

1. IDE	NTIFICATION OF THE SUBS	TANCE AND OF THE COMPANY		
1.1	Production	SCA-A20T		
1.2	Physical form:	Liquid		
1.3	Color:	Colorless		
1.4	Chemical Family:	Organofunctional Silane Ester		
	HMIS	Flammability 1 Reactivity 2 Health 3		
	NFPA	Flammability 1 Reactivity 2 Health 3		
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:	(0086-25)-86371193 Fax: (0086-25) 86371191-0		
1.8	24Hour Emergency Telephone:	(0086-25)-86371192		
1.9	Connect with:	Anhuanbu		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER! Harmful or fatal if swallowed. Causes eye burns. May cause asthma with possible long-term lung damage. May cause eye damage and blindness if swallowed. May cause allergic skin reaction. Cross-sensitization to other amines may occur. May cause dizziness and drowsiness. May cause heart muscle damage. May cause liver and kidney damage.

Form: liquid color: Clear, straw odor: Amine-like

POTENTIAL HEALTH EFFECTS

INGESTION

This product hydrolyzes in the stomach to form methanol. M ethanol may cause nausea, abdominal pain, vomiting, headache, dizziness, shortness of breath, weakness, fatigue, leg cramps, restlessness, confusion, drunken behavior, visual disturbances, drowsiness, coma, and death. There may be a delay of several hours between swallowing methanol and the onset of signs and symptoms. The effects observed are in part due to acidosis and partially to cerebral edema. Visual effects include blurred vision, diplopia, changes in color perception, restriction of visual fields, complete blindness. Ingestion of moderate quantities of methanol also produces metabolic acidosis. Onset of symptoms may be delayed up to 48 hours. 60-200 ml methanol is fatal dose for most adults. Ingestion of as little as 10 ml

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	methanol has caused blindness. With massive	
	overdoses, liver, kidney and heart muscle injuries have	
	been described.	
Skin	May cause minor irritation. May cause the following	
	effects: slight local redness	
Inhalation	Short -term harmful health effects are not expected	
	from vapor generated at ambient temperature.	
	However, this material is capable of forming methanol	
	if hydrolyzed . methanol vapor may cause dizziness,	
	drowsiness, disturbances of vision, and tingling,	
	numbness, and shooting pains in the hands and	
	forearms.	
yes Causes severe irritation. Causes the following		
	discomfort-pain-excess blinking- tear	
	production-marked excess redness of the	
	conjunctivae-swelling of the conjunctivae-chemical	
	burns of the eye.	
Medical conditions aggravated	May aggravate : an existing kidney disease- an existing	
	liver disease.	
Subchronic (target organ)	Liver, kidney, heart, lungs, respiratory system.	
Chronic effects/ carcinogenicity	This product or one of its ingredients present at 0.1% or	
	more is NOT listed as a carcinogen or suspected	
	more is NOT listed as a carcinogen or suspected	
	carcinogen by NTP, IARC,or OSHA.	

3. COMPOSITION/INFORMATION ON INGREDIENTS			
CAS Number	AS Number		
67-56-1	<1 %	Methanol	
3069-29-2	>97%	3-A min oethyl amin opropyl methyl dimethoxy silane	
	1-3%	Unidentified impurities	

4. FIR	4. FIRST AID MEASURES	
4.1	Eye contact:	Immediately flush eyes with water and continue washing for at least 15
		minutes. Obtain medical attention immediately.
4.2	Skin:	Wash off immediately with soap and water while removing all contaminated
		clothes and shoes. Wash contaminated clothing before re-use. Obtain medical
		attention.



4.3	Inhalation:	Remove to fresh air. Artificial respiration and /or oxygen may be necessary.
		Obtain medical attention immediately.
4.4	Ingestion:	If patient is fully conscious, give two glasses of water. Induce
		vomiting .Obtain medical attention immediately.
4.5	Note to	Product may hydrolyze upon contact with body fluids in the gastrointestinal
	physician	tract to produce additional methanol; therefore, consider the signs/symptoms
		of methanol poisoning and also observe the known latency period of several
		days.

5. FIRE FIGHTING MEASURES

Flash Point Method: Pensky- Martens closed cup ASTM D93

Flammable limits in air –lower(%)

Flammable limits in air –upper (%)

Not available

Not available

Sensitivity to mechanical impact No

Sensitivity to static dischargeSensitivity to static discharge is not expected.Extinguishing Media:All standard extinguishing agents are suitable.Special fire fighting proceduresFirefighters must wear NIOSH/MSHA approved

positive pressure self-contained breathing apparatus with full face mask and full protective

clothing.

Fire Fighting precautions Do not direct a solid stream of water or foam

into hot ,burning pools: this may cause frothing

and increase fire intensity

6. ACCIDENTAL RELEASE MEASURES

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

Do not swallow. Do not get in eyes. Do not breathe vapor. Avoid contact with skin. Keep away from children. Attention: Not for injection into humans.

Other Precautions:

Danger! Harmful or fatal if swallowed due to methanol production in the stomach.

Storage



Keep container closed. Store in original container.

Further information on storage conditions

No data available

Methanol

. EXPOSURE CO	ONTROLS / PE	RSONAL PROTECTION		
Engineering controls		Use only in an area equipped with a safety shower; Eye wash bottle		
		with pure water; General (mechanical) room ventilation is		
		expected to be satisfactory if handled at low temperatures or in		
		covered equipment; Special, local ventilation is needed at points		
		where vapors can be expected to escape to the workplace air.		
Respiratory protection		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 Sa		Safety glasses.		
Other protective eq	uipment	Safety shoes, Protective suit.		
Exposure Guideline	es			
Component	CAS RN	Source	Value	
Methanol	67-56-1	ACGIH, TWA	200 ppm	
Methanol	67-56-1	ACGIH, STEL	250 ppm	
Methanol	67-56-1	ACGIH, SKIN_DES	Can be absorbed through	
			the skin.	

67-56-1

Physical Form: Liquid

Color: colorless

Odor: Amine -like

OSHA Z1, PEL

200 ppm; 260 mg/m3

Boiling Point(760mmHg) °C: 256 **Vapor pressure (20C) (MM H** <1

G):

Evaporation Rate & Reference: <1

 $\begin{tabular}{lll} \textbf{Freezing point} & & & & & & & & & & & & \\ \textbf{Melting point} & & & & & & & & & & \\ \textbf{Melting point} & & & & & & & & & & \\ \textbf{Density:} & & & & & & & & & & \\ \textbf{0.9800 g/cm3} & & & & & & & \\ \end{tabular}$

Vapor density(air=1): Heavier than air



Volatile organic content (VO Not determined

L):

Solubility in water (20 °C): Reacts rapidly

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/ Burning can produce the following combustion products;

combustion products Oxides of Carbon; Oxides of Silicon; Oxides of nitrogen;

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):

Reaction with water or other aqueous media is rapid and exothermic. The addition of small amounts of water (in the

range of 2-15%) can produce an exothermic reaction which generates alcohol to the extent that the resulting solution can reach a temperature which exceeds the flash point of the new

solution. If a water solution is desired, add the product to

water, and not vice versa.

Conditions to avoid : None known.

11. Toxicological information

Other effects of overexposure:

Inhalation of ethyleneamines may cause sensitization of the respiratory tract and the development of an asthmatic reaction on further exposure. There may be susceptible individuals who develop long- term hyperreactive airways, asthma and other respiratory injury following exposure to extremely low concentrations of ethyleneamines, even below the irritation threshold. Other respiratory irritants may produce a reaction in individuals whose airways have become hyperreactive. Note: since there are no definitive screening methods available to identify susceptible individuals,we suggest that people with asthma, or other longstanding respiratory conditions(for example, chronic bronchitis, emphysema, etc.) should be protected from any potential exposure to ethyleneamines. Skin contact may cause sensitization and an allergic skin reaction. Cross-sensitization may occur by skin contact with this material and other amines.

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

Waste Disposal Methods: Disposal should make in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

14.1 DOT Road Shipment Information

Proper Shipping Name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. Hazard Technical Name 3-Aminoethylaminopropylmethyldimethoxysilane

Hazard Class 8
UN-No 3267
Packaging Group II

Hazard Label(s) CORROSIVE

14.2 Ocean Shipment (IMDG)

Proper Shipping Name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. Hazard Technical Name 3-Aminoethylaminopropylmethyldimethoxysilane

Hazard Class 8
UN-No 3267
Packaging Group II

Hazard Label(s) CORROSIVE

Marine Pollutant Not Applicable

14.3 Air Shipment (IATA)

Proper Shipping Name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. Hazard Technical Name 3-Aminoethylaminopropylmethyldimethoxysilane

Hazard Class 8 UN-No 3267 Packaging Group II

Hazard Label(s) CORROSIVE

Call Capatue Chemical if additional information is required.

15. REGULATORY INFORMATION

Inventories

Korea existing chemical y(Positive listing)

Inventory (KECI)

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

substances (ENCS)



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) y(Positive listing)

TSCA list y(Positive listing)

China inventory of existing chemical substances y(Positive listing)

Canada DSL Inventory y(Positive listing)
Canada NDSL Inventory n(Negative listing)

US Regulatory Information

SARA(311,312)HAZARD CLASS

Acute health hazard, chronic health hazard, reactivity 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.

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.