

MATERIAL SAFETY DATA SHEET

Page : 1 of 8
Date Prepared : January 1, 2005
MSDS Number : SK-2000 Additive

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PO/Code Number	
Product Identifier	SK-2000 Additive
General Use	Adhesive Binder
Product Description	Viscous Water Reducible Clear Adhesive
Trade Name/Synonyms	SK-2000 Additive

MANUFACTURER

International Cellulose Corporation
12315 Robin Blvd.
Houston Tx. 77045

PHONE CONTACT

800-444-1252
713-433-6701

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	Wt. %	CAS Registry Number
P(AA/NaHSO ₃)	47-49	66019-18-9
Residual Monomerethylene Copolymer	<0.02	Not Required
Water	51-53	7732-18-5

Polymeric description(s) presented in this section are the U.S> Toxic Substances Control Act (TSCA) definitions.

See Section 8. Exposure Controls / Personal Protection

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure

Inhalation
Eye Contact
Skin Contact

Inhalation

Inhalation of vapor or mist can cause the following:
-headache – nausea – irritation of nose, throat and lungs

Eye Contact

Direct contact with material can cause the following:
-slight irritation

Skin Contact

Material can cause the following:
-slight skin irritation

Delayed Effects

Prolonged or repeated overexposure of dusts or mists can cause the following:
-lung irritation

4. FIRST AID MEASURES

Inhalation

Move subject to fresh air.

Eye Contact

Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.

Skin Contact

Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

Ingestion

If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point..... Noncombustible
Auto-ignition Temperature..... Not Applicable
Lower Explosive Limit..... Not Applicable
Upper Explosive Limit..... Not Applicable

Unusual Hazards

Material can splatter above 100C/212°F. Dried product can burn.

Extinguishing Agents

Use extinguishing media appropriate for surrounding fire.

Personal Protective Equipment

As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection

Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8. Exposure Controls/Personal Protection, for recommendations. IF exposed to material during clean-up operations. see SECTION 4, First Aid Measures, for actions to follow

Procedures

Keep spectators away. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquid and solid diking material to separate containers for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal water sewers and open bodies of water.

7. HANDLING AND STORAGE

Storage Conditions

Keep from freezing, material stability may be affected. The minimum recommended storage temperature for this material is 1C/34F. The maximum recommended storage temperatures for this material is 49C/120F.

Handling Procedures

Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8. Exposure Controls/Personal Protection, for types of ventilation required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Information

<u>No.</u>	<u>CAS REG NO</u>	<u>WEIGHT (%)</u>
1.	P(AA/NaHSO3).....	66019-18-9 47-49

2.	Residual Monomer.....	Not Required	<0.02
3.	Water.....	7732-18-5	51-53

Page : 4 of 8
Date Prepared : January 1, 2005
MSDS : SK-2000 Additive

Comp No.	Units	TWA	STEL	OSHA		ACGIH	
				TWA	STEL	TWA	STEL
1		None	None	None	None	None	None
2		a	a	a	a	a	a
3		None	None	None	None	None	None
Product:	mg/m ³	0.1b	None	None	None	None	None

a Not Regulated
 b Respirable Fraction

The CAS # of the polymer component(s) disclosed above provided information about the major monomers used to manufacture the product. Trace levels of these monomers may be present.

Respiratory Protection

A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in "Exposure Limit Information". For dust or mist up to 5 times the TWA/TLV's listed in "exposure Limit Information", wear a MSHA/NIOSH approved (or equivalent) disposable half-mask dust/mist respirator.

Eye Protection

Use chemical splash goggles (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

Hand Protection

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection:
 - Neoprene

Engineering Controls (Ventilation)

Use local exhaust ventilation with a minimum capture velocity of 150 ft/min. (0.75 m/sec.) at the point of dust or mist evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use and maintenance of exhaust systems.

Other Protective Equipment

Facilities storing or utilizing this material should be equipped with an eyewash facility.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance.....	Clear to hazy
Color.....	Colorless
State.....	Liquid
Odor Characteristics.....	Mild odor
pH.....	3.2 to 4.0
Viscosity.....	400 to 1400 CPS
Specific Gravity (Water = 1).....	1,24
Vapor Density (Air = 1).....	<1 Water
Vapor Pressure	17mm Hg @ 20°C/68°F Water
Melting Point.....	0°C/32°F Water
Boiling Point.....	100°C/212°F Water
Solubility in Water.....	Completely Soluble
Percent Volatility.....	51 to 53 % Water
Evaporation Rate (BAc = 1).....	<1 Water

See SECTION 5: Fire Fighting Measures

10. STABILITY AND REACTIVITY

Instability

This material is considered stable. However, avoid temperatures above 230C/446F, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.

Hazardous Decomposition Products

Thermal decomposition may yield acrylic monomers.

Hazardous Polymerization

Product will not undergo polymerization.

Incompatibility

There are no known materials which are incompatible with this product.

11. TOXICOLOGICAL INFORMATION

Acute Data

Oral LD50 – rat: >5000 mg/kg
Dermal LD50 – rabbit: >50000 mg/kg

Eye Irritation – rabbit: no irritation
Skin Irritation – rabbit: slight irritation

Page : 6 of 8
Date Prepared : January 1, 2005
MSDS : SK-2000 Additive

Subchronic /Chronic Data

A 13 week inhalation study in rats of a compositionally similar polycarboxylate material showed inflammatory effects in the lung at concentrations of 5 mg/m³ for 6 hours per day. 5 days per week. The no-observed-effect-level for this response was judged to be 1mg/m³. Maintaining airborne concentrations within the recommended exposure limit is not expected to produce adverse effects within the lung.

Mutagenicity Data

Ames mutagenicity: Non-mutagenic

Sensitization Data

Skin sensitization – guinea pig: Not a sensitizer

12. ECOLOGICAL INFORMATION

Environmental Toxicity

Daphnia magna, 48 Hour EC50 Static: >1000 mg/l
Bluegill sunfish (Lepomis macrochirus), 96 Hour LC50 Static: >1000 mg/l
Rainbow trout (Salmo gairdner), 96 Hour LC50 Static: 700 mg/l
Zebra fish (Danio/Brachydanio rerio), 96-hour LC50: >200 mg/l
Fathead minnow (Pimephaies promelas), 96 Hour LC50: >10000 mg/l
Algae, 96 Hour EC10: 180 mg/l

13. DISPOSAL CONSIDERATIONS

Procedure

Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

US DOT Hazard Class NONREGULATED

Page : 7 of 8
Date Prepared : January 1, 2005
MSDS : SK-2000 Additive

15. REGULATORY INFORMATION

Workplace Classification

This product as supplied is non-hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200). Under processing conditions it may become OSHA hazardous due to the potential for overexposure to dusts or mists. (See SECTION 8. Exposure Controls/Personal Protection).

This product as supplied is not a “controlled product” under the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA TITLE 3: SECTION 311/312 Categorizations (40CFR 370)

This product is not a hazardous chemical under 29CFR 1910,1200, and therefore is not covered by Title III of SARA.

SARA TITLE 3: Section 313 Information (40CFR 372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

CERCLA Information (40CFR 302.4)

Releases of this material to air, land or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

Waste Classification

When a decision is made to discard this material as supplied, it does not meet RCRA’s characteristic definition of ignitability, corrosivity or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC0, however, has not been evaluated by the Toxicity Characteristic Leaching Procedures (TCLP).

United States

All components of this product are in compliance with the inventory listing requirements of the U.S.> Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16. OTHER INFORMATION

Hazard Rating		Scale
Toxicity	1	4=EXTREME
Fire	0	3=HIGH
Reactivity	0	2=MODERATE
Special -		1=SLIGHT
		0=INSIGNIFICANT

Ratings are based on International Cellulose guidelines, and are intended for internal use.

Page : 8 of 8
Date Prepared : January 1, 2005
MSDS : SK-2000 Additive

HMIS Hazard Ratings

HMIS Hazard Ratings: HEALTH = 1, FLAMMABILITY = 0, REACTIVITY = 0.

PERSONAL PROTECTION: See Section 8, Exposure

Controls/Personal Protection for recommended

Handling of material as supplied; check with

supervisor for your actual use condition.

SCALE: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Severe

* = Chronic Effects (See Section 3, Hazards Identification)

ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = Occupational Safety and Health Administration

TLV = Threshold Limit Value

PEL = Permissible Exposure Limit

TWA = Time Weighted Average

STEL = Short-Term Exposure Limit

BAC = Butyl acetate

Bar denotes a revision from previous MSDS in this area.

The information contained herein relates on to the specific material identified. International Cellulose Corporation believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warrant, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. International Cellulose Corporation urges person receiving his information to make their own determination as to the information's suitability and completeness for their particular application.