

# SAFETY DATA SHEET

1. Identification

Other means of identification

Product identifier Andisil®1770 Silane DISTRIBUTED BY: R.E. CARROLL, INC.

1570 NORTH OLDEN AVENUE EXT. EWING N.J. 08638-3204 USA

SDS number Andisil® 1770 609-695-6211/800-257-9365 Orders@RECarroll.com

Product code 8276

Recommended use Crosslinker/adhesion promoter

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Company name AB Specialty Silicones LLC Address 3725 Hawthorn Court

Waukegan, IL 60087

US

**Telephone** General Assistance: 847-599-7765

E-mail info@Andisil.com

Contact person Health & Safety Manager

Emergency phone number 24 hour: CHEMTREC 800-424-9300

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazardsSensitization, skinCategory 1

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** May cause an allergic skin reaction.

**Precautionary statement** 

Prevention Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of the

workplace. Wear protective gloves.

Response If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention. Specific treatment (see this label). Wash contaminated clothing before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** Not applicable.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
2-(3,4-epoxycyclohexyl)ethyltri ethoxysilane	10217-34-2	> 85
Ethanol	64-17-5	< 10

### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

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Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed Indication of immediate May cause an allergic skin reaction. Dermatitis. Rash.

medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters Fire fighting

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Be aware of potential for surfaces to become slippery. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

The product is immiscible with water and will sediment in water systems.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store in a cool, dry, well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	

### **US. ACGIH Threshold Limit Values**

Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm

Andisil® 1770 SDS US Components **Type** Value TWA Ethanol (CAS 64-17-5) 1900 mg/m3 1000 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate chemical resistant gloves. **Hand protection** 

Skin protection

Other Wear appropriate chemical resistant clothing.

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

# 9. Physical and chemical properties

Appearance

Liquid. Physical state **Form** Liquid. Water white. Color

Odor Characteristic ester odor.

Not available. Odor threshold Not available. Melting point/freezing point Not determined.

Initial boiling point and boiling

range

Not available.

> 219.2 °F (> 104.0 °C) Pensky-Martens Closed Cup Flash point

**Evaporation rate** < 1 (n-Butyl acetate = 1)

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

**Explosive limit - lower (%)** Not available. Explosive limit - upper (%) Not available.

< 1 mm Hg (at 25 °C) Vapor pressure

> 1 (at 25 °C) Vapor density Relative density 1.01 (at 25 °C)

Solubility(ies)

Solubility (water) Insoluble Not available. **Partition coefficient** 

(n-octanol/water)

Not available. **Auto-ignition temperature** 

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Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

Percent volatile Not determined.

## 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

Not known.

Avoid temperatures exceeding the flash point. Avoid contact with water and moisture. Contact with Conditions to avoid

incompatible materials.

Strong oxidizing agents. Water, moisture. Incompatible materials **Hazardous decomposition** Carbon dioxide. Carbon monoxide. Silicone.

products

## 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. Skin contact May cause an allergic skin reaction.

Direct contact with eyes may cause temporary irritation. Eye contact

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Not classified. **Acute toxicity** 

Components **Species Test Results** 

Ethanol (CAS 64-17-5)

Acute

Inhalation

LC50 Rat 20000 ppm, 10 Hours

Oral

LD50 Rat 6.2 g/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation. Serious eve damage/eve

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

**NTP Report on Carcinogens** 

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -Not classified.

repeated exposure

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Not available. **Aspiration hazard** 

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results** 

Ethanol (CAS 64-17-5)

Aquatic

Crustacea EC50 Water flea (Daphnia obtusa) 10100 - 11200 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 13480 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

Ethanol (CAS 64-17-5) -0.31

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not available. Annex II of MARPOL 73/78 and

the IBC Code

### 15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations** 

Standard, 29 CFR 1910.1200.

All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Ethanol (CAS 64-17-5) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

> Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US state regulations**

### **US. Massachusetts RTK - Substance List**

Ethanol (CAS 64-17-5)

#### US. New Jersey Worker and Community Right-to-Know Act

Ethanol (CAS 64-17-5)

### US. Pennsylvania Worker and Community Right-to-Know Law

Ethanol (CAS 64-17-5)

#### **US. Rhode Island RTK**

Ethanol (CAS 64-17-5)

#### **US. California Proposition 65**

This product contains the following chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm:

None known.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date29-April-2014Revision date1-3-17Version #04HMIS® ratingsHealth: 2

Flammability: 1 Physical hazard: 1

**Disclaimer** This information is provided without warranty. The information is believed to be correct. This

information should be used to make an independent determination of the methods to safeguard workers and the environment. The information in the sheet was written based on the best

knowledge and experience currently available.

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).