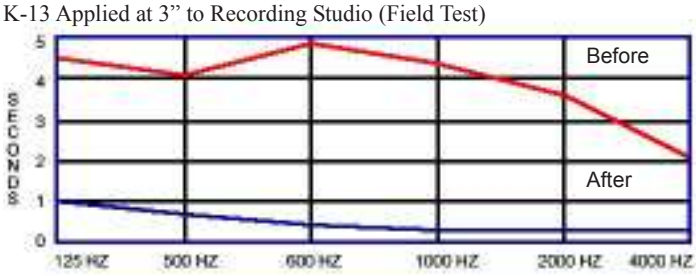
K-13 Sprayed Thermal and Acoustical Insulation Applied to 3" Fluted Metal Deck

Inches	125HZ	250HZ	500HZ	1000HZ	2000HZ	4000HZ	NRC
1.50	0.55	0.92	1.11	1.02	0.95	0.99	1.00
2.75	0.69	0.98	1.17	1.03	0.97	1.04	1.05

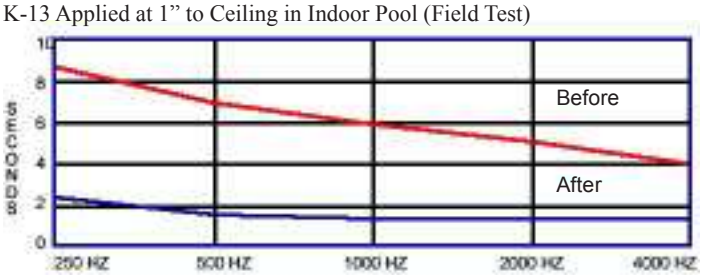
***Some values interpolated** ****On lath**

Sound Results

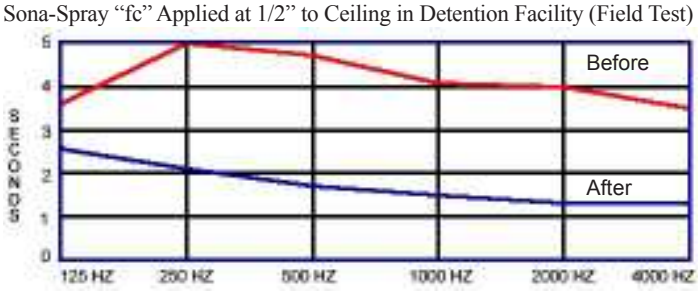
K-13 Applied at 3" to Recording Studio (Field Test)



K-13 Applied at 1" to Ceiling in Indoor Pool (Field Test)



Sona-Spray "fc" Applied at 1/2" to Ceiling in Detention Facility (Field Test)



Approvals and Ratings

CSI 07218 www.spray-on.com

These fire ratings are derived from product tests per ASTM standards and are used solely to measure and describe properties of materials and products in response to heat and flame under controlled laboratory conditions. They are not intended to reflect hazards presented by these or any other materials under actual fire conditions

Fire Performance Ratings

K-13 has been rated and approved by Factory Mutual Research Corporation for use in the following categories:

- **Category I:** As an interior finish material of low fire hazard (Class I Building Material) over noncombustible surfaces not requiring automatic sprinkler protection in and of itself.
- **Category II:** As a protective coating to delay the ignition and reduce the surface burning rate of combustible wood and cellulose fiber building materials.
- **Category III:** As a protective coating to delay the ignition and reduce the surface burning rate of low melting, combustible cellular plastic building materials and to protect their dimensional stability for a brief period.
- **Category IV:** As a protective coating for building structural steel to supplement automatic sprinkler protection in preventing structural failure temperatures of the steel in high fire hazard occupancies.
- **Category V:** As a protective coating to the underside of Class II insulated steel roof deck construction to sufficiently lower the rate of fuel contribution from the Class II deck components to qualify the construction as Class I allowing automatic sprinkler protection to be omitted where permissible under Factory Mutual Standards.

Surface Burning Characteristics

K-13 has a Class 1, Class A flame spread rating per ASTM E-84, UL-723, NFPA-255 and UBC-42

Flame Spread	5
Smoke developed	5

Underwriters' Laboratories - Ref. #R5499

ASTM Standards Compliance

ASTM C-518	Thermal Conductivity
ASTM E-119	Full Scale Fire Wall Test, including Hose Stream Test
ASTM E-84	Surface Burning Characteristics
ASTM C-423	Noise Reduction Coefficients
ASTM C-523	Light Reflectance
ASTM E-736	Bond Strength
ASTM E-859	Air Erosion
ASTM C-739	Moisture Absorption
ASTM E-90	Sound Transmission Loss
ASTM E-413	Sound Transmission Loss
ASTM E-1042	Acoustical Absorption
ASTM C-1149	Spray-applied Cellulose Insulation

Test reports available upon request.

Miscellaneous Approvals and Specifications

ICBO - No. 2262
SBCCI - No. 9566

Underwriters Laboratories - Ref. No. R5499

Los Angeles - RR-24311

New York - 79-73-SM

Dade County - 92-0107.8

Federal Defence Logistics Agency Cage Code: ONJU2

Department of the Navy Guide Specifications - NFGS-07218

Corps of Engineers Guide Specifications - CE-201.01

Federal Specification - SS-S-111C

Factory Mutual Research - Report Nos. 19678,20399, and 24703

Meets California Bureau of Home Furnishings Standards

Resource Conservation and Recovery Act

EPA 40 CFR PArt 248

The St. Thomas Moore Catholic Church used SonaSpray "fc" for acoustical control and aesthetics.

By directly reducing noise and reverberation levels, K-13 provides this gymnasium with superior acoustic performance.

Product Limitations

K-13, SonaSpray "fc", and Celbar Spray should not be used in areas where there is prolonged exposure to water or heat in excess of 150 degrees F (65 degrees C). Nor should it be applied in areas requiring a washable surface, or where combustible contaminates may become hazardous to the insulation. These contaminates will provide a fuel source and will burn when ignited and fire may spread.

Special Precautions

The fire retardant chemicals used in K-13, SonaSpray "fc", and Celbar Spray are water soluble. When the insulation is used in areas where condensation will form or where it is in contact with water, a periodic fire retardant over-spray may be necessary.

Celbar is applied with water and should not be sprayed on laminated wood paneling as it could cause warping. Celbar should not be used in areas where vinyl or foil wall covering or other vapor barriers are used on both sides of the wallboard, unless Celbar is allowed to dry completely before closing up the wall.

Surfaces receiving K-13 and SonaSpray "fc" should be checked for possible contaminates, i.e., rust, dirt, water stains, etc. prior to application. These areas should be primed/sealed to prevent bleed through.

For further information on limitations and precautions see I.C.C. Warning Bulletin SF-387.

Warranty

International Cellulose Corporation (I.C.C.) warrants its products to be free from defects in materials and workmanship at the time of shipment. Application warranties are provided by the approved contractor.

It is the responsibility of the user to determine compliance of the product with local building codes and other regulatory bodies.

I.C.C. is herein publishing information and data based on specific and generic tests. I.C.C. believes this data is as reliable as the present state of the art in fire, thermal, and acoustical testing, and can be used only as a guide for design. I.C.C. is not responsible for building design, appearance, or workmanship and makes no guarantee of performance.

I.C.C. specifically disclaims any warranty of merchantability or fitness for a particular purpose. In no event shall I.C.C. be liable for special, indirect or consequential damage.

Just Call 800/444-1252

See and hear how K-13, SonaSpray "fc" and Celbar can improve your projects with our free videos.
Design assistance, specification sheets, technical data and test reports are available upon request.
ICC Literature is also available in Spanish and German.
Internet Web Sites: http://www.spray-on.com
http://www.celbar.com

INTERNATIONAL CELLULOSE CORP.
P.O. BOX 450006
12315 ROBIN BLVD.
HOUSTON, TX 77245-0006, USA
TEL. 713/433-6701
TEL. 800/444-1252
FAX 713/433-2029
Website: www.spray-on.com E-mail icc@spray-on.com

K-13, SonaSpray "fc", and Celbar are manufactured from recycled fibers

Section 07218
K-13 Spray-On Systems
Specification Guide

PART 1 - GENERAL

1.01 Work Included:

A. The work to be performed under this section shall include all materials, equipment, labor and services required to install the sprayed cellulose fiber in accordance with these specifications and as indicated on the drawings if applicable.

B. A representative surface of not less than 100 square feet shall be sprayed and approved by the Architect and/or Owner prior to proceeding.

1.02 Related Work:

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 Systems Description/Quality Assurance:

A. Contractor must use a total system, encompassing equipment, fiber and adhesive as supplied and tested by the manufacturer. No substitution may be made.

B. Fibers supplied under this specification shall have each bag coded with the date and lot number of manufacture, and retained samples shall be kept by the manufacturer for not less than one year.

C. Contractor must be licensed and trained by the manufacturer.

1.04 Submittals:

A. Submit product data and manufacturer's certificate that the product meets or exceeds specified requirements.

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

1.05 Product Delivery, Storage and Handling:

A. Materials shall be delivered in original, unopened containers bearing name of manufacturer, product identification and reference to U.L. testing.

B. Store materials off ground, under cover and away from damp surfaces and keep material dry at all times.

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:

A. K-13 Spray-On-Systems.

1. Color shall be as indicated in Schedule 3.03. [Color selection will affect price]

2. Thermal Resistance values [if applicable]:
Apply at minimum thickness to provide an R-value as indicated in Schedule 3.03.

3. Field-tested bond strength report per ASTM E-736.

Tested @ >5 years
Not less than 400 psf
Not less than 600 times its weight @ 1”

4. The sprayed insulation must have been tested in sprayed form by U.L. and have each bag labeled with the reference to U.L. test results according to ASTM E-84/U.L. 723:

Tested at a minimum of 5"thickness, Class I

Flame Spread	Not To Exceed 5
Smoke Development	Not To Exceed 5

5. The sprayed insulation must meet appropriate Building Code Requirements.

6. The sprayed insulation must meet ASTM E-1042.

7. NRC Rating [if applicable]:
Install at a minimum thickness to achieve a NRC rating as indicated in the Schedule 3.03

K-13 Sprayed Thermal and Acoustical Insulation ASTM C-423 on Solid Backing*							
Inches	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
1.00	0.08	0.29	0.75	0.98	0.93	0.96	0.75
1.00**	0.47	0.90	1.10	1.03	1.05	1.03	1.00
2.00	0.26	0.68	1.05	1.10	1.03	0.98	0.95
3.00	0.57	0.99	1.04	1.03	1.00	1.00	1.00

K-13 Sprayed Thermal and Acoustical Insulation Applied at 1.5" Ribbed Metal Deck*							
Inches	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	NRC
1.50	0.36	0.89	1.26	1.07	1.01	1.00	1.05
3.00	0.97	1.04	1.13	0.99	0.95	0.98	1.05

*Some values interpolated **On lath

8. Non corrosive per UMB-80.

9. Bond Deflection per ASTM E-759.
   6" Deflection in 10' Span – No Spalling or Delamination

10. Cohesive Strength at time of application per Method WS-2000: > 700 Grams

PART 3 - EXECUTION

3.01 Inspection-Preparation-Installation:

A. The installing contractor shall examine all surfaces and report all unsatisfactory conditions in writing to the General Contractor and Architect. The work shall not proceed until unsatisfactory conditions are corrected.

B. Provide masking, drop cloths or other satisfactory coverings for all materials/surfaces which are not to receive insulation to prevent damage from over-spray.

C. Surfaces to receive spray insulation shall be inspected prior to application to determine if priming/sealing is required to insure bonding and/or to prevent discoloration caused by migratory stains. Prime accordingly.

D. Thickness will be determined as the minimum thickness measured as per ASTM E-605 field test procedure.

E. The work shall be coordinated with other trades whose work may be affected or have an effect on the installation of the sprayed cellulose fiber.

F. Installation, clean up and curing shall be accomplished according to the manufacturer's recommendations and common construction standards.

G. Provide natural or mechanical ventilation continuously to properly cure the insulation.

3.02 Protection:

A. Protect finished installation under provision of section 01500 and 01535.

3.03 Schedule:

A. K-13 to be spray applied to an average thickness of _____", N.R.C. _____, R-Value of ____. Color to be manufacturer's standard

K-13 Spray-On/SonaSpray/URE-K

Material Safety Data Sheet

Comment: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEc and Canadian Hazardous Products Act.

Identity (As used on Label and List)	
K-13 Spray-On/SonaSpray/URE-K	

Section I – General Information

Manufacturer's Name International Cellulose Corporation	**Emergency Telephone Number** (713) 433-6701
Address 12315 Robin Boulevard Houston, TX 77045	**Telephone Number for Information** (713) 433-6701
Date Prepared: 01/18/2007	
Signature of Preparer:	

Section II – Components/Hazardous Ingredients/Identity Information

Hazardous Components Common Names and Chemical Abstracts Service (CAS) Identifier Number	**OSHA PEL** 8-hr TWA, mg/m3	**ACGIH TLV** 8-hr TWA, mg/m3	**Other Rec. Limits (NIOSH)** 8-hr TWA	**Percent (%) by Wt**
Borates, Tetra, Sodium Salts (Borax) CAS 1303-96-4 (Generic) CAS 12179-04-3 (Pentahydrate)	**15 Total, 5 respirable**	**1 Pentahyrdate**	**1 Pentahydrate**	**5.5% Max**
Boric Acid (Orthoboric Acid, Boracic Acid) CAS 10043-35-3	**15 Total, 5 respirable**	**10**	**10 Total, 5 respirable**	**15% Max**
Calcium Carbonate (Calcite, Aragonite, Limestone) CAS 1317-65-3	**15 Total, 5 respirable**	**10**	**10 Total, 5 respirable**	**6.5% Max**
Cellulose (Macerated Paper) CAS 9004-34-6	**15 total, 5 respirable**	**10**	**10 Total, 5 respirable**	**80% Max**

Note: Manufacturer's recommended maximum workplace exposure limit: 5 mg/m3 Total Dust, dry basis, 8-hr time-weighted basis. When product is applied according to Manufacturer's instructions, evaluations during and after application indicate results significantly below 5 mg/m^3 time-weighted average.

Section III – Physical/Chemical Characteristics

Boiling Point: Decomposes **Specific Gravity (H20 = 1)** 0.86 **Vapor Pressure (mm Hg.) 0, (solid)**
Melting Point: Decomposes **Solubility in Water:** Slight: (Estimated, less than 2 grams/100mL)
Appearance and Odor: Fine, white fibrous particles from treatment of bleached cellulose from wood or cotton. Fibrous, odorless material packaged in labeled plastic bag.

Section IV – Fire and Explosion Hazard Data

Flash Point : NA	**Extinguishing Media**: No restrictions.
LEL: NA	**Special Fire Fighting Proc**edures: None
UEL: NA	**Unusual Fire and Explosion Hazards**: None reported

Section V – Reactivity Data

Stable under normal ambient room conditions. Incompatibility: Fire retardant properties likely will be reduced or eliminated by the following: contamination with oils, fuels, other flammable/combustible materials, or strong oxidizers. **Hazardous Decomposition or byproducts:** Expected decomposition products include carbon monoxide and carbon dioxide. Hazardous polymerization Will NOT Occur.

Section VI – Health Hazard Data for Cellulose

LD50: >5 gm/kg Oral – rat LC50: >5800 mg/m^3/4H inhalation – rat
No unusual emergency procedures are indicated
Carcinogenicity: Not listed by NTP, or IARC as a carcinogen. Not listed by OSHA as a carcinogen.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Lightly wet spilled material with water to prevent dusting and transfer to leak proof container. Seal container, attach appropriate labels, and dispose of according to Federal, State, and local regulations.
Waste Disposal Method: Handle according to applicable waste regulations.
Precautions to taken in Handling and Storing:

- Store in tightly closed containers in cool, dry, protected area
- Isolate from incompatible substances.

Section VIII – Control Measures

Engineering Controls: If dust is generated, provide local exhaust ventilation to control airborne levels below the ACGIH TLV-TWA exposure limit for Particulates Not Otherwise Classified of 10 mg/m3 for inhalable particles and 3 mg/m3 of respirable particles.
Personal Protective Equipment: Under normal manufacturer's specified application conditions, no respiratory protection should be necessary. However, if airborne dust is present, use a NIOSH approved particulate respirator. Under emergency firefighting, responders should wear appropriate protective fire fighting equipment. Protective gloves and eye protection are optional for this product, but should be worn if other corrosive substances are present in the workplace. Wear usual personal protective gear appropriate to work environment.
Work/Hygienic Practices:: Wash face and hands before eating. Shower and change clothing daily.

Manufacturer Disclaimer: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of this product are therefore assumed by the user. Nothing is intended as a recommendation for uses, which infringe valid patents, or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

MATERIAL SAFETY DATA SHEET

SK2000

Section 1-MATERIAL IDENTIFICATION AND USE

MANUFACTURER'S NAME ..... International Cellulose Corporation

MANUFACTURER'S ADDRESS ..... 12315 Robin Blvd.
Houston, TX 77045

EMERGENCY PHONE NUMBER ..... (713) 433-6701

INFORMATION PHONE NUMBER ..... (713) 433-6701

SUPPLIER IDENTIFIER ..... International Cellulose Corporation

SUPPLIER'S ADDRESS ..... 12315 Robin Blvd.
Houston, TX 77045

SUPPLIER EMERGENCY PHONE NUMBER ..... (713) 433-6701

PRODUCT IDENTIFIER SK2000

PRODUCT USE ..... Adhesive Binder

Section 2-COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	Concentration	CAS Registry #
Poly Vinyl Alcohol	≤ 5% by wt.	9002-89-5
Copolymer	≤ 50% by wt.	[redacted]

Section 3-PHYSICAL DATA FOR PRODUCT

PHYSICAL STATE ..... LIQUID
ODOUR AND APPEARANCE ..... Slightly sweet, viscous clear
SPECIFIC GRAVITY 1.08
VAPOUR PRESSURE ..... Same as water
VAPOUR DENSITY (air = 1) ..... Same as water
EVAPORATION RATE ..... Same as water
BOILING POINT ..... 212°C
FREEZING POINT ..... Not established
pH 4.0-9.0
WEIGHT per GALLON ..... 9.1 lbs.
SOLUBILITY IN WATER ..... Dispersible

Section 4-FIRE AND EXPLOSION HAZARD OF PRODUCT

CONDITIONS OF FLAMMABILITY ..... NOT FLAMMABLE IN LIQUID STATE
MEANS OF EXTINCTION ..... CO_2, foam, dry chemical powder, water.
FLASH POINT & METHOD OF DETERMINATION ..... NOT FLAMMABLE
UPPER EXPLOSION LIMIT (% BY VOL) ..... NOT APPLICABLE
LOWER EXPLOSION LIMIT (% BY VOL) ..... NOT APPLICABLE
AUTO-IGNITION TEMPERATURE ..... NO DATA
FLAMMABILITY CLASSIFICATION ..... NOT FLAMMABLE
HAZARDOUS COMBUSTION PRODUCTS ..... Carbon monoxide/dioxide
EXPLOSION DATA ..... Pressure build-up possible in closed containers when heated. Water spray may be used to cool containers.
SENSITIVITY TO STATIC DISCHARGE ..... NO DATA.
SPECIAL FIRE FIGHTING PROCEDURE ..... Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Section 5-REACTIVITY DATA

CHEMICAL STABILITY	STABLE
INCOMPATIBLE MATERIALS	NOT ESTABLISHED
CONDITIONS OF REACTIVITY	Hazardous polymerization will not occur
HAZARDOUS DECOMPOSITION PRODUCTS	NOT ESTABLISHED

Section 6-TOXICOLOGICAL PROPERTIES OF PRODUCT

ROUTES OF ENTRY:

SKIN CONTACT	Prolonged or repeated contact with liquid product may cause irritation.
SKIN ABSORPTION	Not absorbed through the skin.
EYE	Eye contact with liquid product may cause irritation.
INHALATION	Not anticipated route of exposure.
INGESTION	Not anticipated route of exposure. Small amounts are not anticipated to be harmful.
ACUTE OVER EXPOSURE EFFECTS	SEE ROUTES OF ENTRY.
CHRONIC OVER EXPOSURE EFFECTS	Major health problems from long-term exposure are not expected.
EXPOSURE LIMITS	NONE
IRRITANCY OF PRODUCT	Not irritating
SENSITIZATION TO MATERIAL	NO DATA
CARCINOGENICITY, REPRODUCTIVE EFFECTS	NONE
TERATOGENICITY, MUTAGENICITY	NONE
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	NO DATA

Section 7-PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT	Not normally required. Where adequate ventilation is not available, NIOSH-approved respirators should be used.
EYE/FACE PROTECTION	Safety glasses with side shields or goggles if splashing of liquid products into eyes is a potential exposure.
SKIN PROTECTION	Prevent prolonged or repeated contact by using rubber gloves and appropriate protective clothing.
SPECIFIC ENGINEERING CONTROLS	General dilution ventilation.
LEAK AND SPILL PROCEDURES	Dike if necessary. Wear rubber gloves and safety glasses. Keep material out of local waterways and sewers, storm drains and soil. Comply with all applicable governmental regulations on spill reporting and handling of disposal waste.
WASTE DISPOSAL	Consult local federal, state, and local regulatory agencies before disposal. NOTE: Empty containers are subject to proper waste disposal.
HANDLING PROCEDURES AND EQUIPMENT	Wear appropriate protective equipment when working with this liquid product.
STORAGE REQUIREMENTS	Avoid temperature extremes in storage. Store in ambient temperatures.
SHIPPING INFORMATION	Not regulated. Use DOT proper shipping name.

Section 8-FIRST AID MEASURES

SPECIFIC FIRST AID PROCEDURES

INHALATION: ..... Remove subject to fresh air.

EYE CONTACT: ..... Flush the eyes with running water for 15 minutes. Continue flushing the eyes until irritation disappears. Obtain medical attention if irritation persists.

SKIN CONTACT: ..... Wash affected area with soap and water. Obtain medical attention if irritation persists. Wash clothing before reuse.

INGESTION: ..... DO NOT INDUCE VOMITING. If conscious give one glass of milk or water. Never give liquids to an unconscious person. Obtain medical attention immediately.

Section 9-REGULATORY INFORMATION

Toxic Substances Control Act (TSCA) ..... Section 8(b) Inventory status. This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

SARA Title III ..... Section 313. This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of Section 3131 of the Title III of the Superfund Amendments And Reauthorization Act of 1986 (SARA) and 40 CFR part 372

California Proposition 65 ..... This product is not subject to California Proposition 65 notification requirements.

RCRA.. ..... Product not tested as a waste. Not believed to be a hazardous waste based on our knowledge of the product and its raw materials.

Carcinogens ..... Under OSHA, ACGON, NTP, IARC. This product contains no carcinogens in concentrations of 0.1 percent or greater.

Section 10-Ecological Data

Aquatic Toxicity ..... Not Established.

Section 11-Additional Information

In storage, monomer vapor will migrate from the emulsion and establish equilibrium between the headspace in the storage container and the liquid emulsion. Levels in excess of acceptable exposures can accumulate in non-vented spaces above the emulsion. All procedures appropriate for a confined space entry should be completed prior to performing any work in a bulk storage tank (>500 gal).

HMIS Rating

Health 1
Flammability 0
Reactivity 0
Protective Equipment ..... B

Manufacturer Disclaimer: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of this product are therefore assumed by the user. Nothing is intended as a recommendation for uses, which infringe valid patents, or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.