

MATERIAL SAFETY DATA SHEET (MSDS)

Silane SCA-E87F

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY	
1.1	Production SCA-E87F
1.2	Physical form: Liquid
1.3	Color: Colorless
1.4	Chemical Family: Organofunctional Silane Ester
	HMIS Flammability 1 Reactivity 1 Health 2
	NFPA Flammability 1 Reactivity 1 Health 2
1.5	Manufacturer: Nanjing Capatue Chemical Co., Ltd
1.6	Address: No. 20 JiangJun Avenue, Jiangning Development Zone, Nanjing, Jiangsu Province, P. R. China P.C: 211100
1.7	Telephone: (+86-25)-86371193 Fax: (0086-25) 86371191-0
1.8	24Hour Emergency Telephone: (0086-25)-86371192
1.9	Connect with: Anhuanbu

2. HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW	
WARNING! May cause allergic skin reaction.	
Form : liquid color : Light colored odor: Ester	
<u>POTENTIAL HEALTH EFFECTS</u>	
Ingestion	May cause the following effects: - dizziness, faintness, drowsiness, decreased awareness and responsiveness, euphoria, abdominal discomfort, nausea, vomiting, staggering gait, lack of coordination and coma Long-term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis. Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute the fetal alcohol syndrome. These include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders, and small size head.
Skin	May cause slight irritation. May cause the following effects: - itching - local redness Prolonged and/or repeated contact may result in: - sensitization - allergic skin reaction
Inhalation	May cause the following effects: - headache - nausea - vomiting - dizziness - drowsiness
Eyes	May cause minimal discomfort. May cause the following effects: - excess redness of the conjunctivae
Medical conditions aggravated	Repeated exposure to ethanol may aggravate liver injury produced from

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Subchronic (target organ)	other causes. None known.
Chronic effects/ carcinogenicity	This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.
Routes of exposure	Dermal

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
67-17-5	< 1 %	Ethanol
2897-60-1	> 97 %	3-Glycidoxypropylmethyl-diethoxysilane

4. FIRST AID MEASURES

4.1 Eye contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
4.2 Skin:	Wash off with soap and water. Get medical attention if symptoms occur. If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.
4.3 Inhalation:	Do NOT induce vomiting. If victim is conscious, give 2-4 glasses of water.
4.4 Ingestion:	Never give anything by mouth to an unconscious person. Obtain medical attention.
4.5 Note to physician	Treatment is symptomatic and supportive.

5. FIRE FIGHTING MEASURES

Flash Point:	121°C; 250 °F
Ignition temperature	No data available
Flammable limits in air –lower (%)	Not available
Flammable limits in air –upper (%)	Not available
Sensitivity to mechanical impact	No
Sensitivity to static discharge	Sensitivity to static discharge is not expected.
Extinguishing Media:	All standard extinguishing agents are suitable. Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.
Special fire fighting procedures	

6. ACCIDENTAL RELEASE MEASURES

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Action to be taken if material is released or spilled

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

7. HANDLING AND STORAGE

Handling and storage precautions

Avoid contact with skin and eyes. Keep away from children. Attention: Not for injection into humans

Storage

Keep container closed. Store in original container.

Further information on storage conditions

No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Eyewash stations; Showers; Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.
Respiratory protection	May be needed if product is used in a confined or poorly ventilated area. If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations.
Protective gloves	Impermeable or chemical resistant gloves.
Eye and face protection	Safety glasses.
Other protective equipment	Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

Component	CAS RN	Source	Value
Ethanol	64-17-5	ACGIH, TWA	1,000 ppm
Ethanol	64-17-5	OSHA Z1, PEL	1,000 ppm; 1,900 mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid
Color:	Colorless
Odor:	Ester
Boiling Point- C & F:	290 °C; 554 °F
Vapor pressure (20C) (MM HG):	<1

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Evaporation Rate & Reference:	<1
Freezing point	< 0 °C; < 32 °F
Voc excl.H2O & exempts(G/L)	6
Vapor density(air=1):	Heavier than air
Volatile organic content (VOL):	Not determined
Specific gravity(water=1)	0.98 g/cm3
Solubility in water (20 °C):	Reacts slowly

Note: The above information is not intended for use in preparing product specifications. Contact Capatue Chemical before writing specifications.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable
Hazardous Polymerization:	Will not occur
Hazardous thermal decomposition/ combustion products	Oxides of carbon. Oxides of silicon. Burning can produce the following combustion products:; Oxides of carbon.; Oxides of silicon.; Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.; Acute overexposure to the products of combustion may result in irritation of the respiratory tract.
Incompatibility (Materials to Avoid):	Strong oxidizing agents. Bases. Aqueous acids. Reacts with water or moisture to form: Ethanol.
Conditions to avoid :	None known.

11. Toxicological information

ACUTE ORAL

LD50; Species: Rat.; > 2,000 mg/kg; Remarks: Very low order of toxicity

ACUTE DERMAL

LD50; Species: Rabbit.; > 2,000 mg/kg; Remarks: Very low order of toxicity

GENETIC TOXICITY IN VITRO

Test Type: Ames bacterial assay ; Result: Positive

GENETIC TOXICITY IN VIVO

Test Type: Micronucleus test (mouse) ; Result: Negative. Method: OECD-Guideline 474

SENSITIZATION

Test Type: Skin; Species: guinea pigs; Result: elicited a delayed contact hypersensitivity response.

Method: OECD-Guideline No. 406.

SKIN IRRITATION

Species: Rabbit.; Result: Slight irritation

EYE IRRITATION

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Species: Rabbit. ; Result: Minimal irritation

OTHER EFFECTS OF OVEREXPOSURE

No adverse effects anticipated from available information.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY

All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this Safety Data Sheet.

13. DISPOSAL CONSIDERATIONS

Disposal method

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

Further information: The product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15. REGULATORY INFORMATION

Inventories

Korea existing chemical y (Positive listing)

Inventory (KECI)

Japan inventory of existing & new chemical substances (ENCS) y (Positive listing)

EU list existing chemical substances y (Positive listing)

Australia inventory of chemical substances (AICS) y (Positive listing)

Philippines inventory of chemical and chemical substances (PICCS) n (Negative listing)

TSCA list y (Positive listing)

China inventory of existing chemical substances y (Positive listing)

Canada DSL Inventory y (Positive listing)

US Regulatory Information

SARA(311,312)HAZARD CLASS

Acute health hazard , chronic health hazard

SARA(313)CHEMICALS

CALIFORNIA PROPOSITION 65

This product does not contain any chemicals known to state of California to cause cancer, birth or any other reproductive defects.

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16. OTHER INFORMATION

Prepared by: Nanjing Capatue Chemical Co., Ltd

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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