Andisil Material Safety Data Sheet

I. PRODUCT AND COMPANY IDENTIFICATION

Name On Label Manufacturer

Andisil 186 Silane AB Specialty Silicones 3790 Sunset Avenue Waukegan, IL 60087

Phone: 908 273-8015

Emergency Phone: 888 234-1395

DISTRIBUTED BY R. E. CARROLL, INC. 1570 NORTH OLDEN AVENUE TRENTON, NJ 08638-3204 609-695-6211 / 800-257-9365

CHEMTREC EMERGENCY PHONE NUMBER

800 424-9300

HAZARDOUS INGREDIENT		CAS#	WT%	OSHA PEL (mg/m³)	ACGIH (mg/m³)
2-(3,4-Epoxycyclohexyl)eth	nyltrimethoxysilane	3388-04-3	≥ 98.0%	NE -	NE

III. HAZARDS IDENTIFICATION	
Appearance and Odor	Colorless Liquid
DANGER	
POTENTIAL HEALTH EFFECTS:	
Ingestion	Harmful if swallowed.
• Skin Contact	Causes skin irritation. Harmful if absorbed through the skin.
• Inhalation	May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.
Eye Contact	Causes eye irritation.

IV. FIRST AID MEASURES	
General Information	Take persons to a safe place. Observe self-protection for first aid. Always seek medical advice in the event of contact with this substance.
Ingestion	If patient is fully conscious, give two glasses of water. Induce vomiting. Seek medical attention immediately.
Skin Contact	Remove contaminated clothes at once. Wash off with plenty of water or water and soap immediately for 10-15minutes. In serious cases, use emergency shower immediately. Seek medical advice immediately and clearly identify substance.
Inhalation	Move the exposed person to fresh air at once. Keep the patient calm. Protect against loss of body heat. If breathing stops, administer artificial respiration. Seek medical advice immediately and clearly identify substance.
Eye Contact	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-30min while holding the eyelid(s) open. If contact lens is present, DO NOT delays irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as available. Do not interrupt flushing. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto the face. Seek medical advice immediately and clearly identify substance. Continue to bathe eyes during transport to medical practitioner.

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Notes To Physician

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-30min while holding the eyelid(s) open. If contact lens is present, DO NOT delays irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as available. Do not interrupt flushing. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto the face. Seek medical advice immediately and clearly identify substance. Continue to bathe eyes during transport to medical practitioner.

gency plan. Use water spray to keep fire exposed containers cool-

Use respiratory protection independent of recirculated air.

	V. FIRE-FIGHTING MEASURES		
	FLAMMABLE PROPERTIES		
٠.	- Flash Point	112 °C	CONTRACTOR OF THE PROPERTY OF
	Auto-ignition	Not Determined	
	Flammable Limits in Air Upper (%)	Not Available	
	Flammable Limits in Air Lower (%)	Not Available	
	Extinguishing Media	Dry chemical, foam, carbon dioxide	
	Fire Fighting Measures	Self-contained breathing apparatus and protective be-worn in fighting large fires involving chemical	e-clothing-should
_	GENERATOR NO. N STATE OF THE PROPERTY OF TH	be-worn in fighting large fires involving chemica need to evacuate or isolate the area according to	ils. Determine the your local-emer-

VI. ACCIDENTAL RELEASE MEASURES	garaga garaga kalangan di k
Personal Precautions	Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists or vapours. If material is released indicate risk of slipping.
Environmental Precautions	Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material. Retain contaminated water/extinguishing water.
Methods For Cleaning Up	Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner.
Other Information	Eliminate all sources of ignition.
WARNING	Where material spills may be slippery

VII. HANDLING AND STORAGE

Handling

- Precautions For Safe Handling
- Ensure adequate ventilation. Keep away from incompatible substances, such as moisture. Spilled substance increases risk of slipping
- Precautions Against Fire And Explosion

Special Protective Equipment for Fire Fighting

Product can separate methanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and unclean containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

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Storage

Conditions For Storage Rooms And Vessels

Advice For Storage Of Incompatible

Materials

Further Information For Storage

Make sure there is no possibility of entering the ground.

Not applicable

Protect against moisture. Store in original container only, Keep container tightly closed and store in a cool, well ventilated place.

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Respiratory Protection If used under normal operating conditions and with adequate ven-

tilation, respiratory protection is not required

Ventilation Local exhaust: Normal air flow

__SPECIAL/MECHANICAL/OTHER: Not applicable -

Protective Gloves Protective gloves made of butyl rubber, Gloves suitable for up to

60 minutes use.

Eye Protection ----Tight fitting protective goggles.

Skin Protection ----Protective clothing.

Other Protective Clothing or Equipment Rubber apron; Facility needs to be equipped with an eye-wash

fountain and safety shower that is easily accessible; Eye bath

Safety shower

Exposure To The Environment Limited And Prevent-material from entering surface waters and soil.

Controlled Note: When heated to temperatures above 150°C (300°F) in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose, and throat. Safe handling conditions may be maintained by keeping vapor conditions within the OSHA permissible exposure limit for formaldehyde. These precautions are for room temperature handling. Use at elevated tempera-

ture or aerosol/spray applications may require added precautions.

Hazardous decomposition products formed under fire conditions. -

IX. PHYSICAL AND CHEMICAL PROPERTIES

-Vapor Pressure (20 °C) (mm Hg) no data available Vapor Density (AIR = 1) no data available

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Melting Point < -70 °C

Boiling Point 310 °C at 760mmHg

Physical State Colorless to transparent liquid

Density/Relative Density 1.07g/cm3 at 25 °C

Molecular Weight 246.38

Solubility in Water Reacts with water

X. STABILITY AND REACTIVITY

Stability Stable

General Information If stored and handled in accordance with standard industrial prac-

Carbon oxides, silicon oxides.

tices no hazardous reactions are known.

Hazardous Thermal Decomposition/Combustion

Products

Incompatibility (Materials to avoid) Strong oxidizing agents, Amines, Bases.

Conditions to Avoid Moisture.

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XI. TOXICOLOGICAL INFORMATION Route of Exposure	Inhalatio	ion,							
Signs and Symptoms of Overexposure	Мау сац	May cause an allergic skin reaction.							
Acute Toxicity									
Chemical Name	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)					
2-(3,4-Epoxycyclohexyl) ethyltrimethoxysilane	3388-04-3	8,528mg/kg	6,716 mg/kg						
• Inhalation	No data	available							
• Ingestion	No data	available		•					
• Skin	No data	available							
• Eyes	No data	available		21 + 22 y summer marrier areas					
Chronic Toxicity		<u>.</u>							
• Inhalation	May be	harmful if inhaled.	Causes respiratory	tract irritation.					
• Ingestion	May be	harmful if swallow	red.						
• Skin	May be_	harmful if absorbe	d through skin. Cau	ıses skin irritation.					
• Eyes	Causes o	eye irritation.							
Other Health Hazard Information	- No data	available.							

-	XII. ECOLOGICAL INFORMATION			
7	Aquatic and Terrestrial Ecotoxicity	No data available		
	Persistence and Degradability Water	No data available		
-	Bioaccumulative Potential Bioaccumulation	No bioaccumulation potenti	al	
	Mobility in Soil	No data available		
	Additional Environmental Information	No specific information		

	XIII. DISPOSAL CONSIDERATIONS
	MaterialDispose of according to regulations by incineration in a special
2	waste incinerator. Observe local/state/federal regulations.
-	Unclean Packaging Completely discharge containers (no tear drops, no powder rest,
	scraped carefully). Containers may be recycled or re-used. Ob-
	serve local/state/federal regulations.

XIV. TRANSPORT INFORMATION				
DOT Classification	This product is not regulate	d by DOT	 · ^	
IMDG Classification	This product is not regulate	ed by IMDG	 	
ICAO Classification	This product is not regulate	d by ICAO		

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XV. REGULATORY INFORMATION	
U.S. Federal Regulations	National and local regulations must be observed. For information or labelling please refer to section 2 of this document.
Other International Regulations	Listed on or in accordance with the following inventories
• IECSC	China
• PICCS	Philippines
• ECL	Korea
• AICS	Australia
• DSL	Canada
• TSCA	USA
• ENCS	Tille Japan -

-	XVI. OTHER INFORMATION	=
	Other Information NFPA Profile Health - 2	-
	Flammability – 1	
74.	Reactivity-1-	D-same
	Disclaimer The data provided in this MSDS is offered in good faith as typical values and not as	247
	product specifications. No warranty, either expressed or implied, is hereby made. Before using, user shall determine the suitability of the product for his intended use.	
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Data Approved by: TRH Date: June-2013